NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
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August 31, 2023

Gina Thomas
Crosman Corporation
7629 State Route 5 & 20
Bloomfield, New York 14469

Re: Site Management
Periodic Review Report
Crosman Corporation Site
Site No.: 835012
East Bloomfield (T), Ontario (C)

Dear Mrs. Thomas:

The New York State Department of Environmental Conservation (Department) has completed a review of your Periodic Review Report (PRR) and IC/EC Certification for following period: June 15, 2022, through June 15, 2023. The Department conditionally approves the PRR with the following modifications and clarifications.

1. The Department requests that the groundwater sampling log form to be updated to present the following information:
    - The date of deployment for the passive diffusion bags (PDBs) at the site.
    - The depth at which the PDBs are placed.
    - The dimensions of the PDBs such as the length.

    A revised groundwater monitoring sample log will need to be submitted for Department review and approval. Upon approval the revised log will be placed in the site's Site Management Plan.

2. Section 2.3; Inspections of Engineering Controls; Page 2: It is indicated in this section that the SSDS was inspected monthly and is documented on the forms presented in Appendix B. A review of Appendix B indicates that there was no inspection completed in April and November of 2022 and the system was inspected twice during the months of June and December. The PRR does not provide any details as to why the system was not inspected April and November of 2022 and why the system was inspected twice during June and December of 2022. In future PRR submittals, the Department requests that all deviations for the approved inspection frequencies and the basis for the deviation are documented in the in subsequent PRR.

3. Section 3.1.1; System Operation; Page 3: It is indicated in the PRR that on May 25, 2023, the sub-slab depressurization system was shut down for non-routine maintenance. The PRR must provide additional detail such as, but not limited to, the following:
    - The system shut down and re-start was conducted in accordance with the Sub-slab Depressurization System OM&M Plan.
    - Who conducted the repair of the system.
    - Documentation of the repair such as receipts, make and model of part, etc.
    - If any modifications to the system's design.
    - If appropriate system checks and logs completed after the re-start of the system.

    For all future PRR submittals in which SSDS shutdowns and re-starts occurred, the appropriate documentation must be provided in the subsequent PRR submittal.

4. The PRR does not indicate if the data collected during the reporting period was supplied electronically and submitted to the NYSDEC EQuIS database. In all future PRR submittals it must be noted if the data collected during the certification period was submitted and accepted to EQuIS.

With respect to the request for modification of the groundwater monitoring frequency, the Department declines the request to modify the frequency from semi-annually to annually at this time. The groundwater sampling method was changed from bailers to PDBs and approved by the Department on December 2, 2022. Additional sampling events will need to be completed utilizing PDBs before the Department, with concurrence from NYSDOH project manager, will consider modification of the sampling frequency. As noted above, the Department needs additional information collected during the PDB groundwater sampling events to ensure the groundwater sampling results are representative of the site's current groundwater conditions.

Your next PRR is due on July 15, 2024. You will receive a courtesy reminder letter and updated certification form 45-days prior to the due date. Regardless of receipt or not of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions or concerns regarding this letter or need further assistance with the Site, please feel free to contact me at (585) 226-5349 or via e-mail Joshua.ramsey@dec.ny.gov.

Sincerely,

Joshua J. Ramsey
Project Manager

ec:
William Popham (Arcadis)
Joseph Molina (Arcadis)
Aaron Richardson (Arcadis)
Thomas Walsh (Hiscock & Barclay)
Justin Deming (NYSDOH)
Anthony Perretta (NYSDOH)
Dudley Loew (NYSDEC)
David Pratt (NYSDEC)
Charlotte Theobald (NYSDEC)

Crosman Corporation and MacAndrews & Forbes Holdings, Inc.

Periodic Review Report for 2022-2023

Crosman Corporation Site
East Bloomfield, New York

July 2023 (Revised August 2023)

Periodic Review Report 2022-2023

Crosman Corporation Site, East Bloomfield, New York

July 2023 (Revised August 2023)

Prepared By:
Arcadis of New York, Inc.
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Prepared For:
Crosman Corporation and MacAndrews & Forbes Holdings, Inc.

Our Ref:
30005202

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Certification

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspections of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and engineering control employed at this site is unchanged from the date the controls was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the Declaration of Restrictions and Covenants;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Joseph Molina III, P.E., of Arcadis of New York, Inc., am certifying as Crosman’s Designated Site Representative.

JOSEPH MOLINA III, P.E.

DATE: AUGUST 1, 2023

1 Introduction/Background

On behalf of Crosman Corporation and MacAndrews & Forbes Holdings, Inc. (collectively, Crosman), Arcadis of New York, Inc. (Arcadis) has prepared this Periodic Review Report for 2022-2023 (PRR) to summarize the remedial activities conducted between January 1, 2022 and June 15, 2023 at the Crosman Corporation Site, designated site #835012, located in East Bloomfield, New York (Site). Previous regulatory documents, including the 1993 Administrative Order on Consent (New York State Department of Environmental Conservation [NYSDEC] 1993); 1997 Record of Decision (NYSDEC 1997); and 1998 Administrative Order on Consent (NYSDEC 1998), as well as separate requests for a vapor intrusion investigation (NYSDEC 2012) and a sub-slab depressurization system (SSDS) (NYSDEC 2014), have required Site activities, including the past installation and former operation of a groundwater pump and treatment system, the past installation and former operation of a soil vapor extraction (SVE) system, groundwater monitoring, and installation and operation of an SSDS at the Site. Termination of the groundwater pump and treat system (which operated from 1995 to 1999) and the SVE system (which operated in the east side source area from 1998 to 2001) were previously approved by the NYSDEC.

The site currently operates under the approved Site Management Plan (SMP) and Declaration of Covenants and Restrictions (Deed Restriction). The April 2021 SMP (Arcadis 2021b) was approved by the NYSDEC on August 2, 2021, and the Deed Restriction was executed on May 4, 2020. Once the SMP and Deed Restriction were in place, the NYSDEC reclassified the Site to a Class 4 site in June 2022. As defined in 6 New York Codes of Rules and Regulations Part 375-2.7(b)(3)(iv), "*a class "4" site is one that has been properly closed but that requires continued site management consisting of operation, maintenance and monitoring.*"

Activities conducted during the current reporting period include semi-annual groundwater monitoring and continued operation of the SSDS, which are described herein. In addition, Crosman has continued the operation of pumping well PW-1 as part of its manufacturing activities.

2 Institutional Controls

The Institutional Controls (ICs) established for the Site are embodied in the Deed Restriction, which was executed on May 4, 2020 and recorded with the Ontario County Clerk on May 13, 2020 at Book 01450, Page 0324, of Deeds (Appendix A). The Deed Restriction includes restrictions on the usage of the property to commercial and industrial uses; compliance with the approved SMP; and conducting routine inspections of ICs and Engineering Controls (ECs).

2.1 Property Usage

The Site continued to be used for industrial purposes during the current reporting period (between January 1, 2022 and June 15, 2023).

2.2 Deed Restriction

The Deed Restriction includes a metes and bounds description of the restricted property, as measured in the instrument survey prepared by Fisher Associates, P.E., L.S. on October 27, 2018. The Deed Restriction was reviewed and approved by the NYSDEC before execution and is attached to the SMP.

2.3 Inspections of Engineering Controls

As further described in Section 3, ECs at the Site include operation of the SSDS and maintenance of the concrete floor, which serves as a cover system over remaining soil contamination at two locations. This includes one location on the western side of the building designated as “Area 1 Affected by SSDS Engineering Control” and a second location on the eastern side of the building designated as “Area 2 Affected by SSDS Engineering Control”. All ECs remained in effect during the current reporting period. The SSDS was inspected on a monthly basis, as documented on the inspection forms included in Appendix B. The concrete cover system was inspected as part of the annual site-wide inspection on October 26, 2022, as documented on the Site Inspection Form included in Appendix C.

3 Engineering Controls

In accordance with the NYSDEC's requests and/or requirements, continued operation of the SSDS, as well as maintenance of the concrete floor cover system, were the ECs at the Site between January 1, 2022 and June 15, 2023.

3.1 Sub-Slab Depressurization System

As detailed in the Construction Completion Report (Arcadis 2017a), the SSDS was installed and operational at the Site starting in July 2016.

3.1.1 System Operation

During the current reporting period (between January 1, 2022 and June 15, 2023), the only downtime experienced by the system was limited to relatively short periods related to routine operation and maintenance activities, one non-routine maintenance event, and short periods where the system was down due to power outages. The non-routine maintenance event occurred on May 25, 2023 when the system's original blower, due to excessive wear, was replaced with a new blower. The system was offline for approximately 4 hours to complete the blower replacement. The system has been operational 96% of the time for the current reporting period, and other than power outages, no issues that potentially could cause extended downtime were identified.

The treatment portion of the SSDS consists of four 1,000-pound granular-activated carbon (GAC) units and is designed with the ability to pull extracted soil vapor through each GAC unit in series. The vapors being pulled through the system are monitored on a monthly basis at sample points between each GAC unit to monitor for breakthrough. After initially operating with all four GAC units online, the lead GAC unit (GAC #1) was taken offline on February 22, 2017 after breakthrough was observed at the sample point between GAC #1 and GAC #2. The system operated with three GAC units in series for 2018. The next GAC unit (GAC #2) was taken offline on January 31, 2019 after breakthrough was observed at the sample point between GAC #2 and GAC #3. The system operated with two GAC units in series for the remainder of 2019 and all of 2020.

As reported in previous PRRs, in September 2020, the overall system, including documented influent and effluent concentrations, were re-evaluated and re-modeled using the AERSCREEN modeling system. The modeling output indicated that the system could direct discharge without treatment through GAC and still meet Division of Air Resources-1 short-term and long-term guideline concentrations. This information was provided to the NYSDEC on September 21, 2020 and agreed to by the NYSDEC in an October 9, 2020 email that carbon treatment could be removed from the SSDS (Appendix D). However, while no longer required, the GAC #3 and GAC #4 units remained online as an added safety measure throughout the current reporting period.

3.1.2 System Effectiveness

During the current reporting period, monitoring of the SSDS was conducted on a monthly basis, at a minimum. Monthly monitoring was performed to document the effectiveness of the system and included recording sub-slab vacuum pressures and collecting and analyzing soil vapor samples collected throughout the system.

3.1.2.1 Sub-Slab Vacuum Monitoring

Arcadis recorded instantaneous sub-slab differential pressure readings on a monthly basis from the area surrounding the two sub-slab depressurization sump points. With the system operating, instantaneous sub-slab differential pressures were measured using micromanometers capable of measuring to the nearest 0.001 inch of water column at vacuum monitoring points (VMPs) installed by Arcadis. Figure 1 shows the VMP locations. Table 1 summarizes the results and shows that vacuum is being observed throughout the target depressurization area.

3.1.2.2 System Vapor Sampling

Arcadis collected soil vapor samples from the influent (both individual SSDS extraction points and the combined influent) and effluent of the SSDS, with the system operating. Grab samples were collected using laboratory-provided 1-liter Summa canisters. The Summa canisters were submitted to Eurofins TestAmerica Laboratories in Burlington, Vermont and analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency Method TO-15. Table 2 summarizes the results and shows that chlorinated VOCs, primarily trichloroethene (TCE), continue to be effectively removed through the SSDS.

As evidenced by the calculations presented in Table 3, TCE mass continues to be effectively removed by the SSDS. The SSDS removed 4.2 kilograms of TCE during the current reporting period and a total 205.1 kilograms since it became operational.

The System Monitoring Log; Performance Monitoring Log; and Monthly Operation, Maintenance, and Monitoring Checklist completed each month for the SSDS are included in Appendix B, and the laboratory analytical reports for each sampling event are included in Appendix E.

3.2 Operation of Pumping Well PW-1

Although not an EC for the Site, pumping well PW-1 continues to be operated to supply non-contact cooling water to Crosman's manufacturing processes. PW-1 has been demonstrated to maintain hydraulic control over the Site, even during periods of extended downtime, thereby containing the plume of groundwater contamination at the Site. Manufacturing operations at the Site continue to utilize the water generated by PW-1 for non-contact cooling water in its manufacturing processes.

Groundwater elevation contours were recorded during the three groundwater monitoring events (April and October 2022, and April 2023), with each event continuing to show a depression around pumping well PW-1, providing continuing evidence that the long-term history of pumping at this location continues to positively influence groundwater dynamics at the Site.

There were no significant periods of downtime during the current reporting period. The current and continued planned operation of PW-1 at the Site continues to provide control of the groundwater plume for the foreseeable future.

Pumping well PW-1 will continue to be monitored as part of the long-term groundwater monitoring for the Site, and this PRR and future PRRs will include a report on its continued operation and effectiveness in providing control of the groundwater plume.

3.3 Concrete Cover System

As discussed in the SMP, the concrete floor serves as a cover system over remaining soil contamination identified at the western end of the building and around the SSDS extraction point on the eastern side of the facility. The concrete comprising the cover system is identified on the survey on the western side of the building as “Area 1 Affected by SSDS Engineering Control” and on the eastern side of the building as “Area 2 Affected by SSDS Engineering Control”. During the annual site-wide inspection conducted on October 26, 2022, the concrete floor cover system in this area was inspected and found to be acceptable. The Site Inspection Form is included as Appendix C.

4 Additional Site Reporting

4.1 Groundwater Sampling

Routine groundwater sampling was conducted semi-annually during the current reporting period, with sampling events conducted on April 12, 2022, October 26, 2022, and April 7, 2023. [Note: Due to issues accessing the well on October 26, 2022, the PW-1 sample was collected on November 3, 2022.] As documented in the Semiannual Groundwater Monitoring and Reporting letter reports (Arcadis 2022a, 2022b, 2023), the results of all routine sampling events continued to show that the plume is not migrating offsite. Results of the recent groundwater sampling events, as well as the results of previous groundwater sampling events, are provided in Table 4 and shown on Figure 2, with the laboratory analytical reports and sampling forms for each event included in Appendix F.

As initially proposed to the NYSDEC in a November 23, 2022 email, and agreed to by the NYSDEC in a December 2, 2022 email (Appendix D), groundwater sampling at the site was switched from bailers to passive diffusion bag (PDB) samplers. The new PDB samplers were deployed at monitoring wells MW-3A, MW-4, MW-5, MW-13, MW-14, MW-15 MW-17, MW-18, MW-19, and MW-20 on March 9, 2023, and utilized for the April 7, 2023 sampling event.

4.2 State Pollutant Discharge Elimination System Monitoring and Reporting

The Crosman facility continued to perform monthly State Pollutant Discharge Elimination System (SPDES) monitoring of Outfall Number 001. In accordance with the SPDES permit (#NY-0103039), monthly sampling included collecting a sample from the outfall and analyzing for VOCs, temperature, and pH. SPDES samples collected during the current reporting period were below the method detection limit of 2 parts per billion TCE, and therefore, were well below the discharge limits of 10 parts per billion TCE, as well as below 90 degrees Fahrenheit (temperature) and within the pH range of 6.0 to 9.0 standard units. Copies of the Discharge Monitoring Reports for the current reporting period are included in Appendix G.

5 Summary and Recommendations

Monitoring (and sampling) of the SSDS continues to show that TCE concentrations in sub-slab soil vapor continue to be effectively removed through the SSDS. Sampling of groundwater at the Site during the current reporting period continued to show an overall stable to decreasing historical trend in contaminant concentrations, with monitoring at the Site perimeter continuing to show that the contaminant plume is not migrating offsite.

As documented within this report, and with the Institutional and Engineering Controls Certification Form (Appendix H), the inspections conducted and sample results collected during the current reporting period show that the ICs and ECs in place for the Site are in compliance with and are effectively meeting the remedial action objectives established for the Site.

It is recommended that the ICs and ECs in place during the current reporting period be maintained going forward. Due to the long history of stable to decreasing contaminant concentrations in groundwater, it is recommended that groundwater sampling frequency be reduced from semi-annually to annually, with sampling conducted at monitoring wells MW-3A, MW-4, MW-5, MW-13, MW-14, MW-15, MW-17, MW-18, MW-19, and MW-20, and pumping well PW-1 conducted in April of each year.

6 References

Arcadis. 2017a. Construction Completion Report. Crosman Corporation. January 27.

Arcadis. 2017b. Semiannual Groundwater Monitoring Report. Crosman Corporation. December 15.

Arcadis. 2021a. Periodic Review Report for 2020. Crosman Corporation. February 11.

Arcadis. 2021b. Site Management Plan. Crosman Corporation. April 13.

Arcadis. 2022a. Semiannual Groundwater Monitoring Report. Crosman Corporation. May 10.

Arcadis. 2022b. Semiannual Groundwater Monitoring Report. Crosman Corporation. December 19.

Arcadis. 2023. Semiannual Groundwater Monitoring Report. Crosman Corporation. May 19.

NYSDEC. 1993. Administration Order on Consent. Index #B8-0404-92-04. October 1993.

NYSDEC. 1997. Record of Decision. March 25, 1997.

NYSDEC. 1998. Administration Order on Consent. Index #B8-0404-92-04. October 1993.

NYSDEC. 2012. Comment Letter to Soil Vapor Intrusion Evaluation. November 28.

NYSDEC. 2014. Comment Letter to West-side Soil Boring Assessment September 2014 and Draft On-Site Soil Vapor Intrusion Assessment Results March 2014. October 22.

NYSDEC. 2021. Approval of the Site Management Plan. Crosman Corporation.

Tables

Table 1
Sub-Slab Vacuum Monitoring
Periodic Review Report
Crosman Corporation
East Bloomfield, New York

Date	Time	Sub-Slab Differential Pressure (in.wc)											
		SDS-1 Area						SDS-2 Area					
		VMP-1	VMP-2	VMP-3	VMP-4	VMP-5	VMP-6	VMP-7	VMP-8	VMP-9	VMP-10	VMP-11	VMP-12
1/31/2022	9:00	-9.141	-0.010	-0.750	-0.022	-0.040	-0.012	-0.022	-0.406	-0.042	-0.039	-0.218	NA[1]
2/14/2022	8:30	-9.088	-0.019	-0.783	-0.020	-0.051	-0.032	-0.014	-0.367	-0.026	-0.024	-0.164	NA[1]
3/25/2022	9:00	-8.953	-0.024	-0.814	-0.018	-0.045	-0.019	-0.001	-0.394	-0.037	-0.023	-0.118	NA[1]
5/5/2022	9:00	-9.547	-0.017	-0.818	-0.018	-0.050	-0.030	-0.009	-0.391	-0.044	-0.032	-0.179	NA[1]
6/3/2022	9:15	-8.516	-0.028	-0.788	-0.016	-0.047	-0.059	-0.010	-0.391	-0.051	-0.032	-0.168	NA[1]
6/16/2022	7:45	-9.487	-0.031	-0.790	-0.016	-0.050	-0.058	-0.007	-0.420	-0.077	-0.045	-0.190	NA[1]
7/15/2022	9:00	-9.312	-0.031	-0.850	-0.018	-0.051	-0.062	-0.011	-0.447	-0.069	-0.047	-0.202	NA[1]
8/26/2022	9:00	-9.467	-0.040	-0.482	-0.019	-0.053	-0.064	-0.011	-0.428	-0.077	-0.048	-0.194	NA[1]
9/30/2022	9:00	-8.945	-0.027	-0.882	-0.020	-0.053	-0.039	-0.008	-0.362	-0.035	-0.026	-0.145	NA[1]
10/26/2022	9:00	-8.836	-0.039	-0.858	-0.018	-0.053	-0.056	-0.009	-0.431	-0.078	NA[2]	-0.177	NA[1]
12/2/2022	13:00	-7.786	-0.021	-0.914	-0.020	-0.049	-0.011	-0.007	-0.386	-0.049	-0.034	NA[2]	NA[1]
12/27/2022	9:00	-9.191	-0.015	-0.917	-0.021	-0.050	-0.015	-0.015	-0.356	-0.026	-0.036	NA[2]	NA[1]
1/27/2023	10:00	-9.315	-0.025	-0.940	-0.021	-0.055	-0.041	-0.016	-0.400	-0.058	-0.047	NA[2]	NA[1]
2/24/2023	9:00	-9.501	-0.030	-0.960	-0.022	-0.061	-0.062	-0.020	-0.382	-0.048	-0.048	-0.306	NA[1]
3/9/2023	11:30	-9.571	-0.036	-0.920	-0.021	-0.058	-0.044	-0.009	-0.396	-0.043	-0.032	-0.216	NA[1]
4/7/2023	12:30	-9.167	-0.033	-0.914	-0.021	-0.056	-0.068	-0.008	-0.314	-0.024	-0.027	-0.194	NA[1]
5/11/2023	11:00	-9.531	-0.041	-0.919	-0.021	-0.058	-0.076	-0.010	-0.444	-0.060	-0.047	-0.271	NA[1]
6/5/2023	9:00	-7.487	-0.025	-0.763	-0.018	-0.043	-0.042	-0.009	-0.374	-0.058	-0.043	NA[2]	NA[1]

Notes:

in.wc = inches of water column

SDS = sub-slab depressurization sump

VMP = vacuum monitoring point

NA[1] = no data collected; sample point was abandoned

NA[2] = no data collected; sample point was inaccessible

Table 2
Soil Vapor Sampling Results
Periodic Review Report
Crosman Corporation
East Bloomfield, New York

Sample ID	SDS-1			SDS-2			Pre-VPGAC-101		
Location	SDS-1 Influent			SDS-2 Influent			Combined Influent		
Sample Collection Date	6/16/2022	12/27/2022	5/11/2023	6/16/2022	12/27/2022	5/11/2023	6/16/2022	12/27/2022	5/11/2023
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,1,1-Trichloroethane	55 U	22 U	27 U	27 U	13 U	22 U	27 U	11 U	22 U
1,1,2,2-Tetrachloroethane	69 U	27 U	34 U	34 U	16 U	28 U	34 U	14 U	28 U
1,1-Dichloroethane	40 U	12 J	20 U	20 U	9.7 U	16 U	20 U	8.1 U	16 U
1,1-Dichloroethene	6.9 U	3.9	3.5 U	3.5 U	1.7 U	2.8 U	3.5 U	1.4 U	2.8 U
cis-1,2-Dichloroethene	11	13	5 U	190	81	180	160	56	180
trans-1,2-Dichloroethene	40 U	3.6 J	20 U	20 U	9.5 U	16 U	20 U	7.9 U	16 U
1,2-Dichloroethene, Total	79 U	17 J	40 U	190	79	180	160	56	180
Acetone	590 U	240 U	300 U	300 U	140 U	240 U	300 U	120 U	240 U
Benzene	32 U	13 U	3.9 J	16 U	7.7 U	13 U	16 U	6.4 U	13 U
Bromoform	100 U	41 U	52 U	52 U	25 U	42 U	52 U	21 U	42 U
Carbon tetrachloride	11 U	4.4 U	5.5 U	5.5 U	2.6 U	4.4 U	5.5 U	2.2 U	4.4 U
Chlorobenzene	46 U	18 U	23 U	23 U	11 U	19 U	23 U	9.2 U	19 U
m,p-Xylene	110 U	43 U	54 U	54 U	26 U	44 U	54 U	22 U	44 U
Methylene Chloride	87 U	35 U	43 U	43 U	21 U	35 U	43 U	17 U	35 U
Tetrachloroethene	650	58	13 J	26 J	8 J	15 J	200	20	15 J
Toluene	38 U	15 U	6.4 J B	19 U	9 U	5.3 J B	19 U	7.5 U	5.3 J B
Trichloroethene	14,000 D	15,000 D	7,600 D	11,000 D	6,100 D	7,100 D	13,000 D	7,800 D	7,100 D
Vinyl chloride	10 U	3.9 J	5 U	5 U	2.4 U	4 U	5 U	2 U	4 U
Xylene, o-	43 U	17 U	22 U	22 U	10 U	4.6 J	22 U	8.7 U	4.6 J
Total VOCs [(3)]	**14,661**	**15,094**	**7,623**	**11,216**	**6,189**	**7,305**	**13,360**	**7,876**	**7,305**

Notes:
1) Samples analyzed for VOCs by USEPA Method TO-15.
2) All concentrations are in µg/m^3.
3) Total VOCs shown include estimated concentrations (e.g., concentrations with "J" laboratory qualifiers).
4) Sampling performed semi-annually.

B = compound was found in the blank and sample
ID = identification
J = Result is less than the reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.
NA = not analyzed (Summa canister lost vacuum, sample was not analyzed)
SDS = sub-slab depressurization sump
U = Indicates the analyte was analyzed for but not detected.
µg/m^3 = microgram per cubic meter
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
VPGAC = vapor-phase granular-activated carbon

Table 2
Soil Vapor Sampling Results
Periodic Review Report
Crosman Corporation
East Bloomfield, New York

Sample ID	Pre-VPGAC-104			Post-Dilution-EFF			Post-Blower/ Effluent		
Location	Between VPGAC 103 and VPGAC 104			Between VPGAC 104 and Blower			Effluent		
Sample Collection Date	6/16/2022	12/27/2022	5/11/2023	6/16/2022	12/27/2022	5/11/2023	6/16/2022	12/27/2022	5/11/2023
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,1,1-Trichloroethane	55 U	11 U	25 U	11 U	NA	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	69 U	14 U	32 U	14 U	NA	14 U	14 U	14 U	14 U
1,1-Dichloroethane	40 U	8.1 U	19 U	8.1 U	NA	8.1 U	8.1 U	8.1 U	8.1 U
1,1-Dichloroethene	6.9 U	1.4 U	3.2 U	1.4 U	NA	1.4 U	1.4 U	1.4 U	1.4 U
cis-1,2-Dichloroethene	190	68	89	210	NA	100	180	100	140
trans-1,2-Dichloroethene	40 U	7.9 U	18 U	7.9 U	NA	7.9 U	7.9 U	7.9 U	7.9 U
1,2-Dichloroethene, Total	190	67	91	210	NA	99	180	100	140
Acetone	590 U	120 U	270 U	120 U	NA	120 U	120 U	120 U	120 U
Benzene	32 U	6.4 U	15 U	6.4 U	NA	6.4 U	6.4 U	6.4 U	6.4 U
Bromoform	100 U	21 U	48 U	21 U	NA	21 U	21 U	21 U	21 U
Carbon tetrachloride	11 U	2.2 U	5.1 U	2.2 U	NA	2.2 U	2.2 U	2.2 U	2.2 U
Chlorobenzene	46 U	9.2 U	21 U	9.2 U	NA	9.2 U	9.2 U	9.2 U	9.2 U
m,p-Xylene	110 U	22 U	50 U	22 U	NA	22 U	22 U	22 U	22 U
Methylene Chloride	87 U	17 U	40 U	17 U	NA	17 U	17 U	17 U	17 U
Tetrachloroethene	68 U	14 U	31 U	14 U	NA	14 U	14 U	14 U	14 U
Toluene	38 U	6.9 J	17 U	7.5 U	NA	7.5 U	7.5 U	4.8 J	7.5 U
Trichloroethene	14,000 D	6,100 D	7,900 D	16	NA	290	7.5	62	410
Vinyl chloride	10 U	2 U	4.6 U	2 U	NA	2 U	2 U	2 U	2 U
Xylene, o-	43 U	8.7 U	20 U	8.7 U	NA	8.7 U	8.7 U	8.7 U	8.7 U
Total VOCs [(3)]	**14,190**	**6,175**	**7,991**	**226**	NA	**389**	**188**	**167**	**550**

Notes:
1) Samples analyzed for VOCs by USEPA Method TO-15.
2) All concentrations are in µg/m^3.
3) Total VOCs shown include estimated concentrations (e.g., concentrations with "J" laboratory qualifiers).
4) Sampling performed semi-annually.

B = compound was found in the blank and sample
ID = identification
J = Result is less than the reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.
NA = not analyzed (Summa canister lost vacuum, sample was not analyzed)
SDS = sub-slab depressurization sump
U = Indicates the analyte was analyzed for but not detected.
µg/m^3 = microgram per cubic meter
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
VPGAC = vapor-phase granular-activated carbon

Table 3
VOC Mass Removal Estimate
Periodic Review Report
Crosman Corporation
East Bloomfield, New York

Sample Date	Period[a]				Influent VOCs (µg/m³)[c]	Flow Rate Used for Mass Removal Rate Calculation (scfm)[d]			Mass Removal Rate at End of Period (grams/day)	Mass Removal Rate Assigned for Period (grams/day)[e]	Mass Removed Per Period (kg)	Cumulative Mass Removed Since Startup (kg)[f]
	Start Date	End Date	Duration (days)	Uptime (%)[b]		SDS-1	SDS-2	Combined Influent				
6/16/2022	12/29/21	6/16/22	169	97.3%	13,360	8.9	13.8	23	12.4	11.5	1.9	202.8
12/27/2022	6/16/22	12/27/22	194	94.3%	7,876	5.1	10.3	15	5.0	8.7	1.6	204.4
5/11/2023	12/27/22	5/11/23	135	97.0%	7,305	6.8	12.5	19	5.8	5.4	0.7	205.1

Notes:

[a] Time periods shown for each sample date begin at previous sample date and end at current sample date.

[b] Uptime percentage calculated using system runtime readings from system's human machine interface.

[c] Sum of VOCs are based on system vapor sample laboratory analytical results from respective sample date. Combined influent laboratory analytical data have been used for mass removal rate calculations.

[d] Flow rates utilized for mass removal rate calculations obtained by measuring air velocity from the individual extraction points using a handheld anemometer.

[e] Mass removal rates have been calculated for each sampling date using laboratory analytical data and system flow rates. Representative mass removal rates have been assigned to each time period (i.e., between sampling dates) by averaging the respective mass removal rates from the start and end of the time period.

[f] Cumulative mass removed through end of 2021 reporting period was 200.9 kg.

- = not applicable

% = percent

kg = kilogram

scfm = standard cubic feet per minute

SDS = sub-slab depressurization sump

µg/m^3 = microgram per cubic meter

VOC = volatile organic compound

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-3A									
Date Sampled	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21	12-Apr-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	280	250	350	260	190	130	220 D	200	220	46
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-4									
Date Sampled	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16	19-Apr-17	17-Oct-17	3-Apr-18
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2 - Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-4									
Date Sampled	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21	12-Apr-22	26-Oct-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2 - Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-5									
Date Sampled	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16	19-Apr-17	17-Oct-17	3-Apr-18
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	9.6	-	8.8	17	15	14	9.4	8.8	9.6	11
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	19	7.9	8.7	5.7	6.4	-	6.1	5.0	17	11
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-5									
Date Sampled	**26-Oct-18**	**23-Apr-19**	**31-Oct-19**	**21-Apr-20**	**28-Oct-20**	**30-Apr-21**	**25-Oct-21**	**12-Apr-22**	**26-Oct-22**	**7-Apr-23**
Volatiles										
Acetone	12	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	8.0	9.5	9.4	8.5	8.3	6.7	21	20	13	22
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	11	9.5	9.1	7.8	6.8	6.7	-	-	5.3	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-13									
Date Sampled	**8-Apr-13**	**9-Apr-14**	**29-Oct-14**	**22-Apr-15**	**21-Oct-15**	**18-Apr-16**	**26-Oct-16**	**19-Apr-17**	**17-Oct-17**	**3-Apr-18**
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	19.2	-	-	-	29	-	13	16	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	381	310	190	180	400 D	130	96	250 D	110	51
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-13									
Date Sampled	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21	12-Apr-22	26-Oct-22	7-Apr-23
Volatiles										
Acetone	16	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	15	-	-	19	32	-	7.6	5.1	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	140	34	58	340 D	29	-	140	130	160	96
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-14									
Date Sampled	**16-Oct-13**	**9-Apr-14**	**29-Oct-14**	**22-Apr-15**	**21-Oct-15**	**18-Apr-16**	**26-Oct-16**	**19-Apr-17**	**17-Oct-17**	**3-Apr-18**
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-14									
Date Sampled	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21	12-Apr-22	26-Oct-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	15	-	7.3	11	6.6	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-15									
Date Sampled	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16	19-Apr-17	17-Oct-17	3-Apr-18
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 12.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-15									
Date Sampled	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21	12-Apr-22	26-Oct-22	7-Apr-23
Volatiles										
Acetone	15	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 12.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-17									
Date Sampled	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21	12-Apr-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	15	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	440	400	340	500 D	470	440	440	350	390	230
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 12.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-18									
Date Sampled	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21	12-Apr-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Notes on page 12.	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 18.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-19									
Date Sampled	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21	12-Apr-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Notes on page 12.	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 18.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	PW-1									
Date Sampled	16-Oct-13	9-Apr-14	29-Oct-14	27-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16	19-Apr-17	3-Apr-18	26-Oct-18
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	140	120	110	69	98	79	92	41	14	22
Notes on page 12.	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 18.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	PW-1								
Date Sampled	**23-Apr-19**	**31-Oct-19**	**21-Apr-20**	**28-Oct-20**	**30-Apr-21**	**25-Oct-21**	**12-Apr-22**	**26-Oct-22**	**7-Apr-23**
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	15	15	14	42	37	23	11	35	19
Notes on page 12.	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

Notes on page 18.

Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-20									
Date Sampled	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21	12-Apr-22	7-Apr-23
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methlyene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	170	110	120	160	120	150	180	92	150	23
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 12.

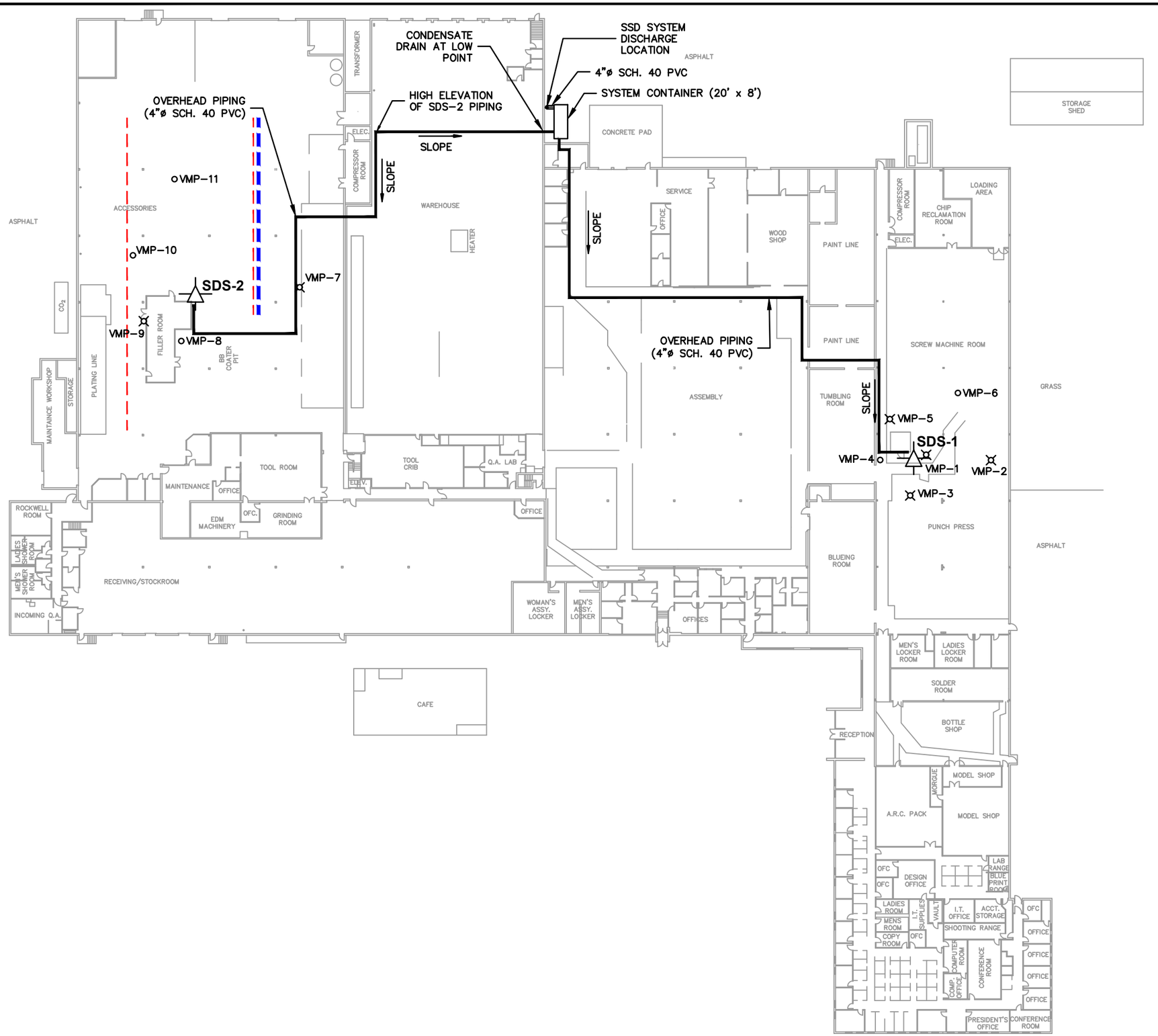
Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

J : The compound was positively identified; however, the associated numerical value is an estimated concentration.
N : Spiked sample recovery was not within control limits.
S : The reported value was determined by the method of standard additions (MSA).
D : Denotes a secondary dilution.
E : Exceeds calibration range.
NA : Denotes not analyzed.
- : Denotes a nondetectable concentration.

Water quality results are expressed in micrograms per liter (µg/L), equivalent to parts per billion.

Notes on page 12.

Figures



LEGEND:

- SSD SYSTEM EXTRACTION POINT
- SSD MONITORING POINT
- OVERHEAD SSD EXTRACTION PIPING
- SSD SYSTEM DISCHARGE PIPING
- RELOCATED SSD MONITORING POINT
- APPROXIMATE LOCATION OF CONCRETE-FILLED TRENCH
- APPROXIMATE LOCATION OF ABANDONED TRENCH

NOTES:

1. BASE MAP SUPPLIED BY CROSMAN CORPORATION, DRAWING FACILITY-3-14-08, DATED 3/14/2008.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. ALL LOCATIONS ARE APPROXIMATE.
4. THE SSD SYSTEM IS DESIGNED TO ACHIEVE A 40' RADIUS OF INFLUENCE AT SDS-1 AND 60' RADIUS OF INFLUENCE AT SDS-2.
5. SSD EXTRACTION PIPING SLOPED AS INDICATED TO PROMOTE DRAINAGE OR COLLECTION OF POTENTIALLY ACCUMULATED WATER.
6. LAND SURFACE AT SYSTEM CONTAINER LOCATION IS ASPHALT. CONTAINER LEVELED AS NEEDED USING STEEL SHIMS.
7. SSD SYSTEM DISCHARGE PIPING STACK EXTENDS TO 3 FEET ABOVE ROOFLINE.

0 60' 120'

GRAPHIC SCALE

CROSMAN CORPORATION SITE
EAST BLOOMFIELD, NEW YORK

SSDS AND VACUUM MONITORING POINT LOCATIONS

ARCADIS

FIGURE 1

CITY:SYRACUSE-NY DIV/GROUP:ENVCAD DB:G.STEINBERGER LD: PIC: PM: TM:D.ZUCK LYR:ON=*;OFF=*REF*
C:\Users\ekrahmer\ACCDocs\Arcadis\AUS-NEW COLEMAN HOLDINGS-CROSMAN CORPORATION-BLOOMFIELD New York\Project Files\2023\01-In Progress\01-DWG\PRR-FIG01-EXTRACTION-PTS.dwg LAYOUT: 1 SAVED: 6/9/2023 10:21 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 6/9/2023 11:00 AM BY: KRAHMER, ERIC
XREFS: PROJECTNAME: ----
IMAGES:
SMP-X-TITLE SHEET
PRR-X-BASEMAP1

MW-5				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
19	7.9	8.7	5.7	6.4
Apr-16	Oct-16	Apr-17	Oct-17	Apr-18
ND	6.1	5.0	17	11
Oct-18	Apr-19	Oct-19	Apr-20	Oct-20
11	9.5	9.1	7.8	6.8
Apr-21	Oct-21	Apr-22	Oct-22	Apr-23
6.7	ND	ND	5.3	ND

MW-15				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
ND	ND	ND	ND	ND
Apr-16	Oct-16	Apr-17	Oct-17	Apr-18
ND	ND	ND	ND	ND
Oct-18	Apr-19	Oct-19	Apr-20	Oct-20
ND	ND	ND	ND	ND
Apr-21	Oct-21	Apr-22	Oct-22	Apr-23
ND	ND	ND	ND	ND

MW-14				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
ND	ND	ND	ND	ND
Apr-16	Oct-16	Apr-17	Oct-17	Apr-18
ND	ND	ND	ND	ND
Oct-18	Apr-19	Oct-19	Apr-20	Oct-20
ND	ND	ND	ND	15
Apr-21	Oct-21	Apr-22	Oct-22	Apr-23
ND	7.3	11	6.6	ND

MW-20				
Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
170	110	120	160	120
Apr-19	Apr-20	Apr-21	Apr-22	Apr-23
150	180	92	150	23

MW-13				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
480	310	190	180	400 D
Apr-16	Oct-16	Apr-17	Oct-17	Apr-18
130	96	250 D	110	51
Oct-18	Apr-19	Oct-19	Apr-20	Oct-20
140	34	58	340 D	29
Apr-21	Oct-21	Apr-22	Oct-22	Apr-23
ND	140	130	160	96

MW-4				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
ND	4.06	ND	ND	ND
Apr-16	Oct-16	Apr-17	Oct-17	Apr-18
ND	ND	ND	ND	ND
Oct-18	Apr-19	Oct-19	Apr-20	Oct-20
ND	ND	ND	ND	ND
Apr-21	Oct-21	Apr-22	Oct-22	Apr-23
ND	ND	ND	ND	ND

PW-1				
Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
140	120	110	69	98
Apr-16	Oct-16	Apr-17	Apr-18	Oct-18
79	92	41	14	22
Apr-19	Oct-19	Apr-20	Oct-20	Apr-21
15	38	14	42	37
Oct-21	Apr-22	Oct-22	Apr-23	
23	11	35	19	

MW-19				
Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
ND	ND	ND	ND	ND
Apr-19	Apr-20	Apr-21	Apr-22	Apr-23
ND	ND	ND	ND	ND

MW-18				
Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
ND	ND	ND	ND	ND
Apr-19	Apr-20	Apr-21	Apr-22	Apr-23
ND	ND	ND	ND	ND

MW-17				
Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
440	400	340	500 D	470
Apr-19	Apr-20	Apr-21	Apr-22	Apr-23
440	440	350	390	230

MW-3A				
Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
280	250	350	260	190
Apr-19	Apr-20	Apr-21	Apr-22	Apr-23
130	220 D	200	220	46

NEW YORK STATE ROUTES 5 & 20

RABBIT RUN

ACCESS DRIVE

PRE-TREATMENT BUILDING

FORMER TANK LOCATION

MANUFACTURING

FINISHED PRODUCT WAREHOUSE

SSDS TREATMENT CENTER

ASPHALT PAVEMENT

RETENTION POND

OFFICE AREA

PZ-2 (972.76)

PZ-1

PZ-3

MW-1A MW-1* MW-2 MW-3* MW-3A MW-4 MW-5 MW-6 MW-7 MW-8* MW-9 MW-10 MW-11* MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 VE-PZ-1 VE-PZ-2 VE-PZ-3

0 150' 300'

GRAPHIC SCALE

LEGEND:

- GROUNDWATER MONITORING WELL
- ABANDONED GROUNDWATER MONITORING WELL
- PRODUCTION WELL
- PIEZOMETER
- ABANDONED PIEZOMETER
- APPROXIMATE PROPERTY BOUNDARY

NOTES:

1. BASE MAP REFERENCE:
   1.1. SURVEY BY FISHER ASSOCIATES, ROCHESTER, NY. COMPLETED NOVEMBER 27, 2018.
2. ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L).
3. ABBREVIATIONS:
   3.1. D = CONCENTRATION IS THE RESULT OF A SECONDARY DILUTION.
   3.2. E = EXCEEDS CALIBRATION RANGE.
   3.3. J = THE COMPOUND WAS POSITIVELY IDENTIFIED, HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.

CROSMAN CORPORATION SITE
EAST BLOOMFIELD, NEW YORK

GROUNDWATER MONITORING REPORT

MAP OF TRICHLOROETHYLENE CONCENTRATIONS IN GROUNDWATER

ARCADIS

FIGURE 2

Appendix A

Recorded Declaration of Covenants and Restrictions

Ontario County Clerk Recording Page

Return To

Stewart Title Insurance Company - Upstate

Matthew J. Hoose, County Clerk
Ontario County Clerk
20 Ontario Street
Canandaigua, New York 14424
(585) 396-4200

Document Type: **DECLARATION**

Receipt Number: 493204

Grantor (Party 1)
CROSMAN CORPORATION

Grantee (Party 2)

Fees	
Recording Fee	$20.00
Pages Fee	$30.00
State Surcharge	$20.00
Total Fees Paid:	$70.00

Control #: 202005130107

Property located in **Town of East Bloomfield**

State of New York
County of Ontario

Recorded on May 13th, 2020 at 4:52:59 PM
in Liber **01450** of **Deeds**
beginning at page **0324**, ending at page **0329, with a total page count of 6**.

Matthew J Hoose

Ontario County Clerk

This sheet constitutes the Clerk's endorsement required by section 319 of the Real Property Law of the State of New York

SC

Do Not Detach

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 4th day of May 2020, by Crosman Corporation, a corporation organized and existing under the laws of the State of Delaware and having an office for the transaction of business at 7629 Routes 5 and 20, East Bloomfield, New York 14443.

WHEREAS, the Crosman Corporation Site, (Site # 835012) is the subject of an Order on Consent executed by Crosman Corporation and New Coleman Holdings, Inc. (collectively, the "Respondents") as part of the New York State Department of Environmental Conservation's (the "Department's") State Superfund Program, namely that parcel of real property located at the address of 7629 Routes 5 and 20 (Tax Map ID# 080.00-1-04.000), Town of East Bloomfield, County of Ontario, State of New York, being the same as (or part of) that property conveyed to Crosman Corporation by Crosman Products, Inc., by deed(s) dated August 27, 1990, and recorded on September 13, 1990 at the Ontario County Clerk in Liber 900, Page 1065, and being more particularly described in Schedule "A," attached to this declaration and made a part hereof, and hereinafter referred to as the "Property"; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, Crosman Corporation, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as described in Schedule "A" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as the "Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), including any and all Department-approved amendments to the SMP, there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results in unacceptable human exposure to contaminated soils. An up-to-date version of the SMP may be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, New York, 12233 or DERWEB@dec.ny.gov.

Third, the owner of the Property shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for

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Barclay Damon LLP
2000 Five Star Bank Plaza
100 Chestnut Street
Rochester NY 14604

the Remedy, which are described in the SMP, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for Commercial use as described in 6 NYCRR Part 375-1.8(g)(2)(iii) or Industrial use as described in 6 NYCRR Part 375-1.8(g)(2)(iv), consistent with zoning, without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, the use of groundwater underlying the Property as drinking water is prohibited without necessary water quality treatment as determined by the New York State Department of Health or the Ontario County Department of Health to render it safe for use as drinking water, and the user must first notify and obtain written approval to so use the groundwater as drinking water from the Department; provided, however, that this prohibition is inapplicable to the continued use of the groundwater underlying the Property as non-contact cooling and process water with subsequent discharge primarily pursuant to a State Pollution Discharge Elimination System permit (presently, SPDES Permit No.: NY-0103039) to an unnamed tributary of Fish Creek, but also to an extent, with subsequent discharge to the East Bloomfield Publicly Owned Treatment Works.

Sixth, the owner of the Property shall, at such time as the Department may require pursuant to the SMP, provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired, unless one or both of the Respondents have already provided such periodic certification which has been accepted by the Department pursuant to the SMP.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls required by the Remedy, which are described in the SMP, unless the owner first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP, which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Order on Consent requires to be recorded, and hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, access to the Property must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Declaration of Covenants and Restrictions.

Tenth, the potential for vapor intrusion must be evaluated for any buildings developed on the Property, and any potential impacts that are identified must be monitored or mitigated.

Eleventh, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

Crosman Corporation

By: _____

Print Name: Daniel J. Maier

Title: Vice President of Finance Date: 05/04, 2020

Grantor's Acknowledgment

STATE OF NEW YORK)
)ss:
COUNTY OF ONTARIO)

On the 4 day of May in the year 2020, before me, the undersigned, personally appeared Daniel Maier, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signatures(s) on the instrument, the individual(s), or the person on behalf of which the individual(s) acted, executed the instrument.

Julie Dewey Woodhams
Signature

Notary Stamp & Expiration Date: 3/31/21

Notary Public State of New York

JULIE DEWEY WOODHAMS
Notary Public - State of New York
NO. 01WO6335219
Qualified in Ontario County
My Commission Expires 3/31/21

SCHEDULE "A"
to
Declaration of Covenants and Restrictions
For Crosman Corporation Site
Site No. 835012

METES AND BOUNDS DESCRIPTION OF RESTRICTED PROPERTY AS FILED IN ONTARIO COUNTY CLERK'S OFFICE AT LIBER 900 PAGE 1065

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, with the buildings and improvements thereon erected, situate, lying and being in the Lot Nos. 28 and 44, Township 10, Range 4, Town of East Bloomfield, County of Ontario and State of New York, bounded and described as follows:

BEGINNING at an iron pipe on the south line of New York State Highway (Routes 5 and 20), on the west line of land formerly owned by Charles Page and now reputedly owned by John Toomey, and

RUNNING THENCE South 8 degrees 32 minutes West along land reputedly owned by said Toomey, 1635.15 feet to an iron pipe at the northeast corner of land reputedly owned by David Hamlin;

THENCE North 80 degrees 26 minutes West along land reputedly owned by said Hamlin, 1231.60 feet to an iron pipe at the southeast corner of land formerly owned by Bridget McDonnell and Bertha M. McKeon and now reputedly owned by Alvin Ayres;

THENCE North 8 degrees 22 minutes East along land reputedly owned by said Ayres, 1764.70 feet to an iron pipe at the southwest corner of land formerly owned by Luella Olmstead, and now reputedly owned by Konrad Meier;

THENCE the following courses and distances along land reputedly owned by said Meier, South 81 degrees 51 minutes East 361.02 feet to an iron pipe and North 8 degrees 57 seconds East 86.55 feet to an iron pipe on the south line of the aforesaid highway;

THENCE South 66 degrees 06 minutes East along the south line of said highway, 907.40 feet to the point or place of BEGINNING.

METES AND BOUNDS DESCRIPTION OF RESTRICTED PROPERTY (AS MEASURED) IN THE INSTRUMENT SURVEY COMPLETED BY FISHER ASSOCIATES, P.E., L.S. OCTOBER 23, 2018 BEING AND INTENDING TO DESCRIBE THE SAME PROPERTY AS THE ABOVE LEGAL DESCRIPTION

All that tract or parcel of land situate in Town Lots 28 and 44, Township 10, Range 4, Town of East Bloomfield, County of Ontario, State of New York, bounded and described as follows:

Beginning at a point in the southerly highway boundary of the existing New York Route 5 and US Route 20 (99.0' wide), at its intersection with the division line between the lands now or formerly of Crosman Corporation (Tax 10 No. 80.00-1-4) on the west and the lands now or formerly of Lynn Farash LLC (Tax ID No. 80.00-1-5.013) on the east; thence

1. South 00°24'24" East along the easterly line of Crosman Corporation (Tax ID No. 80.00-1-4) a distance of 1635.16 feet to a point on the division line between the hands now or formerly of Crosman Corporation (Tax ID No, 80.00-1-4) on the north and the lands now or formerly of John Lane and Kelly Lane (Tax ID No. 79.00-3-9.1) on the south; thence

2. North 89°22'24" West along the last mentioned division line, a distance of 1231.60 feet to a point on the division line between the lands now or formerly of Crosman Corporation (Tax ID No. 80.00-1-4) on the east and the lands now or formerly of Duane A. Ayers and Paulette M. Ayers (Tax ID No. 80.00-1-2.21) on the west; thence

3. North 00°34'24" West along the last mentioned division line a distance of 1764.70 feet to a point on the division line between the lands now or formerly of Crosman Corporation (Tax ID No. 80.00-1-4) on the south and the lands now or formerly of Gregory T. Hart and Melissa L Hart (Tax ID No. 80.00-1-3) on the north; thence

4. Easterly and Northerly along the last mentioned division line the following two (2) courses and distances:

    1. North 89°-12'36" East, a distance of 361.02 feet to a point; thence

    2. North 00°01'36" East, a distance of 86.55 feet to a point in the southerly highway boundary of the existing New York Route 5 and 20 (99.0' wide); thence

5. South 75°01'24" East along the southerly highway boundary of the existing New York Route 5 and US Route 20 (99.0' wide), a distance of 907.38 feet to the point of beginning, being 49.684+ acres.

Appendix B

SSDS Inspection Forms

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 1/31/2022 **Time:** 900 **Technician:** NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence:

Record electric meter reading (kWh) NA

Record blower runtime (hours) 46964.1

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-78	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-84
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-73.8	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) (VI-002)	-86	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-86	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-73.8	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-76
Influent temperature *(TI-102)*	58	Post-dilution/pre-blower vacuum *(VI-108)*	-80
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	28/164	Post-blower temperature (°F) *(TI-301)*	136
SDS-2 Air Velocity (fpm) (building/shed)	177/198		
Combined Air Velocity (fpm)	256		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107	X	
V-108	X	
V-109	X	
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: None

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: None

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 1/31/2022 **Time:** 900 **Technician:** NJB

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.141	No
VMP-2	-0.010	No
VMP-3	-0.750	No
VMP-4	-0.022	No
VMP-5	-0.040	No
VMP-6	-0.012	No
VMP-7	-0.022	No
VMP-8	-0.406	No
VMP-9	-0.042	No
VMP-10	-0.039	No
VMP-11	-0.218	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No	1030	Grab	NA	NA	5.3
SDS-2	No	1035	Grab	NA	NA	5.1
Combined Influent	No	1040	Grab	NA	NA	7
Pre-VPGAC4	No	1045	Grab	NA	NA	3.2
Post-Dilution Eff	No	1050	Grab	NA	NA	0.3
Post-Blower Eff	No	1055	Grab	NA	NA	0.3

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 1/31/2022 **Time:** 900 **Technician:** NJB

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	NA	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	No	
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	Yes	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 2/14/2022 **Time:** 830 **Technician:** NJB/RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence:

Record electric meter reading (kWh) NA

Record blower runtime (hours) 47305

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-80	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-76.1	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) (VI-002)	-78	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-89	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-76.1	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-81
Knockout tank level *(inches in site gauge)*	1.5"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-83
Influent temperature *(TI-102)*	56	Post-dilution/pre-blower vacuum *(VI-108)*	-82
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	126/114	Post-blower temperature (°F) *(TI-301)*	138
SDS-2 Air Velocity (fpm) (building/shed)	190/180		
Combined Air Velocity (fpm)	243		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107	X	
V-108	X	
V-109	X	
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: None

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: None

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 2/14/2022 **Time:** 830 **Technician:** NJB/RDC

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.088	No
VMP-2	-0.019	No
VMP-3	-0.783	No
VMP-4	-0.020	No
VMP-5	-0.051	No
VMP-6	-0.032	No
VMP-7	-0.014	No
VMP-8	-0.367	No
VMP-9	-0.026	No
VMP-10	-0.024	No
VMP-11	-0.164	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No	1030	Grab	NA	NA	5.6
SDS-2	No	1035	Grab	NA	NA	3.8
Combined Influent	No	1040	Grab	NA	NA	5.0
Pre-VPGAC4	No	1045	Grab	NA	NA	3.8
Post-Dilution Eff	No	1050	Grab	NA	NA	0.3
Post-Blower Eff	No	1055	Grab	NA	NA	0.1

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 2/14/2022 **Time:** 830 **Technician:** NJB/RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	NA	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	Yes	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 3/25/2022 **Time:** 900 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: KO Tank H alarm on 3/9/22 at 1340. (System remained running)

Record electric meter reading (kWh): NA

Record blower runtime (hours): 48256

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-79	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-84
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-74.2	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) (VI-002)	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-87	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-74.3	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-79
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-81
Influent temperature *(TI-102)*	60	Post-dilution/pre-blower vacuum *(VI-108)*	-82
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	74/92	Post-blower temperature (°F) *(TI-301)*	138
SDS-2 Air Velocity (fpm) (building/shed)	170/187		
Combined Air Velocity (fpm)	241		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: None

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: None

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 3/25/2022 **Time:** 900 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-8.953	No
VMP-2	-0.024	No
VMP-3	-0.814	No
VMP-4	-0.018	No
VMP-5	-0.045	No
VMP-6	-0.019	No
VMP-7	-0.001	No
VMP-8	-0.394	No
VMP-9	-0.037	No
VMP-10	-0.023	No
VMP-11	-0.118	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No	1225	Grab	NA	NA	2.7
SDS-2	No	1230	Grab	NA	NA	6.2
Combined Influent	No	1235	Grab	NA	NA	4.6
Pre-VPGAC4	No	1240	Grab	NA	NA	6.3
Post-Dilution Eff	No	1245	Grab	NA	NA	0.1
Post-Blower Eff	No	1250	Grab	NA	NA	0.0

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: 3/25/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	NA	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	Yes	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 5/5/2022 **Time:** 900 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 49254

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-79	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-79		
(transmitter VT-101)	-74.7	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) (VI-002)	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-14
SDS-2 header vacuum (in w.c.) *(VI-201)*	-88	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-74.7	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	3"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-82
Influent temperature *(TI-102)*	64	Post-dilution/pre-blower vacuum *(VI-108)*	-82
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	119/147	Post-blower temperature (°F) *(TI-301)*	147
SDS-2 Air Velocity (fpm) (building/shed)	170/280		
Combined Air Velocity (fpm)	221		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: I cut back some vegitation growing along facility wall next to the SSD system enclosure.

Monthly visit was pushed back one week due to scheduling issues, causing the April visit to be conducted the first week of May.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 5/5/2022 **Time:** 900 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.547	No
VMP-2	-0.017	No
VMP-3	-0.818	No
VMP-4	-0.018	No
VMP-5	-0.050	No
VMP-6	-0.030	No
VMP-7	-0.009	No
VMP-8	-0.391	No
VMP-9	-0.044	No
VMP-10	-0.032	No
VMP-11	-0.179	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No	1115	Grab	NA	NA	5.8
SDS-2	No	1116	Grab	NA	NA	21.1
Combined Influent	No	1117	Grab	NA	NA	8.0
Pre-VPGAC4	No	1118	Grab	NA	NA	4.2
Post-Dilution Eff	No	1119	Grab	NA	NA	0.3
Post-Blower Eff	No	1120	Grab	NA	NA	0.0

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 5/5/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	NA	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	Yes	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 6/3/2022 **Time:** 915 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: AC Power Loss 5/27/22. Restarted before O&M readings

Record electric meter reading (kWh): NA

Record blower runtime (hours): 49792

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-78	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-84
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-73.7	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-14
SDS-2 header vacuum (in w.c.) *(VI-201)*	-86	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-76
(transmitter VT-201)	-73.7	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-78
Knockout tank level *(inches in site gauge)*	3"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-79
Influent temperature *(TI-102)*	64	Post-dilution/pre-blower vacuum *(VI-108)*	-81
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	107/121	Post-blower temperature (°F) *(TI-301)*	152
SDS-2 Air Velocity (fpm) (building/shed)	168/200		
Combined Air Velocity (fpm)	238		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: Power loss to system on 5/27/22. Emails stopped sending out on 5/17/22. System re-set, and emails are now functioning.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/3/2022 **Time:** 915 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		AC Power Loss; PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-8.516	No
VMP-2	-0.028	No
VMP-3	-0.788	No
VMP-4	-0.016	No
VMP-5	-0.047	No
VMP-6	-0.059	No
VMP-7	-0.010	No
VMP-8	-0.391	No
VMP-9	-0.051	No
VMP-10	-0.032	No
VMP-11	-0.168	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No	1100	Grab	NA	NA	4.7
SDS-2	No	1105	Grab	NA	NA	234.7
Combined Influent	No	1110	Grab	NA	NA	161.1
Pre-VPGAC4	No	1115	Grab	NA	NA	4.0
Post-Dilution Eff	No	1120	Grab	NA	NA	0.0
Post-Blower Eff	No	1125	Grab	NA	NA	0.0

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/3/2022 **Time:** 915 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	3" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 6/16/2022 **Time:** 745 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA Record blower runtime (hours) 50105.7

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-76	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-83
SDS-1 header vacuum (in w.c.) *(VI-101)*	-76		
(transmitter VT-101)	-71.3	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-74	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-85	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-76
(transmitter VT-201)	-71.3	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-78
Knockout tank level *(inches in site gauge)*	2"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-80
Influent temperature *(TI-102)*	84	Post-dilution/pre-blower vacuum *(VI-108)*	-80
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	132/112	Post-blower temperature (°F) *(TI-301)*	172
SDS-2 Air Velocity (fpm) (building/shed)	204/203		
Combined Air Velocity (fpm)	282		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes:

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/16/2022 **Time:** 745 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen and SUMMA cannister
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	88		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.487	No
VMP-2	-0.031	No
VMP-3	-0.790	No
VMP-4	-0.016	No
VMP-5	-0.050	No
VMP-6	-0.058	No
VMP-7	-0.007	No
VMP-8	-0.420	No
VMP-9	-0.077	No
VMP-10	-0.045	No
VMP-11	-0.190	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	Y	1250	Grab	-29.0	-6	9.2	4654
SDS-2	Y	1255	Grab	-29.5	-6	7.6	6461
Combined Influent	Y	1300	Grab	-29.5	-6	6.6	34000993
Pre-VPGAC4	Y	1305	Grab	-29.5	-6	7.8	34000330
Post-Dilution Eff	Y	1320	Grab	-30.0	-6	0.0	5934
Post-Blower Eff	Y	1325	Grab	-29.5	0	0.0	4863

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/16/2022 **Time:** 745 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	2" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 7/15/2022 **Time:** 900 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 50816

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-78	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-85
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-73.8	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-8
SDS-2 header vacuum (in w.c.) *(VI-201)*	-87	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-73.9	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-82
Influent temperature *(TI-102)*	72	Post-dilution/pre-blower vacuum *(VI-108)*	-82
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	126/130	Post-blower temperature (°F) *(TI-301)*	159
SDS-2 Air Velocity (fpm) (building/shed)	171/191		
Combined Air Velocity (fpm)	249		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes:

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 7/15/2022 **Time:** 900 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		None
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	80		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.312	No
VMP-2	-0.031	No
VMP-3	-0.850	No
VMP-4	-0.018	No
VMP-5	-0.051	No
VMP-6	-0.062	No
VMP-7	-0.011	No
VMP-8	-0.447	No
VMP-9	-0.069	No
VMP-10	-0.047	No
VMP-11	-0.202	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	NA	NA			2.7	
SDS-2	N	NA	NA			1.9	
Combined Influent	N	NA	NA			2.0	
Pre-VPGAC4	N	NA	NA			1.3	
Post-Dilution Eff	N	NA	NA			0.2	
Post-Blower Eff	N	NA	NA			0.0	

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 7/15/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	2" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 8/26/2022 **Time:** 900 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 51839

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-78	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-84
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-72.9	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-86	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-72.9	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-79
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-81
Influent temperature *(TI-102)*	76	Post-dilution/pre-blower vacuum *(VI-108)*	-82
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	73/83	Post-blower temperature (°F) *(TI-301)*	162
SDS-2 Air Velocity (fpm) (building/shed)	164/198		
Combined Air Velocity (fpm)	232		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107	X	
V-108	X	
V-109	X	
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes:

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 8/26/2022 **Time:** 900 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		None
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	80		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.467	No
VMP-2	-0.040	No
VMP-3	-0.482	No
VMP-4	-0.019	No
VMP-5	-0.053	No
VMP-6	-0.064	No
VMP-7	-0.011	No
VMP-8	-0.428	No
VMP-9	-0.077	No
VMP-10	-0.048	No
VMP-11	-0.194	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	NA	NA			5.0	
SDS-2	N	NA	NA			3.8	
Combined Influent	N	NA	NA			4.2	
Pre-VPGAC4	N	NA	NA			3.0	
Post-Dilution Eff	N	NA	NA			NS	
Post-Blower Eff	N	NA	NA			0.0	

Vac box stopped working and I was unable to collect the sample from Post-Dilution Eff

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 8/26/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	0" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 9/30/2022 **Time:** 900 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		Off, restarted upon arrival
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: AC Power Loss 15:05:49 9/26/22

Record electric meter reading (kWh) NA

Record blower runtime (hours) 52600

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-80	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-76.3	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-78	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-56
SDS-2 header vacuum (in w.c.) *(VI-201)*	-89	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-76.3	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-82
Influent temperature *(TI-102)*	58	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	77/87	Post-blower temperature (°F) *(TI-301)*	143
SDS-2 Air Velocity (fpm) (building/shed)	140/152		
Combined Air Velocity (fpm)	220		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: System was down upon arrival. 'AC Power Loss 15:05:49 9/26/22'. Sytem was restarted at 0830 on 9/30/22.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 9/30/2022 **Time:** 900 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		Off, restarted upon arrival
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	70		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-8.945	No
VMP-2	-0.027	No
VMP-3	-0.882	No
VMP-4	-0.020	No
VMP-5	-0.053	No
VMP-6	-0.039	No
VMP-7	-0.008	No
VMP-8	-0.362	No
VMP-9	-0.035	No
VMP-10	-0.026	No
VMP-11	-0.145	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	NA	NA			6.3	
SDS-2	N	NA	NA			2.9	
Combined Influent	N	NA	NA			3.7	
Pre-VPGAC4	N	NA	NA			1.4	
Post-Dilution Eff	N	NA	NA			0.3	
Post-Blower Eff	N	NA	NA			0.0	

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 9/30/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	0" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 10/26/2022 **Time:** 1615 **Technician:** ADR

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 52994.7

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-78	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-84
SDS-1 header vacuum (in w.c.) *(VI-101)*	-78		
(transmitter VT-101)	-72.3	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-76	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	0
SDS-2 header vacuum (in w.c.) *(VI-201)*	-86	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-72.3	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-79
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-80
Influent temperature *(TI-102)*	77	Post-dilution/pre-blower vacuum *(VI-108)*	-78
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	104/140	Post-blower temperature (°F) *(TI-301)*	160
SDS-2 Air Velocity (fpm) (building/shed)	180/208		
Combined Air Velocity (fpm)	357		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes:

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 10/26/2022 **Time:** 1615 **Technician:** ADR

System Status

	YES	NO	Notes
Is blower running?	X		None
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	70		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-8.836	No
VMP-2	-0.039	No
VMP-3	-0.858	No
VMP-4	-0.018	No
VMP-5	-0.053	No
VMP-6	-0.056	No
VMP-7	-0.009	No
VMP-8	-0.431	No
VMP-9	-0.078	No
VMP-10	NA	No
VMP-11	-0.177	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	NA	NA			6.1	
SDS-2	N	NA	NA			4.1	
Combined Influent	N	NA	NA			2.1	
Pre-VPGAC4	N	NA	NA			4.0	
Post-Dilution Eff	N	NA	NA			0.3	
Post-Blower Eff	N	NA	NA			0.0	

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 10/26/2022 **Time:** 1615 **Technician:** ADR

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	0" - not drained
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 12/2/2022 **Time:** 1300 **Technician:** RDC

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 53895

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-82	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-77.4	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-74	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-45
SDS-2 header vacuum (in w.c.) *(VI-201)*	-89	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-77.4	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-81
Knockout tank level *(inches in site gauge)*	7"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-83
Influent temperature *(TI-102)*	55	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	166/136	Post-blower temperature (°F) *(TI-301)*	134
SDS-2 Air Velocity (fpm) (building/shed)	160/150		
Combined Air Velocity (fpm)	260		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107	X	
V-108	X	
V-109	X	
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: 7" of water in KO tank; drained to buckets and treated with carbon. Discharged to surface. Elbows in influent piping also drained.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 12/2/2022 **Time:** 1300 **Technician:** RDC

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-7.786	No
VMP-2	-0.021	No
VMP-3	-0.914	No
VMP-4	-0.020	No
VMP-5	-0.049	No
VMP-6	-0.011	No
VMP-7	-0.007	No
VMP-8	-0.386	No
VMP-9	-0.049	No
VMP-10	-0.034	No
VMP-11	Obstructed	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	NA	NA			4.8	
SDS-2	N	NA	NA			3.2	
Combined Influent	N	NA	NA			4.0	
Pre-VPGAC4	N	NA	NA			3.3	
Post-Dilution Eff	N	NA	NA			0.3	
Post-Blower Eff	N	NA	NA			0.0	

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 12/2/2022 **Time:** 900 **Technician:** RDC

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	7" - drained
Condensation Check (1)	Monthly	Yes	condensate drained from piping
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 12/27/2022 **Time:** 900 **Technician:** RDC and BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 54499

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-82	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-87
SDS-1 header vacuum (in w.c.) *(VI-101)*	-84		
(transmitter VT-101)	-77.3	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-74	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-57
SDS-2 header vacuum (in w.c.) *(VI-201)*	-92	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-76.5	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-82
Knockout tank level *(inches in site gauge)*	7"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-85
Influent temperature *(TI-102)*	55	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	77/145	Post-blower temperature (°F) *(TI-301)*	140
SDS-2 Air Velocity (fpm) (building/shed)	152/237		
Combined Air Velocity (fpm)	272		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: 7" of water in KO tank; drained to buckets and treated with carbon. Discharged to surface. Elbows in influent piping also drained.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 12/27/2022 **Time:** 930 **Technician:** RDC and BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen and SUMMA cannister
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.191	No
VMP-2	-0.015	No
VMP-3	-0.917	No
VMP-4	-0.021	No
VMP-5	-0.050	No
VMP-6	-0.015	No
VMP-7	-0.015	No
VMP-8	-0.356	No
VMP-9	-0.026	No
VMP-10	-0.036	No
VMP-11	Obstructed	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	Y	1115	Grab	-30.0	-5	2.9	6493
SDS-2	Y	1120	Grab	-30.0	-6	1.4	4486
Combined Influent	Y	1125	Grab	-30.0	-6	1.8	34000935
Pre-VPGAC4	Y	1130	Grab	-29.0	-5	1.8	6392
Post-Dilution Eff	N	NA	Grab	-10.0	NA	0.4	34000999
Post-Blower Eff	Y	1140	Grab	-29.0	-3	0.1	34002419

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 12/27/2022 **Time:** 900 **Technician:** RDC and BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	7" - drained
Condensation Check (1)	Monthly	Yes	drained
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 1/27/2023 **Time:** 1000 **Technician:** BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 55254.4

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-82	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-87
SDS-1 header vacuum (in w.c.) *(VI-101)*	-81		
(transmitter VT-101)	-75.6	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-74	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-32
SDS-2 header vacuum (in w.c.) *(VI-201)*	-91	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-74.8	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-81
Knockout tank level *(inches in site gauge)*	14"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-84
Influent temperature *(TI-102)*	52	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	78/132	Post-blower temperature (°F) *(TI-301)*	140
SDS-2 Air Velocity (fpm) (building/shed)	172/250		
Combined Air Velocity (fpm)	269		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: 14" of water in KO tank; drained to buckets and treated with carbon. Discharged to surface. Elbows in influent piping also drained.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 1/27/2023 **Time:** 1000 **Technician:** BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.315	No
VMP-2	-0.025	No
VMP-3	-0.940	No
VMP-4	-0.021	No
VMP-5	-0.055	No
VMP-6	-0.041	No
VMP-7	-0.016	No
VMP-8	-0.400	No
VMP-9	-0.058	No
VMP-10	-0.047	No
VMP-11	Obstructed	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	N/A	N/A	N/A	N/A	2.8	N/A
SDS-2	N	N/A	N/A	N/A	N/A	6.4	N/A
Combined Influent	N	N/A	N/A	N/A	N/A	7.5	N/A
Pre-VPGAC4	N	N/A	N/A	N/A	N/A	9.0	N/A
Post-Dilution Eff	N	N/A	N/A	N/A	N/A	0.6	N/A
Post-Blower Eff	N	N/A	N/A	N/A	N/A	0.3	N/A

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 1/27/2023 **Time:** 1000 **Technician:** BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	14" - drained
Condensation Check (1)	Monthly	Yes	drained
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 2/24/2023 **Time:** 900 **Technician:** BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 55909.4

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-83	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-88
SDS-1 header vacuum (in w.c.) *(VI-101)*	-83		
(transmitter VT-101)	-77	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-74	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-24
SDS-2 header vacuum (in w.c.) *(VI-201)*	-92	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-80
(transmitter VT-201)	-76.5	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-82
Knockout tank level *(inches in site gauge)*	14"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-85
Influent temperature *(TI-102)*	50	Post-dilution/pre-blower vacuum *(VI-108)*	-87
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	67/222	Post-blower temperature (°F) *(TI-301)*	136
SDS-2 Air Velocity (fpm) (building/shed)	219/235		
Combined Air Velocity (fpm)	262		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: 14" of water in KO tank; drained to buckets and treated with carbon. Discharged to surface. Elbows in influent piping also drained.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 2/24/2023 **Time:** 900 **Technician:** BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.501	No
VMP-2	-0.030	No
VMP-3	-0.960	No
VMP-4	-0.022	No
VMP-5	-0.061	No
VMP-6	-0.062	No
VMP-7	-0.020	No
VMP-8	-0.382	No
VMP-9	-0.048	No
VMP-10	-0.048	No
VMP-11	-0.306	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	N/A	N/A	N/A	N/A	2.7	N/A
SDS-2	N	N/A	N/A	N/A	N/A	2.2	N/A
Combined Influent	N	N/A	N/A	N/A	N/A	2.6	N/A
Pre-VPGAC4	N	N/A	N/A	N/A	N/A	1.5	N/A
Post-Dilution Eff	N	N/A	N/A	N/A	N/A	0.6	N/A
Post-Blower Eff	N	N/A	N/A	N/A	N/A	0.2	N/A

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 2/24/2023 **Time:** 1000 **Technician:** BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled May and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	14" - drained
Condensation Check (1)	Monthly	Yes	drained
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 3/9/2023 **Time:** 1130 **Technician:** BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 56119.7

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-82	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-76.9	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-80	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-16
SDS-2 header vacuum (in w.c.) *(VI-201)*	-90	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-76.9	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	0"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-84
Influent temperature *(TI-102)*	54	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	105/96	Post-blower temperature (°F) *(TI-301)*	138
SDS-2 Air Velocity (fpm) (building/shed)	191/176		
Combined Air Velocity (fpm)	283		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: Added silicone lubricant to valves: SDS-1, SDS-2, Combined Influent, Pre-VPGAC4, Post-Dilution Eff, Post Blower-Eff.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 3/9/2023 **Time:** 1130 **Technician:** BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.571	No
VMP-2	-0.036	No
VMP-3	-0.920	No
VMP-4	-0.021	No
VMP-5	-0.058	No
VMP-6	-0.044	No
VMP-7	-0.009	No
VMP-8	-0.396	No
VMP-9	-0.043	No
VMP-10	-0.032	No
VMP-11	-0.216	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	N/A	N/A	N/A	N/A	6.1	N/A
SDS-2	N	N/A	N/A	N/A	N/A	2.6	N/A
Combined Influent	N	N/A	N/A	N/A	N/A	3.3	N/A
Pre-VPGAC4	N	N/A	N/A	N/A	N/A	6.3	N/A
Post-Dilution Eff	N	N/A	N/A	N/A	N/A	0.6	N/A
Post-Blower Eff	N	N/A	N/A	N/A	N/A	0.2	N/A

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 3/9/2023 **Time:** 1000 **Technician:** BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 4/7/2023 **Time:** 1230 **Technician:** BKW, KCF

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 56819.3

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-82	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-77.4	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-78	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-6
SDS-2 header vacuum (in w.c.) *(VI-201)*	-90	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-76.9	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-80
Knockout tank level *(inches in site gauge)*	15"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-84
Influent temperature *(TI-102)*	60	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	110/143	Post-blower temperature (°F) *(TI-301)*	142
SDS-2 Air Velocity (fpm) (building/shed)	202/235		
Combined Air Velocity (fpm)	280		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? Yes - blower "rattling." Video recorded.

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: Drained KOT and elbow valves.

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 4/7/2023 **Time:** 1230 **Technician:** BKW, KCF

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	55		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.167	No
VMP-2	-0.033	No
VMP-3	-0.914	No
VMP-4	-0.021	No
VMP-5	-0.056	No
VMP-6	-0.068	No
VMP-7	-0.008	No
VMP-8	-0.314	No
VMP-9	-0.024	No
VMP-10	-0.027	No
VMP-11	-0.194	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	N/A	N/A	N/A	N/A	N/A	N/A
SDS-2	N	N/A	N/A	N/A	N/A	N/A	N/A
Combined Influent	N	N/A	N/A	N/A	N/A	N/A	N/A
Pre-VPGAC4	N	N/A	N/A	N/A	N/A	N/A	N/A
Post-Dilution Eff	N	N/A	N/A	N/A	N/A	N/A	N/A
Post-Blower Eff	N	N/A	N/A	N/A	N/A	N/A	N/A

PID measurements not recorded due to vacuum box malfunction.

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 4/7/2023 **Time:** 1230 **Technician:** BKW, KCF

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 5/11/2023 **Time:** 1100 **Technician:** BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 57643.5

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-81	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-86
SDS-1 header vacuum (in w.c.) *(VI-101)*	-80		
(transmitter VT-101)	-75.4	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-78	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-9
SDS-2 header vacuum (in w.c.) *(VI-201)*	-89	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-78
(transmitter VT-201)	-75.3	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-81
Knockout tank level *(inches in site gauge)*	<1"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-84
Influent temperature *(TI-102)*	72	Post-dilution/pre-blower vacuum *(VI-108)*	-86
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	0
SDS-1 Air Velocity (fpm) (building/shed)	103/151	Post-blower temperature (°F) *(TI-301)*	162
SDS-2 Air Velocity (fpm) (building/shed)	187/217		
Combined Air Velocity (fpm)	260		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: Elbow valves dry. Did not drain KOT due to low water level (<1").

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 5/11/2023 **Time:** 1100 **Technician:** BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-9.531	No
VMP-2	-0.041	No
VMP-3	-0.919	No
VMP-4	-0.021	No
VMP-5	-0.058	No
VMP-6	-0.076	No
VMP-7	-0.010	No
VMP-8	-0.444	No
VMP-9	-0.060	No
VMP-10	-0.047	No
VMP-11	-0.271	No
VMP-12	Abandonded	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	Y	1130	Grab	-30.0	-7	4.3	8440
SDS-2	Y	1135	Grab	-30.0	-6	2.5	6425
Combined Influent	Y	1140	Grab	-30.0	-6	4.8	4650
Pre-VPGAC4	Y	1145	Grab	-30.0	-8	6.5	34000865
Post-Dilution Eff	Y	1150	Grab	-30.0	-7	1.2	5922
Post-Blower Eff	Y	1155	Grab	-30.0	-2	1.1	34002482

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 5/11/2023 **Time:** 1100 **Technician:** BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

System Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

ARCADIS

Date: 6/5/2023 **Time:** 900 **Technician:** BKW

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	X		None
Is virtual hand-off-auto switch in the "auto" position?	X		None
Are electrical panel doors securely closed?	X		None

List any active alarms including date/time of occurrence: None

Record electric meter reading (kWh) NA

Record blower runtime (hours) 58249.5

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) *(VI-001)*	-64	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) *(VI-102)*	-70
SDS-1 header vacuum (in w.c.) *(VI-101)*	-64		
(transmitter VT-101)	-58.7	Pre-VPGAC-101 vacuum (in w.c.) *(VI-103)*	0
SDS-2 applied vacuum (in w.c.) *(VI-002)*	-62	Pre-VPGAC-102 vacuum (in w.c.) *(VI-104)*	-6
SDS-2 header vacuum (in w.c.) *(VI-201)*	-72	Pre-VPGAC-103 vacuum (in w.c.) *(VI-105)*	-62
(transmitter VT-201)	-58.7	Pre-VPGAC-104 vacuum (in w.c.) *(VI-106)*	-64
Knockout tank level *(inches in site gauge)*	<1"	Post-VPGAC-104/pre-dilution vacuum *(VI-107)*	-66
Influent temperature *(TI-102)*	90	Post-dilution/pre-blower vacuum *(VI-108)*	-80
Influent flow rate *(FI-101)*	NA	Post-blower pressure (in w.c.) *(PI-301)*	-2.5
SDS-1 Air Velocity (fpm) (building/shed)	90/167	Post-blower temperature (°F) *(TI-301)*	140
SDS-2 Air Velocity (fpm) (building/shed)	190/193		
Combined Air Velocity (fpm)	213		

System Valve Positions

	OPENED	CLOSED
SDS-1 extraction point valve V-001	X	
SDS-2 extraction point valve V-002	X	
SDS-1 header valve V-101	X	
SDS-2 header valve V-201	X	
Dilution valve V-119	X	
Vacuum relief valve V-120		X
Pressure relief valve V-301		X

	OPENED	CLOSED
V-102	X	
V-103	X	
V-104		X
V-105		X
V-106		X
V-107		
V-108		
V-109		
V-110		X

	OPENED	CLOSED
V-111		X
V-112		X
V-113		X
V-114		X
V-115		X
V-116		X
V-117		X
V-118		X

GENERAL

Are there any unusual noises, vibrations or odors detected at the system? No

Inspect all fittings, piping, relief valves and sample ports for leaks. Note any observations: All good.

Was enclosure secure upon arrival? (Y/N) Yes

Other notes: Elbow valves dry. Did not drain KOT due to low water level (<1").

Performance Monitoring Log
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/5/2023 **Time:** 900 **Technician:** BKW

System Status

	YES	NO	Notes
Is blower running?	X		Yes
Was monthly OM&M Log Sheet completed?	X		None
Was instantaneous sub-slab differential pressure monitoring conducted?	X		None
Was air sampling conducted?	X		PID field screen
Was 24-hour continous differential pressure monitoring conducted?		X	None
Indicate indoor air temperature (°F):	65		

Sub-Slab Differential Pressure Monitoring

Vacuum Monitoring Point	Instantaneous Differential Pressure (in w.c.) [*use negative sign to indicate vacuum*]	24-Hour Continuous Monitoring Conducted (Y/N)
VMP-1	-7.487	No
VMP-2	-0.025	No
VMP-3	-0.763	No
VMP-4	-0.018	No
VMP-5	-0.043	No
VMP-6	-0.042	No
VMP-7	-0.009	No
VMP-8	-0.374	No
VMP-9	-0.058	No
VMP-10	-0.043	No
VMP-11	Obstructed	No
VMP-12	Abandonded	--

-3

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement	Can ID
				Start	Finish		
SDS-1	N	N/A	N/A	N/A	N/A	4.8	N/A
SDS-2	N	N/A	N/A	N/A	N/A	4.4	N/A
Combined Influent	N	N/A	N/A	N/A	N/A	6.8	N/A
Pre-VPGAC4	N	N/A	N/A	N/A	N/A	6.2	N/A
Post-Dilution Eff	N	N/A	N/A	N/A	N/A	1.6	N/A
Post-Blower Eff	N	N/A	N/A	N/A	N/A	0.8	N/A

Monthly OMM Checklist
Sub-Slab Depressurization System
Crosman Corporation, East Bloomfield, New York

Date: 6/5/2023 **Time:** 1100 **Technician:** BKW

Task	Frequency	Conducted (Y/N)	Notes
Complete System Monitoring Log	Monthly	Yes	
Complete Performance Monitoring Log	Monthly	Yes	
Complete Alarm Response Log	As Needed	Yes	
Conduct Instantaneous Sub-Slab Differential Pressure Monitoring	See Table 4	Yes	
Conduct 24-Hour Continuous Differential Pressure Monitoring	See Table 4	No	
Conduct System Vapor sampling	See Table 5	Yes	PID Field Screen; sampled June and December
Blower Inspection	Monthly	Yes	
Knockout Tank Liquid Level Check and/or Draining (1)	Monthly	Yes	
Condensation Check (1)	Monthly	Yes	
In-Line Air Filter Element Inspection and/or Replacement (2)(3)	Monthly	Yes	
Dilution Line Air Filter Element Inspection and/or Replacement	Monthly	Yes	
Extraction Point Riser Inspection	Monthly	Yes	
Discharge Stack Inspection	Monthly	Yes	
Knockout Tank Liquid Level Switches Test(4)(5)	Annual	NA	
Vacuum Transmitters Test (4)(6)	Annual	NA	
Vacuum Relief Valve Test (should open at 80 in w.c. vacuum)	Annual	NA	
Alarm Notification Test	Annual	NA	
VPGAC Changeout	Annual	NA	
Blower Voltage and Current Check (3)	As Needed	No	

Notes:
1) Condensation shall be containerized and disposed of in coordination with Crosman Corporation's procedures.
2) System shall be shutdown prior to performing.
3) Lockout/tagout and work on energized equipment shall be conducted in accordance with Arcadis Safety Program.
4) Will cause system shutdown.
5) Knockout tank shall be filled with water using lower drain port.
6) Vacuum transmitters VT-101 and VT-201 shall read between +/- 5% of vacuum gauges VI-101 and VI-201, respectively.

Appendix C

Site Inspection Form

Site Inspection Form
Site Management Plan
Crosman Corporation, East Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date: October 26, 2022 **Time:** 1000 **Personnel:** Aaron D. Richardson

Compliance with Institutional Controls	**Conducted (Y/N)**	**Notes**
Is the site being utilized for uses other than General Industrial Use?	N	
Is the site operating in compliance with the Deed Restriction?	Y	
Performance of the Engineering Controls		
Is the SSDS operating?	Y	
Have SSDS monitoring sampling been conducted, per the SMP?	Y	
Any reported issues with the SSDS operation?	N	
Is production well PW-1 operating?	Y	
Has groundwater monitoring been conducted, per the SMP?	Y	Completed in April and October 2022
Any reported issues with production well PW-1?	N	
Is the concrete floor intact at the west end of the building?	Y	
Any cracks or holes identified?	N	
Any reported issues with the concrete floor cover system?	N	
Green Remediation Evaluation		
Are energy conservation controls being implemented?	Y	
Has any solid waste been generated?	N	
Is off-site waste transportation required?	N	
Have water and/or land usage requirements changed?	N	
Are any ecosystems being distrubed by the remedial activities?	N	

Notes:

Appendix D

NYSDEC Approvals

Richardson, Aaron

From: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Sent: Friday, October 9, 2020 10:21 AM
To: Richardson, Aaron
Cc: Pratt, David (DEC); Perretta, Anthony C (HEALTH); Popham, William; Pratt, David (DEC)
Subject: RE: Crosman Site SSDS

Aaron,
The Department approves the removal of control equipment for the SSDS discharge. Please include the results of the AERSCREEN modelling in the SMP. I have a few minor edits to the text in the SMP so don't send me a revised plan until I get those to you next week. Thanks.

-Todd

Todd M. Caffoe, P.E.
Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5350 |Todd.Caffoe@dec.ny.gov

www.dec.ny.gov |

From: Richardson, Aaron <Aaron.Richardson@arcadis.com>
Sent: Monday, September 21, 2020 2:25 PM
To: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Cc: Pratt, David (DEC) <david.pratt@dec.ny.gov>; Perretta, Anthony C (HEALTH) <anthony.perretta@health.ny.gov>; Popham, William <William.Popham@arcadis.com>
Subject: RE: Crosman Site SSDS

Todd,

As requested, please find the attached file which shows the AERSCREEN modelling inputs and results (compared against short and long term guidance concentrations). Please reply with your approval that these results satisfactorily show that carbon treatment can be terminated.

Regarding the SMP language, we have tracked the revisions to the text (in Red Line-Strike Out format) reflecting the termination of the carbon treatment. Please advise if you would like to review these changes (in RLSO) now, before we do a formal revision, or if you just want to see the formal revision after you hear from DOH?

If you have any questions, please let me know. Thank you

From: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Sent: Thursday, September 17, 2020 12:12 PM
To: Richardson, Aaron <Aaron.Richardson@arcadis.com>
Cc: Pratt, David (DEC) <david.pratt@dec.ny.gov>; Perretta, Anthony C (HEALTH) <anthony.perretta@health.ny.gov>; Popham, William <William.Popham@arcadis.com>
Subject: Re: Crosman Site SSDS

Hi Aaron,
I am fine with removal of the carbon treatment system as long as it meets Air-Guide 1. I expected discharge from the SSDS would not require controls after startup.

Just provide me with a copy of the results from the AERSCREEN modelling system compared to the short and long-term guidance concentrations.

Please feel free to revise the language in the SMP accordingly. I have not heard back from DOH yet on the SMP so don't send me the revised SMP until I hear from them.

Thanks. Please let me know if you have any additional questions.

-Todd

Due to the COVID-19 Health Crisis, I will mainly be working from home until further notice. Please e-mail if you need to reach me. If you need immediate assistance, please contact our unit secretary, Teri Cotter, at teri.cotter@dec.ny.gov or 585-226-5353, and she will direct your inquiry.

Todd M. Caffoe, P.E.

Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5350 |Todd.Caffoe@dec.ny.gov

From: Richardson, Aaron <Aaron.Richardson@arcadis.com>
Sent: Wednesday, September 16, 2020 1:24 PM
To: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Cc: Popham, William <William.Popham@arcadis.com>
Subject: Crosman Site SSDS

Hello Todd,

For the SSDS at the Crosman site, we were planning to change out the carbon later this fall, when the question was raised as to whether we actually needed to treat through carbon any longer. In order to determine this, we had our internal air experts evaluate the system, putting the 2020 analytical data, along with all of the site parameters, into the AERSCREEN modelling system. The resulting output indicates that we could direct discharge (without any treatment) and still be below, both the DAR-1 short and long-term guideline concentrations.

With that in mind, and knowing that the SMP is still pending approval, we were thinking that it may make sense to revise the language within the SMP (as it relates to SSDS treatment) now before it is finalized. Please let us know your thoughts on this, and also let us know what you would like to see from us to demonstrate that we can run the SSDS without treatment? Is a simple email summarizing the modelling inputs/outputs adequate and/or would you like to see a formal request (i.e. letter) to terminate treatment? Please advise, or let us know if you'd like to talk through details.

Aaron Richardson | Senior Environmental Engineer | aaron.richardson@arcadis.com
Arcadis | Arcadis of New York, Inc.
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Table 1
SSDS Aerscreen Inputs
Crosman Corporation
Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Parameters	Crossman SSDS Stack	Units
AERSCREEN Model Input		
Lanimator Stack (UTM E)	299769	m
Lanimator Stack (UTM N)	4752097	m
UTM Zone	18	
Source Type	Point	
Emission Rate	1	g/s
Stack Height	38	ft
Stack Height	11.58	m
Stack Inside Diameter	4	in
Stack Inside Diameter	0.102	m
Air Flow Rate	130	cfm
Stack Gas Exit Temperature	100	F
Stack Gas Exit Temperature	310.93	K
Rain Cap?	No	
Land use	Rural	
Stack Orientation	Vertical	
Building Info	BPIP used	ft
Shortest Distance to Property Line	114.00	m

Table 2
SSDS Aerscreen Results
Crosman Corporation
Bloomfield, New York

Pollutant	Emission Rates		Aerscreen impact at 1 g/s (ug/m3/g/s)		Scaled Impact (ug/m3)		Guideline Conc. (ug/m3)	
	lb/hr	g/s	1-hr	Annual	1-hr	Annual	1-hr	Annual
TCE	1.62E-03	2.04E-04	1741.00	174.1	0.36	0.036	20.00	0.20

Table 3
SSDS Aerscreen Inputs TCE Calculations
Crosman Corporation
Bloomfield, New York

ARCADIS Design & Consultancy for natural and built assets

Date	TCE (ug/m3)	TCE (ug/m3)	Influent Flow Rate (scfm)[1]	Post-Dilution Flow Rate (scfm)[2]	Stack Exit Concentration (ug/m3)	Emission Rate (lb/hr)
1/29/2020	16000 D	16,000	27	130	3323.08	0.00162
2/26/2020	17000 D	17000	21	130	2746.15	0.00134
3/31/2020	11000	11000	26	130	2200.00	0.00107
4/22/2020	6500 D	6500	21	130	1050.00	0.00051
5/27/2020	12000 D	12000	23	130	2123.08	0.00103
6/23/2020	11000	11000	19	130	1607.69	0.00078
7/22/2020	9700	9700	22	130	1641.54	0.00080

(1) Based on anemometer readings at suction points SDS-1 and SDS-2, converted from acfm to scfm.
(2) Typical value, based on blower performance curve.

lb/hr = ug/m3 x 1 g/1,000,000 ug x lb/453.59 g x scfm x 0.028 m3/ft3 x 60 min/hr

Richardson, Aaron

From: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Sent: Friday, December 2, 2022 11:44 AM
To: Richardson, Aaron
Cc: Pratt, David (DEC)
Subject: RE: Crosman Site

Hi Aaron
It will be acceptable to use passive diffusion bag samplers going forward. There is plenty of data available for this site so if anything odd shows up with the change in sampling methodology we will know. Passive diffusion bag sampling methods are used at several sites throughout the region.

I have accepted a promotion to the Division of Water and will no longer be the contact for this project. A new DEC Project Manager has not yet been assigned. In the interim, please send correspondence to David Pratt until otherwise directed. It has been good working with you over the many years on this project and others.

Thank you.

-Todd

From: Richardson, Aaron <Aaron.Richardson@arcadis.com>
Sent: Wednesday, November 23, 2022 9:11 AM
To: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>
Subject: Crosman Site

Good morning Todd,

We are preparing our report for the GW sampling at the Crosman site (no surprises, data is consistent with past results), and also putting together our cost estimates for 2023. I would like to switch the site over to passive diffusion bag samplers (from the current dedicated bailers with a 3 volume purge). Before I put that as a recommendation in the report, and put money in our budget, I wanted to run that by you. Please let me know your thoughts; would you need to see any supporting information/justification/etc.?

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Appendix E

SSDS Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-63844-1
Laboratory Sample Delivery Group: 200-63844-1
Client Project/Site: Crosman Vapor

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

Attn: Christopher Davern

Authorized for release by:
6/23/2022 12:56:20 PM

Elizabeth Nye, Project Manager I
(802)923-1029
Elizabeth.Nye@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-63844-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Crosman Vapor

Report Number: 200-63844-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 06/17/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SDS-1-061622, SDS-2-061622, COMBINED INFLUENT-061622, PRE-VPGAC4-061622, POST-DILUTION EFF-061622 and POST-BLOWER EFF-061622 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 06/21/2022 and 06/22/2022.

Samples SDS-1-061622[200X], SDS-1-061622[50X], SDS-2-061622[100X], SDS-2-061622[25X], COMBINED INFLUENT-061622[125X], COMBINED INFLUENT-061622[25X], PRE-VPGAC4-061622[200X], PRE-VPGAC4-061622[50X], POST-DILUTION EFF-061622[10X] and POST-BLOWER EFF-061622[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Client Sample ID: SDS-1-061622 — Lab Sample ID: 200-63844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		2.5	1.7	ppb v/v	50		TO-15	Total/NA
Tetrachloroethene	96		10	1.4	ppb v/v	50		TO-15	Total/NA
Trichloroethene - DL	2700	D	7.0	4.8	ppb v/v	200		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		9.9	6.5	ug/m3	50		TO-15	Total/NA
Tetrachloroethene	650		68	9.2	ug/m3	50		TO-15	Total/NA
Trichloroethene - DL	14000	D	38	26	ug/m3	200		TO-15	Total/NA

Client Sample ID: SDS-2-061622 — Lab Sample ID: 200-63844-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	48		1.3	0.83	ppb v/v	25		TO-15	Total/NA
1,2-Dichloroethene, Total	48		10	4.5	ppb v/v	25		TO-15	Total/NA
Tetrachloroethene	3.8	J	5.0	0.68	ppb v/v	25		TO-15	Total/NA
Trichloroethene - DL	2000	D	3.5	2.4	ppb v/v	100		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		5.0	3.3	ug/m3	25		TO-15	Total/NA
1,2-Dichloroethene, Total	190		40	18	ug/m3	25		TO-15	Total/NA
Tetrachloroethene	26	J	34	4.6	ug/m3	25		TO-15	Total/NA
Trichloroethene - DL	11000	D	19	13	ug/m3	100		TO-15	Total/NA

Client Sample ID: COMBINED INFLUENT-061622 — Lab Sample ID: 200-63844-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	41		1.3	0.83	ppb v/v	25		TO-15	Total/NA
1,2-Dichloroethene, Total	41		10	4.5	ppb v/v	25		TO-15	Total/NA
Tetrachloroethene	29		5.0	0.68	ppb v/v	25		TO-15	Total/NA
Trichloroethene - DL	2400	D	4.4	3.0	ppb v/v	125		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		5.0	3.3	ug/m3	25		TO-15	Total/NA
1,2-Dichloroethene, Total	160		40	18	ug/m3	25		TO-15	Total/NA
Tetrachloroethene	200		34	4.6	ug/m3	25		TO-15	Total/NA
Trichloroethene - DL	13000	D	24	16	ug/m3	125		TO-15	Total/NA

Client Sample ID: PRE-VPGAC4-061622 — Lab Sample ID: 200-63844-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	49		2.5	1.7	ppb v/v	50		TO-15	Total/NA
1,2-Dichloroethene, Total	49		20	9.0	ppb v/v	50		TO-15	Total/NA
Trichloroethene - DL	2600	D	7.0	4.8	ppb v/v	200		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		9.9	6.5	ug/m3	50		TO-15	Total/NA
1,2-Dichloroethene, Total	190		79	36	ug/m3	50		TO-15	Total/NA
Trichloroethene - DL	14000	D	38	26	ug/m3	200		TO-15	Total/NA

Client Sample ID: POST-DILUTION EFF-061622 — Lab Sample ID: 200-63844-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	53		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	53		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Trichloroethene	3.0		0.35	0.24	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client Sample ID: POST-DILUTION EFF-061622 (Continued) — Lab Sample ID: 200-63844-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	210		16	7.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	16		1.9	1.3	ug/m3	10		TO-15	Total/NA

Client Sample ID: POST-BLOWER EFF-061622 — Lab Sample ID: 200-63844-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	45		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1.4		0.35	0.24	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	180		16	7.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	7.5		1.9	1.3	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Client Sample ID: SDS-1-061622
Date Collected: 06/16/22 12:50
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-63844-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.9	U	3.9	1.4	ppb v/v			06/21/22 19:53	50
1,1-Dichloroethene	1.8	U	1.8	1.5	ppb v/v			06/21/22 19:53	50
Acetone	250	U	250	100	ppb v/v			06/21/22 19:53	50
Methylene Chloride	25	U	25	8.5	ppb v/v			06/21/22 19:53	50
trans-1,2-Dichloroethene	10	U	10	4.4	ppb v/v			06/21/22 19:53	50
1,1-Dichloroethane	10	U	10	1.5	ppb v/v			06/21/22 19:53	50
cis-1,2-Dichloroethene	**2.7**		2.5	1.7	ppb v/v			06/21/22 19:53	50
1,2-Dichloroethene, Total	20	U	20	9.0	ppb v/v			06/21/22 19:53	50
1,1,1-Trichloroethane	10	U	10	2.0	ppb v/v			06/21/22 19:53	50
Carbon tetrachloride	1.8	U	1.8	1.6	ppb v/v			06/21/22 19:53	50
Benzene	10	U	10	3.7	ppb v/v			06/21/22 19:53	50
Toluene	10	U	10	4.7	ppb v/v			06/21/22 19:53	50
Tetrachloroethene	**96**		10	1.4	ppb v/v			06/21/22 19:53	50
Chlorobenzene	10	U	10	2.2	ppb v/v			06/21/22 19:53	50
m,p-Xylene	25	U	25	8.5	ppb v/v			06/21/22 19:53	50
Xylene, o-	10	U	10	4.7	ppb v/v			06/21/22 19:53	50
Bromoform	10	U	10	2.9	ppb v/v			06/21/22 19:53	50
1,1,2,2-Tetrachloroethane	10	U	10	2.2	ppb v/v			06/21/22 19:53	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	10	U	10	3.6	ug/m3			06/21/22 19:53	50
1,1-Dichloroethene	6.9	U	6.9	5.7	ug/m3			06/21/22 19:53	50
Acetone	590	U	590	240	ug/m3			06/21/22 19:53	50
Methylene Chloride	87	U	87	30	ug/m3			06/21/22 19:53	50
trans-1,2-Dichloroethene	40	U	40	17	ug/m3			06/21/22 19:53	50
1,1-Dichloroethane	40	U	40	5.9	ug/m3			06/21/22 19:53	50
cis-1,2-Dichloroethene	**11**		9.9	6.5	ug/m3			06/21/22 19:53	50
1,2-Dichloroethene, Total	79	U	79	36	ug/m3			06/21/22 19:53	50
1,1,1-Trichloroethane	55	U	55	11	ug/m3			06/21/22 19:53	50
Carbon tetrachloride	11	U	11	10	ug/m3			06/21/22 19:53	50
Benzene	32	U	32	12	ug/m3			06/21/22 19:53	50
Toluene	38	U	38	18	ug/m3			06/21/22 19:53	50
Tetrachloroethene	**650**		68	9.2	ug/m3			06/21/22 19:53	50
Chlorobenzene	46	U	46	9.9	ug/m3			06/21/22 19:53	50
m,p-Xylene	110	U	110	37	ug/m3			06/21/22 19:53	50
Xylene, o-	43	U	43	20	ug/m3			06/21/22 19:53	50
Bromoform	100	U	100	30	ug/m3			06/21/22 19:53	50
1,1,2,2-Tetrachloroethane	69	U	69	15	ug/m3			06/21/22 19:53	50

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2700**	**D**	7.0	4.8	ppb v/v			06/21/22 20:47	200

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**14000**	**D**	38	26	ug/m3			06/21/22 20:47	200

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Client Sample ID: SDS-2-061622
Date Collected: 06/16/22 12:55
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-63844-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.70	ppb v/v			06/21/22 21:41	25
1,1-Dichloroethene	0.88	U	0.88	0.73	ppb v/v			06/21/22 21:41	25
Acetone	130	U	130	50	ppb v/v			06/21/22 21:41	25
Methylene Chloride	13	U	13	4.3	ppb v/v			06/21/22 21:41	25
trans-1,2-Dichloroethene	5.0	U	5.0	2.2	ppb v/v			06/21/22 21:41	25
1,1-Dichloroethane	5.0	U	5.0	0.73	ppb v/v			06/21/22 21:41	25
cis-1,2-Dichloroethene	**48**		1.3	0.83	ppb v/v			06/21/22 21:41	25
1,2-Dichloroethene, Total	**48**		10	4.5	ppb v/v			06/21/22 21:41	25
1,1,1-Trichloroethane	5.0	U	5.0	0.98	ppb v/v			06/21/22 21:41	25
Carbon tetrachloride	0.88	U	0.88	0.80	ppb v/v			06/21/22 21:41	25
Benzene	5.0	U	5.0	1.9	ppb v/v			06/21/22 21:41	25
Toluene	5.0	U	5.0	2.3	ppb v/v			06/21/22 21:41	25
Tetrachloroethene	**3.8**	**J**	5.0	0.68	ppb v/v			06/21/22 21:41	25
Chlorobenzene	5.0	U	5.0	1.1	ppb v/v			06/21/22 21:41	25
m,p-Xylene	13	U	13	4.3	ppb v/v			06/21/22 21:41	25
Xylene, o-	5.0	U	5.0	2.4	ppb v/v			06/21/22 21:41	25
Bromoform	5.0	U	5.0	1.5	ppb v/v			06/21/22 21:41	25
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ppb v/v			06/21/22 21:41	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	1.8	ug/m3			06/21/22 21:41	25
1,1-Dichloroethene	3.5	U	3.5	2.9	ug/m3			06/21/22 21:41	25
Acetone	300	U	300	120	ug/m3			06/21/22 21:41	25
Methylene Chloride	43	U	43	15	ug/m3			06/21/22 21:41	25
trans-1,2-Dichloroethene	20	U	20	8.7	ug/m3			06/21/22 21:41	25
1,1-Dichloroethane	20	U	20	2.9	ug/m3			06/21/22 21:41	25
cis-1,2-Dichloroethene	**190**		5.0	3.3	ug/m3			06/21/22 21:41	25
1,2-Dichloroethene, Total	**190**		40	18	ug/m3			06/21/22 21:41	25
1,1,1-Trichloroethane	27	U	27	5.3	ug/m3			06/21/22 21:41	25
Carbon tetrachloride	5.5	U	5.5	5.0	ug/m3			06/21/22 21:41	25
Benzene	16	U	16	5.9	ug/m3			06/21/22 21:41	25
Toluene	19	U	19	8.8	ug/m3			06/21/22 21:41	25
Tetrachloroethene	**26**	**J**	34	4.6	ug/m3			06/21/22 21:41	25
Chlorobenzene	23	U	23	4.9	ug/m3			06/21/22 21:41	25
m,p-Xylene	54	U	54	18	ug/m3			06/21/22 21:41	25
Xylene, o-	22	U	22	10	ug/m3			06/21/22 21:41	25
Bromoform	52	U	52	15	ug/m3			06/21/22 21:41	25
1,1,2,2-Tetrachloroethane	34	U	34	7.4	ug/m3			06/21/22 21:41	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2000**	**D**	3.5	2.4	ppb v/v			06/21/22 22:35	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**11000**	**D**	19	13	ug/m3			06/21/22 22:35	100

Client Sample ID: COMBINED INFLUENT-061622

Lab Sample ID: 200-63844-3

Date Collected: 06/16/22 13:00
Matrix: Air
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.70	ppb v/v			06/21/22 23:29	25
1,1-Dichloroethene	0.88	U	0.88	0.73	ppb v/v			06/21/22 23:29	25
Acetone	130	U	130	50	ppb v/v			06/21/22 23:29	25
Methylene Chloride	13	U	13	4.3	ppb v/v			06/21/22 23:29	25
trans-1,2-Dichloroethene	5.0	U	5.0	2.2	ppb v/v			06/21/22 23:29	25
1,1-Dichloroethane	5.0	U	5.0	0.73	ppb v/v			06/21/22 23:29	25
cis-1,2-Dichloroethene	**41**		1.3	0.83	ppb v/v			06/21/22 23:29	25
1,2-Dichloroethene, Total	**41**		10	4.5	ppb v/v			06/21/22 23:29	25
1,1,1-Trichloroethane	5.0	U	5.0	0.98	ppb v/v			06/21/22 23:29	25
Carbon tetrachloride	0.88	U	0.88	0.80	ppb v/v			06/21/22 23:29	25
Benzene	5.0	U	5.0	1.9	ppb v/v			06/21/22 23:29	25
Toluene	5.0	U	5.0	2.3	ppb v/v			06/21/22 23:29	25
Tetrachloroethene	**29**		5.0	0.68	ppb v/v			06/21/22 23:29	25
Chlorobenzene	5.0	U	5.0	1.1	ppb v/v			06/21/22 23:29	25
m,p-Xylene	13	U	13	4.3	ppb v/v			06/21/22 23:29	25
Xylene, o-	5.0	U	5.0	2.4	ppb v/v			06/21/22 23:29	25
Bromoform	5.0	U	5.0	1.5	ppb v/v			06/21/22 23:29	25
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ppb v/v			06/21/22 23:29	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	1.8	ug/m3			06/21/22 23:29	25
1,1-Dichloroethene	3.5	U	3.5	2.9	ug/m3			06/21/22 23:29	25
Acetone	300	U	300	120	ug/m3			06/21/22 23:29	25
Methylene Chloride	43	U	43	15	ug/m3			06/21/22 23:29	25
trans-1,2-Dichloroethene	20	U	20	8.7	ug/m3			06/21/22 23:29	25
1,1-Dichloroethane	20	U	20	2.9	ug/m3			06/21/22 23:29	25
cis-1,2-Dichloroethene	**160**		5.0	3.3	ug/m3			06/21/22 23:29	25
1,2-Dichloroethene, Total	**160**		40	18	ug/m3			06/21/22 23:29	25
1,1,1-Trichloroethane	27	U	27	5.3	ug/m3			06/21/22 23:29	25
Carbon tetrachloride	5.5	U	5.5	5.0	ug/m3			06/21/22 23:29	25
Benzene	16	U	16	5.9	ug/m3			06/21/22 23:29	25
Toluene	19	U	19	8.8	ug/m3			06/21/22 23:29	25
Tetrachloroethene	**200**		34	4.6	ug/m3			06/21/22 23:29	25
Chlorobenzene	23	U	23	4.9	ug/m3			06/21/22 23:29	25
m,p-Xylene	54	U	54	18	ug/m3			06/21/22 23:29	25
Xylene, o-	22	U	22	10	ug/m3			06/21/22 23:29	25
Bromoform	52	U	52	15	ug/m3			06/21/22 23:29	25
1,1,2,2-Tetrachloroethane	34	U	34	7.4	ug/m3			06/21/22 23:29	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2400**	**D**	4.4	3.0	ppb v/v			06/22/22 00:23	125

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**13000**	**D**	24	16	ug/m3			06/22/22 00:23	125

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Client Sample ID: PRE-VPGAC4-061622
Date Collected: 06/16/22 13:05
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-63844-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.9	U	3.9	1.4	ppb v/v			06/22/22 01:17	50
1,1-Dichloroethene	1.8	U	1.8	1.5	ppb v/v			06/22/22 01:17	50
Acetone	250	U	250	100	ppb v/v			06/22/22 01:17	50
Methylene Chloride	25	U	25	8.5	ppb v/v			06/22/22 01:17	50
trans-1,2-Dichloroethene	10	U	10	4.4	ppb v/v			06/22/22 01:17	50
1,1-Dichloroethane	10	U	10	1.5	ppb v/v			06/22/22 01:17	50
cis-1,2-Dichloroethene	**49**		2.5	1.7	ppb v/v			06/22/22 01:17	50
1,2-Dichloroethene, Total	**49**		20	9.0	ppb v/v			06/22/22 01:17	50
1,1,1-Trichloroethane	10	U	10	2.0	ppb v/v			06/22/22 01:17	50
Carbon tetrachloride	1.8	U	1.8	1.6	ppb v/v			06/22/22 01:17	50
Benzene	10	U	10	3.7	ppb v/v			06/22/22 01:17	50
Toluene	10	U	10	4.7	ppb v/v			06/22/22 01:17	50
Tetrachloroethene	10	U	10	1.4	ppb v/v			06/22/22 01:17	50
Chlorobenzene	10	U	10	2.2	ppb v/v			06/22/22 01:17	50
m,p-Xylene	25	U	25	8.5	ppb v/v			06/22/22 01:17	50
Xylene, o-	10	U	10	4.7	ppb v/v			06/22/22 01:17	50
Bromoform	10	U	10	2.9	ppb v/v			06/22/22 01:17	50
1,1,2,2-Tetrachloroethane	10	U	10	2.2	ppb v/v			06/22/22 01:17	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	10	U	10	3.6	ug/m3			06/22/22 01:17	50
1,1-Dichloroethene	6.9	U	6.9	5.7	ug/m3			06/22/22 01:17	50
Acetone	590	U	590	240	ug/m3			06/22/22 01:17	50
Methylene Chloride	87	U	87	30	ug/m3			06/22/22 01:17	50
trans-1,2-Dichloroethene	40	U	40	17	ug/m3			06/22/22 01:17	50
1,1-Dichloroethane	40	U	40	5.9	ug/m3			06/22/22 01:17	50
cis-1,2-Dichloroethene	**190**		9.9	6.5	ug/m3			06/22/22 01:17	50
1,2-Dichloroethene, Total	**190**		79	36	ug/m3			06/22/22 01:17	50
1,1,1-Trichloroethane	55	U	55	11	ug/m3			06/22/22 01:17	50
Carbon tetrachloride	11	U	11	10	ug/m3			06/22/22 01:17	50
Benzene	32	U	32	12	ug/m3			06/22/22 01:17	50
Toluene	38	U	38	18	ug/m3			06/22/22 01:17	50
Tetrachloroethene	68	U	68	9.2	ug/m3			06/22/22 01:17	50
Chlorobenzene	46	U	46	9.9	ug/m3			06/22/22 01:17	50
m,p-Xylene	110	U	110	37	ug/m3			06/22/22 01:17	50
Xylene, o-	43	U	43	20	ug/m3			06/22/22 01:17	50
Bromoform	100	U	100	30	ug/m3			06/22/22 01:17	50
1,1,2,2-Tetrachloroethane	69	U	69	15	ug/m3			06/22/22 01:17	50

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2600**	**D**	7.0	4.8	ppb v/v			06/22/22 02:11	200

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**14000**	**D**	38	26	ug/m3			06/22/22 02:11	200

Client Sample ID: POST-DILUTION EFF-061622

Lab Sample ID: 200-63844-5

Date Collected: 06/16/22 13:10
Matrix: Air
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.28	ppb v/v			06/22/22 03:05	10
1,1-Dichloroethene	0.35	U	0.35	0.29	ppb v/v			06/22/22 03:05	10
Acetone	50	U	50	20	ppb v/v			06/22/22 03:05	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			06/22/22 03:05	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			06/22/22 03:05	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			06/22/22 03:05	10
cis-1,2-Dichloroethene	**53**		0.50	0.33	ppb v/v			06/22/22 03:05	10
1,2-Dichloroethene, Total	**53**		4.0	1.8	ppb v/v			06/22/22 03:05	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			06/22/22 03:05	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			06/22/22 03:05	10
Benzene	2.0	U	2.0	0.74	ppb v/v			06/22/22 03:05	10
Trichloroethene	**3.0**		0.35	0.24	ppb v/v			06/22/22 03:05	10
Toluene	2.0	U	2.0	0.93	ppb v/v			06/22/22 03:05	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			06/22/22 03:05	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			06/22/22 03:05	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			06/22/22 03:05	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			06/22/22 03:05	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/22/22 03:05	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			06/22/22 03:05	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			06/22/22 03:05	10
1,1-Dichloroethene	1.4	U	1.4	1.1	ug/m3			06/22/22 03:05	10
Acetone	120	U	120	48	ug/m3			06/22/22 03:05	10
Methylene Chloride	17	U	17	5.9	ug/m3			06/22/22 03:05	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			06/22/22 03:05	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			06/22/22 03:05	10
cis-1,2-Dichloroethene	**210**		2.0	1.3	ug/m3			06/22/22 03:05	10
1,2-Dichloroethene, Total	**210**		16	7.1	ug/m3			06/22/22 03:05	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			06/22/22 03:05	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			06/22/22 03:05	10
Benzene	6.4	U	6.4	2.4	ug/m3			06/22/22 03:05	10
Trichloroethene	**16**		1.9	1.3	ug/m3			06/22/22 03:05	10
Toluene	7.5	U	7.5	3.5	ug/m3			06/22/22 03:05	10
Tetrachloroethene	14	U	14	1.8	ug/m3			06/22/22 03:05	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			06/22/22 03:05	10
m,p-Xylene	22	U	22	7.4	ug/m3			06/22/22 03:05	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			06/22/22 03:05	10
Bromoform	21	U	21	6.0	ug/m3			06/22/22 03:05	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			06/22/22 03:05	10

Client Sample ID: POST-BLOWER EFF-061622

Lab Sample ID: 200-63844-6

Date Collected: 06/16/22 13:15
Matrix: Air
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.28	ppb v/v			06/22/22 03:59	10
1,1-Dichloroethene	0.35	U	0.35	0.29	ppb v/v			06/22/22 03:59	10

Client Sample ID: POST-BLOWER EFF-061622
Lab Sample ID: 200-63844-6
Date Collected: 06/16/22 13:15
Matrix: Air
Date Received: 06/17/22 10:40
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50	U	50	20	ppb v/v			06/22/22 03:59	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			06/22/22 03:59	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			06/22/22 03:59	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			06/22/22 03:59	10
cis-1,2-Dichloroethene	**45**		0.50	0.33	ppb v/v			06/22/22 03:59	10
1,2-Dichloroethene, Total	**45**		4.0	1.8	ppb v/v			06/22/22 03:59	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			06/22/22 03:59	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			06/22/22 03:59	10
Benzene	2.0	U	2.0	0.74	ppb v/v			06/22/22 03:59	10
Trichloroethene	**1.4**		0.35	0.24	ppb v/v			06/22/22 03:59	10
Toluene	2.0	U	2.0	0.93	ppb v/v			06/22/22 03:59	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			06/22/22 03:59	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			06/22/22 03:59	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			06/22/22 03:59	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			06/22/22 03:59	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/22/22 03:59	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			06/22/22 03:59	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			06/22/22 03:59	10
1,1-Dichloroethene	1.4	U	1.4	1.1	ug/m3			06/22/22 03:59	10
Acetone	120	U	120	48	ug/m3			06/22/22 03:59	10
Methylene Chloride	17	U	17	5.9	ug/m3			06/22/22 03:59	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			06/22/22 03:59	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			06/22/22 03:59	10
cis-1,2-Dichloroethene	**180**		2.0	1.3	ug/m3			06/22/22 03:59	10
1,2-Dichloroethene, Total	**180**		16	7.1	ug/m3			06/22/22 03:59	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			06/22/22 03:59	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			06/22/22 03:59	10
Benzene	6.4	U	6.4	2.4	ug/m3			06/22/22 03:59	10
Trichloroethene	**7.5**		1.9	1.3	ug/m3			06/22/22 03:59	10
Toluene	7.5	U	7.5	3.5	ug/m3			06/22/22 03:59	10
Tetrachloroethene	14	U	14	1.8	ug/m3			06/22/22 03:59	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			06/22/22 03:59	10
m,p-Xylene	22	U	22	7.4	ug/m3			06/22/22 03:59	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			06/22/22 03:59	10
Bromoform	21	U	21	6.0	ug/m3			06/22/22 03:59	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			06/22/22 03:59	10

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-180949/4
Matrix: Air
Analysis Batch: 180949

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			06/21/22 09:54	1
1,1-Dichloroethene	0.035	U	0.035	0.029	ppb v/v			06/21/22 09:54	1
Acetone	5.0	U	5.0	2.0	ppb v/v			06/21/22 09:54	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			06/21/22 09:54	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			06/21/22 09:54	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			06/21/22 09:54	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			06/21/22 09:54	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.18	ppb v/v			06/21/22 09:54	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			06/21/22 09:54	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			06/21/22 09:54	1
Benzene	0.20	U	0.20	0.074	ppb v/v			06/21/22 09:54	1
Trichloroethene	0.035	U	0.035	0.024	ppb v/v			06/21/22 09:54	1
Toluene	0.20	U	0.20	0.093	ppb v/v			06/21/22 09:54	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			06/21/22 09:54	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			06/21/22 09:54	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			06/21/22 09:54	1
Xylene, o-	0.20	U	0.20	0.094	ppb v/v			06/21/22 09:54	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			06/21/22 09:54	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			06/21/22 09:54	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			06/21/22 09:54	1
1,1-Dichloroethene	0.14	U	0.14	0.11	ug/m3			06/21/22 09:54	1
Acetone	12	U	12	4.8	ug/m3			06/21/22 09:54	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			06/21/22 09:54	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			06/21/22 09:54	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			06/21/22 09:54	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			06/21/22 09:54	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.71	ug/m3			06/21/22 09:54	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			06/21/22 09:54	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			06/21/22 09:54	1
Benzene	0.64	U	0.64	0.24	ug/m3			06/21/22 09:54	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			06/21/22 09:54	1
Toluene	0.75	U	0.75	0.35	ug/m3			06/21/22 09:54	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			06/21/22 09:54	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			06/21/22 09:54	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			06/21/22 09:54	1
Xylene, o-	0.87	U	0.87	0.41	ug/m3			06/21/22 09:54	1
Bromoform	2.1	U	2.1	0.60	ug/m3			06/21/22 09:54	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			06/21/22 09:54	1

Lab Sample ID: LCS 200-180949/3
Matrix: Air
Analysis Batch: 180949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			10.0	9.89		ppb v/v		99	61 - 135		
1,1-Dichloroethene			10.0	9.49		ppb v/v		95	68 - 120		
Acetone			10.0	9.41		ppb v/v		94	54 - 154		

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-180949/3
Matrix: Air
Analysis Batch: 180949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	10.0	9.19		ppb v/v		92	59 - 137
trans-1,2-Dichloroethene	10.0	9.49		ppb v/v		95	69 - 137
1,1-Dichloroethane	10.0	9.12		ppb v/v		91	66 - 130
cis-1,2-Dichloroethene	10.0	9.77		ppb v/v		98	72 - 121
1,1,1-Trichloroethane	10.0	9.68		ppb v/v		97	72 - 127
Carbon tetrachloride	10.0	9.95		ppb v/v		100	71 - 133
Benzene	10.0	9.78		ppb v/v		98	73 - 119
Trichloroethene	10.0	9.23		ppb v/v		92	73 - 122
Toluene	10.0	10.3		ppb v/v		103	75 - 122
Tetrachloroethene	10.0	10.5		ppb v/v		105	70 - 125
Chlorobenzene	10.0	10.2		ppb v/v		102	76 - 119
m,p-Xylene	20.0	20.7		ppb v/v		104	76 - 121
Xylene, o-	10.0	10.3		ppb v/v		103	73 - 123
Bromoform	10.0	10.8		ppb v/v		108	53 - 149
1,1,2,2-Tetrachloroethane	10.0	10.0		ppb v/v		100	74 - 126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	26	25.3		ug/m3		99	61 - 135
1,1-Dichloroethene	40	37.6		ug/m3		95	68 - 120
Acetone	24	22.4		ug/m3		94	54 - 154
Methylene Chloride	35	31.9		ug/m3		92	59 - 137
trans-1,2-Dichloroethene	40	37.6		ug/m3		95	69 - 137
1,1-Dichloroethane	40	36.9		ug/m3		91	66 - 130
cis-1,2-Dichloroethene	40	38.7		ug/m3		98	72 - 121
1,1,1-Trichloroethane	55	52.8		ug/m3		97	72 - 127
Carbon tetrachloride	63	62.6		ug/m3		100	71 - 133
Benzene	32	31.2		ug/m3		98	73 - 119
Trichloroethene	54	49.6		ug/m3		92	73 - 122
Toluene	38	38.7		ug/m3		103	75 - 122
Tetrachloroethene	68	71.4		ug/m3		105	70 - 125
Chlorobenzene	46	46.9		ug/m3		102	76 - 119
m,p-Xylene	87	90.0		ug/m3		104	76 - 121
Xylene, o-	43	44.6		ug/m3		103	73 - 123
Bromoform	100	111		ug/m3		108	53 - 149
1,1,2,2-Tetrachloroethane	69	68.8		ug/m3		100	74 - 126

Air - GC/MS VOA

Analysis Batch: 180949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-63844-1	SDS-1-061622	Total/NA	Air	TO-15	
200-63844-1 - DL	SDS-1-061622	Total/NA	Air	TO-15	
200-63844-2	SDS-2-061622	Total/NA	Air	TO-15	
200-63844-2 - DL	SDS-2-061622	Total/NA	Air	TO-15	
200-63844-3	COMBINED INFLUENT-061622	Total/NA	Air	TO-15	
200-63844-3 - DL	COMBINED INFLUENT-061622	Total/NA	Air	TO-15	
200-63844-4	PRE-VPGAC4-061622	Total/NA	Air	TO-15	
200-63844-4 - DL	PRE-VPGAC4-061622	Total/NA	Air	TO-15	
200-63844-5	POST-DILUTION EFF-061622	Total/NA	Air	TO-15	
200-63844-6	POST-BLOWER EFF-061622	Total/NA	Air	TO-15	
MB 200-180949/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-180949/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Client Sample ID: SDS-1-061622
Lab Sample ID: 200-63844-1
Date Collected: 06/16/22 12:50
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		50	180949	06/21/22 19:53	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	200	180949	06/21/22 20:47	A1B	TAL BUR

Client Sample ID: SDS-2-061622
Lab Sample ID: 200-63844-2
Date Collected: 06/16/22 12:55
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		25	180949	06/21/22 21:41	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	100	180949	06/21/22 22:35	A1B	TAL BUR

Client Sample ID: COMBINED INFLUENT-061622
Lab Sample ID: 200-63844-3
Date Collected: 06/16/22 13:00
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		25	180949	06/21/22 23:29	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	125	180949	06/22/22 00:23	A1B	TAL BUR

Client Sample ID: PRE-VPGAC4-061622
Lab Sample ID: 200-63844-4
Date Collected: 06/16/22 13:05
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		50	180949	06/22/22 01:17	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	200	180949	06/22/22 02:11	A1B	TAL BUR

Client Sample ID: POST-DILUTION EFF-061622
Lab Sample ID: 200-63844-5
Date Collected: 06/16/22 13:10
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	180949	06/22/22 03:05	A1B	TAL BUR

Client Sample ID: POST-BLOWER EFF-061622
Lab Sample ID: 200-63844-6
Date Collected: 06/16/22 13:15
Matrix: Air
Date Received: 06/17/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	180949	06/22/22 03:59	A1B	TAL BUR

Laboratory References:
TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-63844-1
SDG: 200-63844-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-63844-1	SDS-1-061622	Air	06/16/22 12:50	06/17/22 10:40	Air Canister (1-Liter) #4654
200-63844-2	SDS-2-061622	Air	06/16/22 12:55	06/17/22 10:40	Air Canister (1-Liter) #6461
200-63844-3	COMBINED INFLUENT-061622	Air	06/16/22 13:00	06/17/22 10:40	Air Canister (1-Liter) #34000993
200-63844-4	PRE-VPGAC4-061622	Air	06/16/22 13:05	06/17/22 10:40	Air Canister (1-Liter) #34000330
200-63844-5	POST-DILUTION EFF-061622	Air	06/16/22 13:10	06/17/22 10:40	Air Canister (1-Liter) #4863
200-63844-6	POST-BLOWER EFF-061622	Air	06/16/22 13:15	06/17/22 10:40	Air Canister (1-Liter) #5934

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-63844	06/17/22	15:30	29.2	22	G16	CC

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		N o	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		N o	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-63844-A-1	4654	-7.3	N				34000231-50533	GRAB
200-63844-A-2	6461	-7.4	N				4860-50726	GRAB
200-63844-A-3	34000993	-7.6	N				4851-50641	GRAB
200-63844-A-4	34000330	-7.6	N				6432-50837	GRAB
200-63844-A-5	4863	-2.0	N				4860-50726	GRAB
200-63844-A-6	5934	-7.6	N				4860-50726	GRAB

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802 660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Aaron Richardson	**Samples Collected By:** Ryan Clare	COC No: 1 of 1 COCs
Company Name: Arcadis	**Phone:** 585-662-4024		
Address 100 Chestnut St Suite 1020	**Email:** aaron.richardson@arcadis.com		TALS Project #:
City/State/Zip Rochester, NY 14604	**Site Contact:** Ryan Clare		**For Lab Use Only:** Walk-in Client:
Phone: 585-880-7747	**Tel/Fax** 585-880-7747		Lab Sampling:
FAX	**Analysis Turnaround Time**		Job / SDG No:
Project Name Crosman Corporation	Standard (Specific) 10 day		(See below for Add'l Items)
Site/Location. East Bloomfield, NY	Rush (Specifiy)		
P O #			

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SDS-1-061622	6/16/22	–	–	1250	-29	-6	–	4654	X														
SDS-2-061622		–	–	1255	-29.5	-6	–	6461	X														
Combined Influent-061622		–	–	1300	-29.5	-6	–	34000993	X														
Pre-VPGAC4-061622		–	–	1305	-29.5	-6	–	34000330	X														
Post-Dilution Eff-061622		–	–	1310	-30	-6	–	5934	X														
Post-Blower Eff-061622		–	–	1315	-29.5	-6	–	4863	X														

200-63844 COC

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop		88 °F	

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Ryan Clare	**Date / Time:** 6-16 22 1500	**Samples Received by:** Samp. Bcm ETA BUR 6/17/22 10:35
Samples Relinquished by:	**Date / Time:**	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**


ORIGIN ID:ROCA (585) 880-7747
ARCADIS
100 CHESTNUT ST STE 1020
ROCHESTER, NY 14604
UNITED STATES US

SHIP DATE: 16JUN22
ACTWGT: 17.35 LB
CAD: 6994893/SSFE2321
DIMS: 20x12x10 IN
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA
30 COMMUNITY DR STE 11

BURLINGTON VT 05401
(000) 000-0000
INV:
PO:
REF:
DEPT:

Part # 156297-XXX-XXXXX-Exx 01/23

FedEx Express

TRK# 0201 2744 2876 4480

FRI - 17 JUN 4:30P
STANDARD OVERNIGHT

XE BTVA

05401
VT-US BTV

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-63844-1
SDG Number: 200-63844-1

Login Number: 63844
List Number: 1
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1918950, -951
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10	100	4/22/2022	1451	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	8969	1.08	1.08	0	29.9	G26	4/23/22	1354	←	22.0	G26	5/8/22	1212	←	21.0
2	6431	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
3	4654	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
4	4669	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
5	34000623	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
6	34000231	1.08	1.08	0	↓	G26	5/8/22	1212	←	21.0	G26	↓	↓	↓	↓
7	34002474	1.08	1.08	0	↓	G26	4/23/22	1354	←	22.0	G26	↓	↓	↓	↓
8	6323	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
9	4965	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
10	6493	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
11	6566	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
12	6467	↓	1.22	0.14	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revi
34000231	4/26/22	52533	KPT			XXXXXXX			4/26/22	JRB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	4/29/2022	1148	16	16	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5923	.09	.09	0	29.5	G26	4/30/22	1212	—	23.0	G26	5/15/22	1217	—	22.0
2	34001074		.09	0		G26					G26				
3	6450		.09	0		G26					G26				
4	6377		.09	0		G26					G26				
5	34000993		.09	0		G26					G26				
6	3576		.17	.08		G26					G26				
7	6283		.09	0		G26					G26				
8	4844		.09	0		G26					G26				
9	4851	.08	.08	0		G26	5/15/22	1217	—	22.0	G26				
10	6419	.09	.09	0		G26	4/30/22	1212	—	23.0	G26				
11	4260		.09	0		G26					G26				
12	34000947		.09	0		G26					G26				

NJ

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
4851	5/3/22	50641	KPI			XXXXXXX			5/3/22	

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-63186-A-9
4851
Location: Air-Storage
Bottle: Summa Canister 1L
Sampled: 4/29/2022 12:00 AM 200-1611518

Loc: 200
63186
#9 A
Air-Storag

6/23/2022

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	5/4/2022	1300	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	4670	.09	.19	.10	29.5	G26	5/5/22	1251	←	21.0	G26	5/15/22	1340	←	22.0
2	4860	.08	.08	0		G26	5/15/22	1340	←	22.0	G26				
3	5839	.09	.09	0		G26	5/5/22	1251	←	21.0	G26				
4	4655		.09	0		G26					G26				
5	4863		.09	0		G26					G26				
6	6284		.09	0		G26					G26				
7	5934		.09	0		G26					G26				
8	3727		.09	0		G26					G26				
9	3691		.09	0		G26					G26				
10	6461		.09	0		G26					G26				
11	34001078		.14	.05		G26					G26				
12	5935		.15	.06		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
4860	5/9/22	50726	ABI			XXXXXXX			5/9/22	DAB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	5/12/2022	1536	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading Temp:
1	3577	1.08	1.28	1.20	29.6	G26	5/13/22	1638	—	22.0	G26	5/22/22	1507	—	22.0
2	8439		1.22	1.14		G26					G26				
3	6469		1.08	0		G26					G26				
4	34002483		1.08	0		G26					G26				
5	8509		1.08	0		G26					G26				
6	8517		1.08	0		G26					G26				
7	8944		1.08	0		G26					G26				
8	6424		1.08	0		G26					G26				
9	6432	1.08	1.08	0		G26	5/22/22	1507	—	22.0	G26				
10	34002005		1.08	0		G26	5/13/22	1638	—	22.0	G26				
11	8942		1.08	0		G26					G26				
12	34000330		1.12	1.04		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
6432	5/17/22	50837	AB			XXXXXXX			5/17/22	JPB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

NJ

6/23/2022

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

200-63356-A-9
6432
Location: Air-Storage
Bottle: Summa Canister 1L
Sampled: 5/12/2022 12:00 AM 200-1616357

Loc: 200
63356
#9 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63112-1

SDG No.:

Client Sample ID: 34000231 Lab Sample ID: 200-63112-6

Matrix: Air Lab File ID: 50533-16.D

Analysis Method: TO-15 Date Collected: 04/22/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/25/2022 20:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179117 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U *1	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63112-1

SDG No.:

Client Sample ID: 34000231 Lab Sample ID: 200-63112-6

Matrix: Air Lab File ID: 50533-16.D

Analysis Method: TO-15 Date Collected: 04/22/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/25/2022 20:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179117 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-63112-1

SDG No.:

Client Sample ID: 34000231 | Lab Sample ID: 200-63112-6

Matrix: Air | Lab File ID: 50533-16.D

Analysis Method: TO-15 | Date Collected: 04/22/2022 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/25/2022 20:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 179117 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220425-50533.b\50533-16.D
Lims ID: 200-63112-A-6
Client ID: 34000231
Sample Type: Client
Inject. Date: 25-Apr-2022 20:57:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0050533-016
Misc. Info.: 63112-6
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220425-50533.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 26-Apr-2022 02:53:12 Calib Date: 20-Apr-2022 04:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220419-50460.b\50460-17.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: puangmaleek Date: 26-Apr-2022 09:28:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.815				ND	U
2 Dichlorodifluoromethane	85		2.874				ND	7
3 Chlorodifluoromethane	51		2.911				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.104				ND	7
5 Chloromethane	50		3.210				ND	7
6 Butane	43		3.402				ND	
7 Vinyl chloride	62		3.424				ND	
8 Butadiene	54		3.498				ND	
9 Bromomethane	94		4.080				ND	
10 Chloroethane	64		4.299				ND	
13 Vinyl bromide	106		4.662				ND	
14 Trichlorofluoromethane	101		4.779				ND	
16 Ethanol	45		5.345				ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.815				ND	
20 1,1-Dichloroethene	96		5.825				ND	
21 Acetone	43		6.039				ND	7
22 Carbon disulfide	76		6.183				ND	
23 Isopropyl alcohol	45		6.412				ND	
24 3-Chloro-1-propene	41		6.567				ND	
26 Methylene Chloride	49		6.845				ND	7
28 2-Methyl-2-propanol	59		7.192				ND	
29 trans-1,2-Dichloroethene	61		7.304				ND	
30 Methyl tert-butyl ether	73		7.330				ND	
32 Hexane	57		7.741				ND	
33 1,1-Dichloroethane	63		8.131				ND	
34 Vinyl acetate	43		8.238				ND	
35 cis-1,2-Dichloroethene	96		9.209				ND	
36 2-Butanone (MEK)	72		9.268				ND	
37 Ethyl acetate	88		9.364				ND	
* 38 Chlorobromomethane	128	9.641	9.647	-0.006	88	290171	20.0	
39 Tetrahydrofuran	42		9.727				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Chloroform	83		9.801				ND	
	41 1,1,1-Trichloroethane	97		10.074				ND	
	42 Cyclohexane	84		10.090				ND	
S	43 1,2-Dichloroethene, Total	61		10.200				ND	7
	44 Carbon tetrachloride	117		10.346				ND	
	45 Benzene	78		10.762				ND	7
	46 Isooctane	57		10.826				ND	
	47 1,2-Dichloroethane	62		10.911				ND	
	48 n-Heptane	43		11.232				ND	
*	49 1,4-Difluorobenzene	114	11.605	11.611	-0.006	96	1644417	20.0	
	50 Trichloroethene	95		12.080				ND	7
	53 1,2-Dichloropropane	63		12.577				ND	
	55 Methyl methacrylate	69		12.827				ND	
	56 Dibromomethane	174		12.827				ND	7
	57 1,4-Dioxane	88		12.886				ND	
	58 Dichlorobromomethane	83		13.153				ND	
	59 cis-1,3-Dichloropropene	75		14.114				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		14.450				ND	
	62 Toluene	92		14.727				ND	7
	66 trans-1,3-Dichloropropene	75		15.325				ND	
	67 1,1,2-Trichloroethane	83		15.683				ND	
	68 Tetrachloroethene	166		15.859				ND	
	69 2-Hexanone	43		16.206				ND	
	70 Chlorodibromomethane	129		16.456				ND	
	71 Ethylene Dibromide	107		16.702				ND	
*	72 Chlorobenzene-d5	117	17.641	17.641	0.000	91	1402480	20.0	
	73 Chlorobenzene	112		17.700				ND	
	74 Ethylbenzene	91		17.881				ND	U
	76 m-Xylene & p-Xylene	106		18.138				ND	
	77 o-Xylene	106		18.965				ND	
	78 Styrene	104		19.013				ND	
	80 Bromoform	173		19.424				ND	
	81 Isopropylbenzene	105		19.717				ND	
S	82 Xylenes, Total	106		20.100				ND	7
	83 1,1,2,2-Tetrachloroethane	83		20.411				ND	
	85 N-Propylbenzene	91		20.529				ND	7
	86 2-Chlorotoluene	91		20.721				ND	7
	87 4-Ethyltoluene	105		20.737				ND	
	89 1,3,5-Trimethylbenzene	105		20.859				ND	
	91 tert-Butylbenzene	119		21.382				ND	7
	92 1,2,4-Trimethylbenzene	105		21.484				ND	
	93 sec-Butylbenzene	105		21.735				ND	
	94 4-Isopropyltoluene	119		21.953				ND	7
	95 1,3-Dichlorobenzene	146		21.953				ND	
	96 1,4-Dichlorobenzene	146		22.098				ND	
	97 Benzyl chloride	91		22.284				ND	7
	98 n-Butylbenzene	91		22.541				ND	7
	100 1,2-Dichlorobenzene	146		22.621				ND	
	102 1,2,4-Trichlorobenzene	180		24.937				ND	
	103 Hexachlorobutadiene	225		25.145				ND	
	104 Naphthalene	128		25.337				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

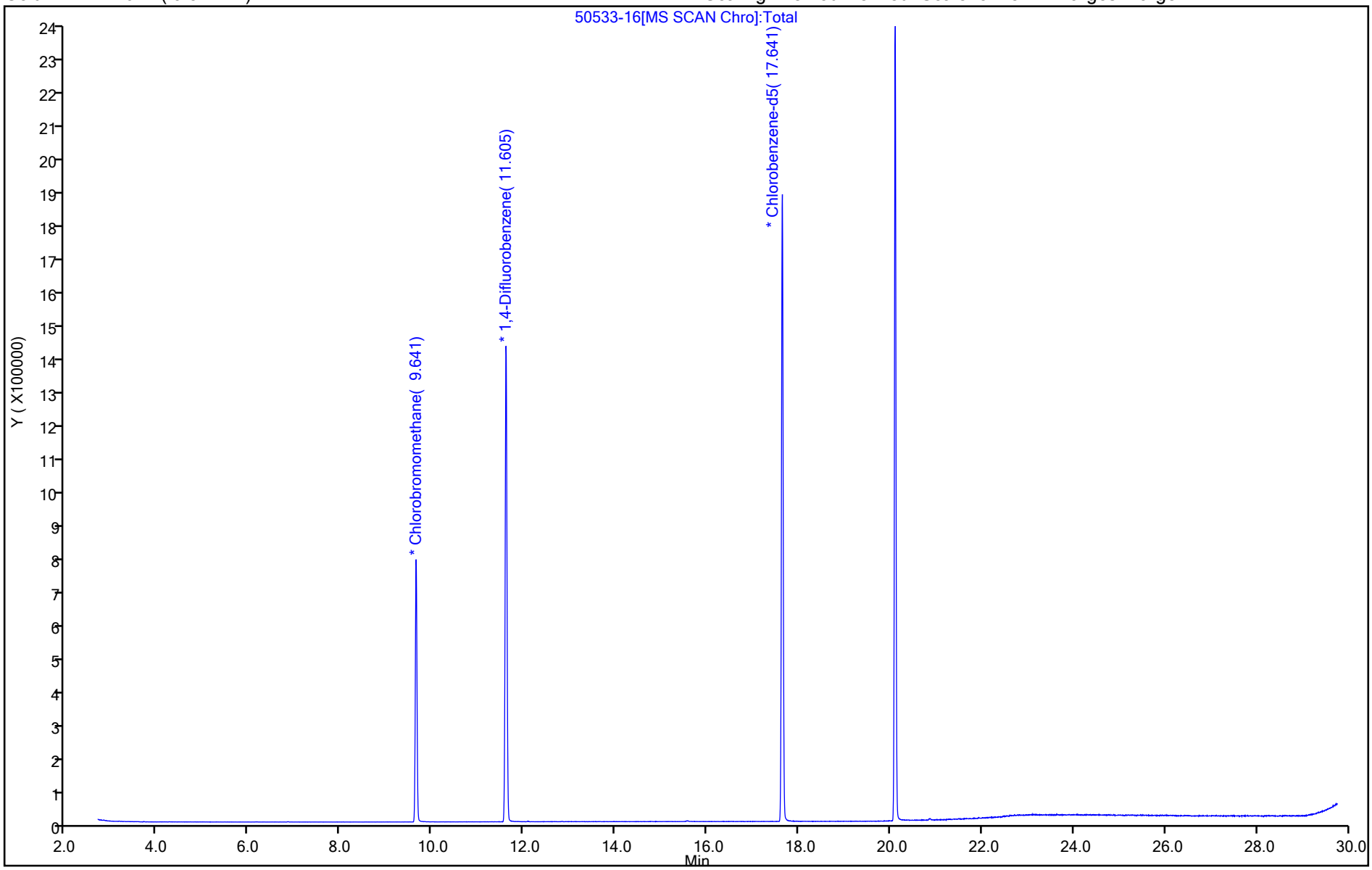
ATTO15CISs_00011 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 26-Apr-2022 08:15:36 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220425-50533.b\50533-16.D				
Injection Date:	25-Apr-2022 20:57:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-63112-A-6	Lab Sample ID:	200-63112-6	Worklist Smp#:	16
Client ID:	34000231				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



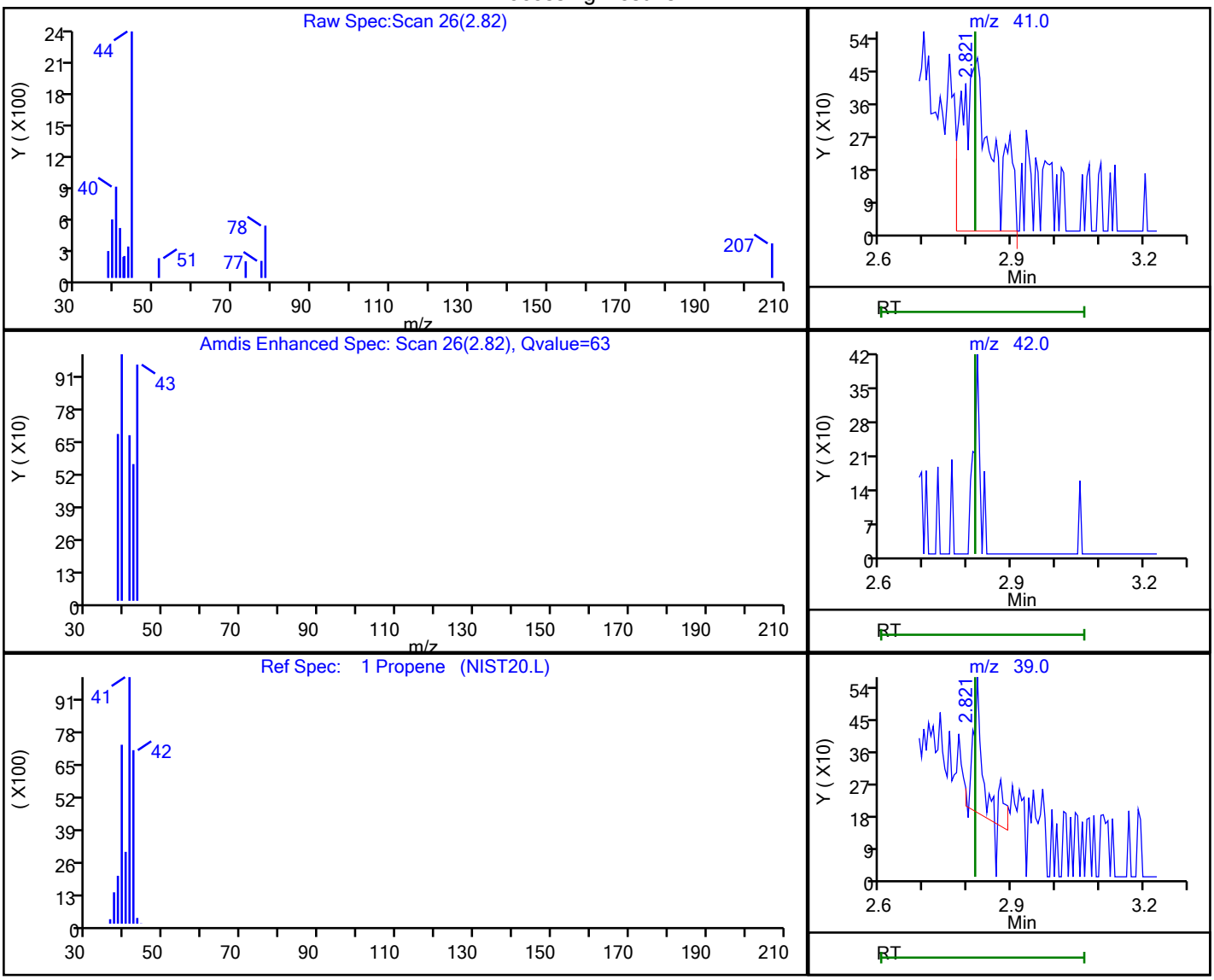
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220425-50533.b\50533-16.D				
Injection Date:	25-Apr-2022 20:57:30	Instrument ID:	CHC.i		
Lims ID:	200-63112-A-6	Lab Sample ID:	200-63112-6		
Client ID:	34000231				
Operator ID:	vtp	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

1 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
2.82	41.00	2325	0.134599
2.82	42.00	0	
2.82	39.00	590	

Reviewer: puangmaleek, 26-Apr-2022 09:28:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

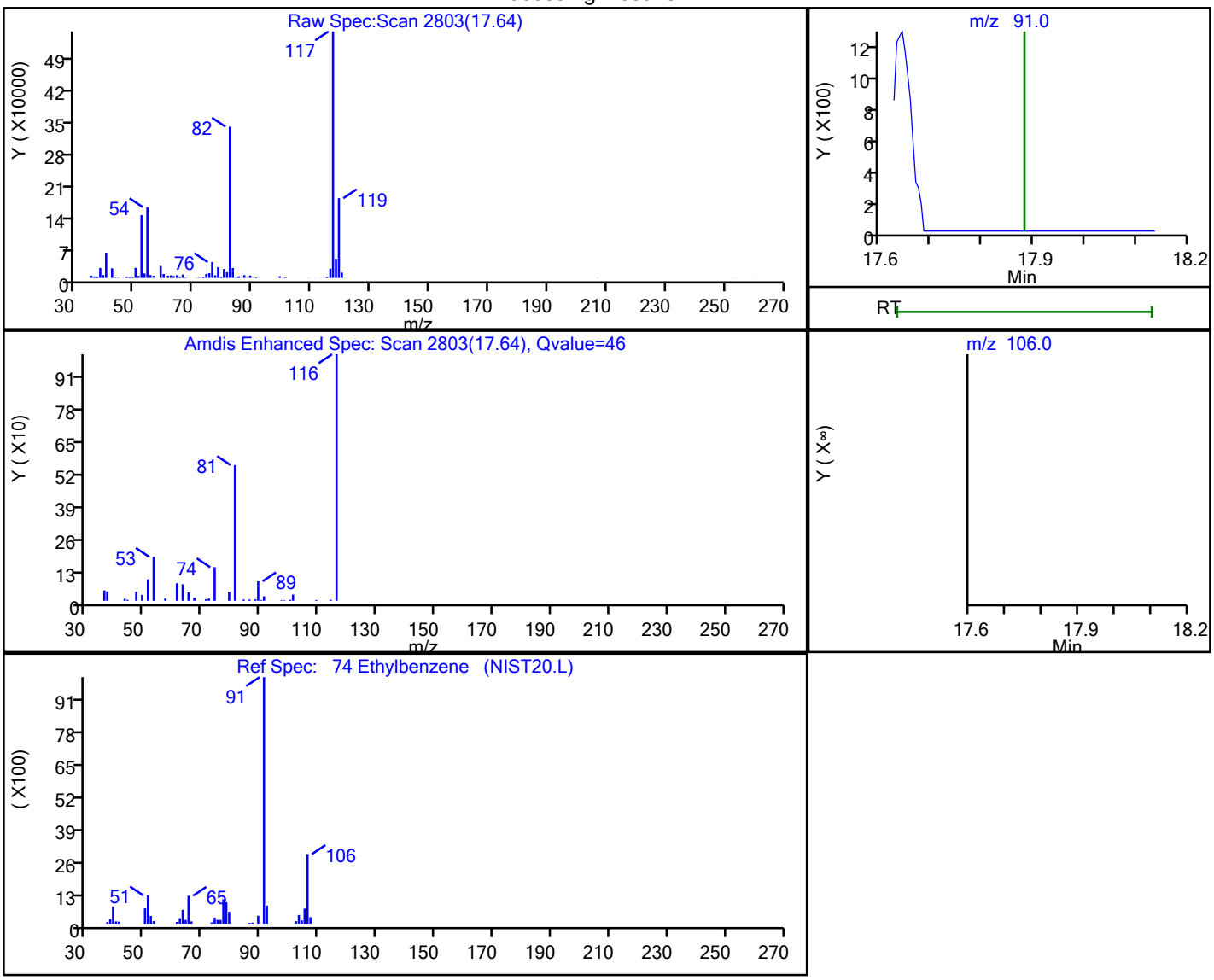
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220425-50533.b\50533-16.D				
Injection Date:	25-Apr-2022 20:57:30	Instrument ID:	CHC.i		
Lims ID:	200-63112-A-6	Lab Sample ID:	200-63112-6		
Client ID:	34000231				
Operator ID:	vtp	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

74 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
17.64	91.00	3286	0.020559
17.88	106.00	0	

Reviewer: puangmaleek, 26-Apr-2022 09:28:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63186-1

SDG No.:

Client Sample ID: 4851 Lab Sample ID: 200-63186-9

Matrix: Air Lab File ID: 50641-006.d

Analysis Method: TO-15 Date Collected: 04/29/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/02/2022 11:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179371 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.10
100-42-5	Styrene	0.20	U	0.20	0.032
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.020
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.089
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.095
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.046
106-99-0	1,3-Butadiene	0.20	U	0.20	0.038
107-05-1	Allyl chloride	0.50	U	0.50	0.11
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.15
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.19
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.044
108-88-3	Toluene	0.20	U	0.20	0.093
108-90-7	Chlorobenzene	0.20	U	0.20	0.043
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.2
110-54-3	Hexane	0.50	U	0.50	0.23
110-82-7	Cyclohexane	0.20	U	0.20	0.035
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.19
123-91-1	1,4-Dioxane	0.20	U	0.20	0.16
124-48-1	Dibromochloromethane	0.20	U	0.20	0.031
127-18-4	Tetrachloroethene	0.20	U	0.20	0.027
142-82-5	n-Heptane	0.20	U	0.20	0.059
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.033
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.088
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.080
179601-23-1	m,p-Xylene	0.50	U	0.50	0.17
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.035
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.089
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.032
593-60-2	Vinyl bromide	0.20	U	0.20	0.085
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.051
64-17-5	Ethanol	5.0	U	5.0	0.64
67-63-0	Isopropanol	5.0	U	5.0	0.98
67-64-1	Acetone	5.0	U	5.0	2.0
67-66-3	Chloroform	0.20	U	0.20	0.046

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63186-1

SDG No.:

Client Sample ID: 4851 Lab Sample ID: 200-63186-9

Matrix: Air Lab File ID: 50641-006.d

Analysis Method: TO-15 Date Collected: 04/29/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/02/2022 11:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179371 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.074
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.039
74-83-9	Bromomethane	0.20	U	0.20	0.052
74-87-3	Chloromethane	0.50	U	0.50	0.12
75-00-3	Chloroethane	0.50	U	0.50	0.25
75-01-4	Vinyl chloride	0.20	U	0.20	0.028
75-09-2	Methylene Chloride	0.50	U	0.50	0.17
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.058
75-27-4	Bromodichloromethane	0.20	U	0.20	0.040
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.029
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.029
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.052
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.087
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.17
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.034
79-01-6	Trichloroethene	0.20	U	0.20	0.024
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.16
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.031
91-20-3	Naphthalene	0.50	U	0.50	0.17
95-47-6	Xylene, o-	0.20	U	0.20	0.094
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.048
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.070
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.047
591-78-6	2-Hexanone	0.50	U	0.50	0.20

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220502-50641.b\50641-006.d
Lims ID: 200-63186-A-9
Client ID: 4851
Sample Type: Client
Inject. Date: 02-May-2022 11:57:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0050641-006
Misc. Info.: 63186-9
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220502-50641.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 03-May-2022 07:25:45 Calib Date: 17-Feb-2022 08:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220216-49589.b\49589-018.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: puangmaleek Date: 03-May-2022 07:26:16

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.987				ND	
	2 Dichlorodifluoromethane	85		4.078				ND	
	3 Chlorodifluoromethane	51		4.126				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.436				ND	
	5 Chloromethane	50		4.543				ND	
	6 Vinyl chloride	62		4.848				ND	
	7 Butane	43		4.854				ND	
	8 Butadiene	54		4.966				ND	
	9 Bromomethane	94		5.677				ND	
	10 Chloroethane	64		5.956				ND	
	13 Vinyl bromide	106		6.373				ND	
	14 Trichlorofluoromethane	101		6.539				ND	
	16 Ethanol	45		6.929				ND	
	20 1,1-Dichloroethene	96		7.603				ND	
	21 112TCTFE	101		7.646				ND	
	22 Acetone	43		7.700				ND	
	23 Isopropyl alcohol	45		8.005				ND	
	24 Carbon disulfide	76	8.005	8.010	-0.005	95	1696	0.0395	
	26 3-Chloro-1-propene	41		8.304				ND	
	27 Methylene Chloride	49		8.534				ND	7
	28 2-Methyl-2-propanol	59		8.780				ND	
	30 trans-1,2-Dichloroethene	61		9.037				ND	
	31 Methyl tert-butyl ether	73		9.058				ND	
	32 Hexane	57		9.551				ND	
	33 1,1-Dichloroethane	63		9.797				ND	
	34 Vinyl acetate	43		9.818				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.770				ND	
	37 cis-1,2-Dichloroethene	96		10.786				ND	
	38 Ethyl acetate	88		10.861				ND	
*	39 Chlorobromomethane	128	11.193	11.198	-0.005	95	94856	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	
	41 Chloroform	83		11.380				ND	
	42 1,1,1-Trichloroethane	97		11.680				ND	
	43 Cyclohexane	84		11.819				ND	
	44 Carbon tetrachloride	117		11.958				ND	
	45 Benzene	78		12.306				ND	
	46 1,2-Dichloroethane	62		12.381				ND	
	47 Isooctane	57		12.530				ND	
	48 n-Heptane	43		12.841				ND	7
*	49 1,4-Difluorobenzene	114	13.044	13.049	-0.005	96	502855	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.034				ND	
	55 1,4-Dioxane	88		14.076				ND	
	57 Dibromomethane	174		14.087				ND	
	58 Dichlorobromomethane	83		14.403				ND	
	59 cis-1,3-Dichloropropene	75		15.205				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.478				ND	
	62 Toluene	92		15.847				ND	
	66 trans-1,3-Dichloropropene	75		16.264				ND	
	67 1,1,2-Trichloroethane	83		16.639				ND	
	68 Tetrachloroethene	166		16.837				ND	
	69 2-Hexanone	43		17.062				ND	
	70 Chlorodibromomethane	129		17.372				ND	
	71 Ethylene Dibromide	107		17.613				ND	
*	73 Chlorobenzene-d5	117	18.522	18.522	0.000	89	321938	10.0	
	74 Chlorobenzene	112		18.581				ND	
	75 Ethylbenzene	91		18.779				ND	
	76 m-Xylene & p-Xylene	106		19.036				ND	
	78 o-Xylene	106		19.811				ND	
	79 Styrene	104		19.854				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.207				ND	
	82 Isopropylbenzene	105		20.539				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.068				ND	
	85 N-Propylbenzene	91		21.277				ND	7
	86 2-Chlorotoluene	91		21.422				ND	7
	87 4-Ethyltoluene	105		21.480				ND	
	88 1,3,5-Trimethylbenzene	105		21.577				ND	
	91 tert-Butylbenzene	119		22.069				ND	
	92 1,2,4-Trimethylbenzene	105		22.154				ND	
	93 sec-Butylbenzene	105		22.401				ND	
	94 1,3-Dichlorobenzene	146		22.566				ND	
	95 4-Isopropyltoluene	119		22.620				ND	
	96 1,4-Dichlorobenzene	146		22.711				ND	
	97 Benzyl chloride	91		22.861				ND	
	98 n-Butylbenzene	91		23.171				ND	7
	99 1,2-Dichlorobenzene	146		23.198				ND	7
	102 1,2,4-Trichlorobenzene	180		25.578				ND	
	103 Hexachlorobutadiene	225		25.824				ND	
	104 Naphthalene	128		26.044				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

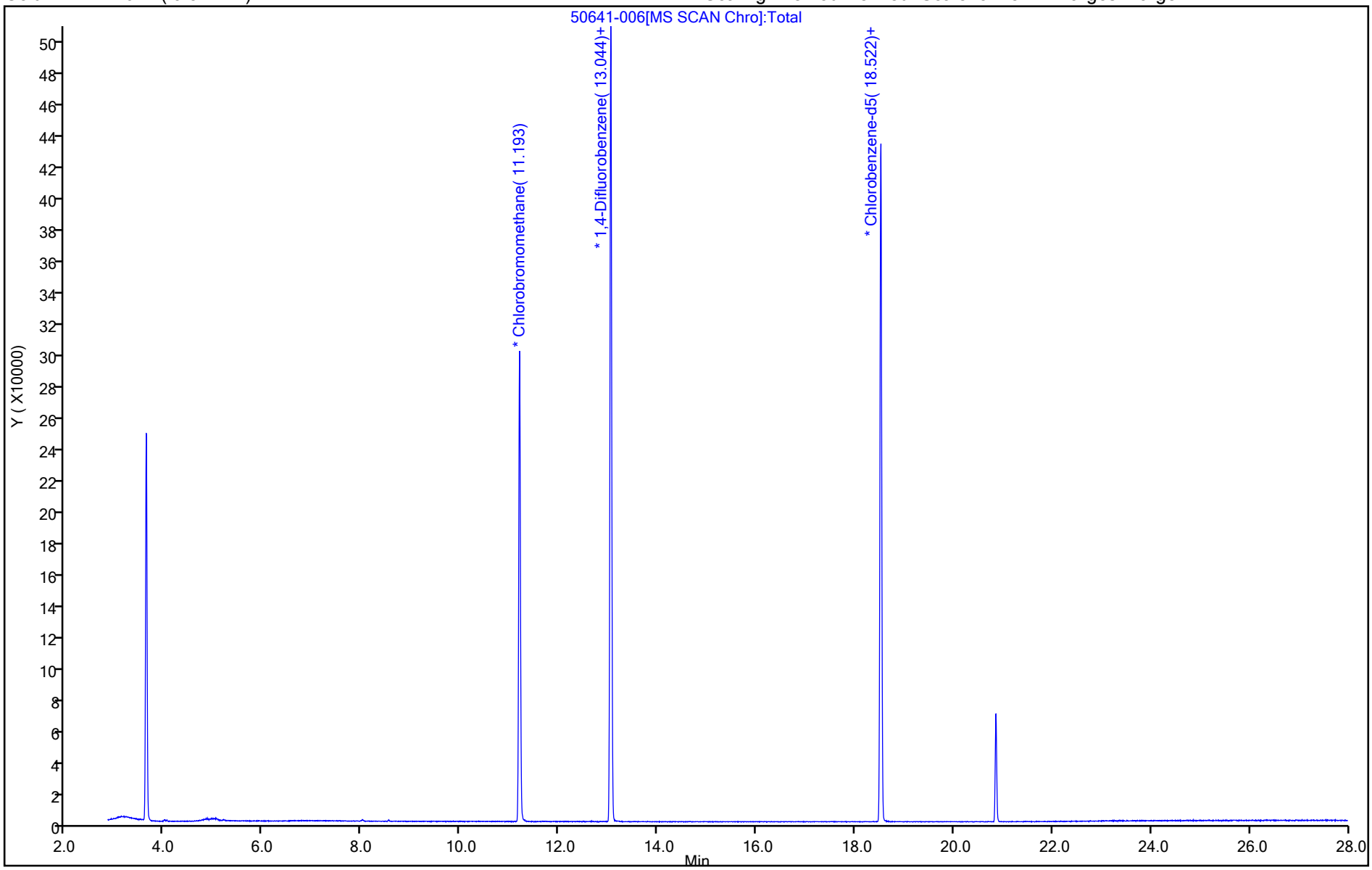
Report Date: 03-May-2022 07:26:16 Chrom Revision: 2.3 01-May-2022 14:49:10

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220502-50641.b\50641-006.d

Injection Date:	02-May-2022 11:57:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-63186-A-9	Lab Sample ID:	200-63186-9	Worklist Smp#:	6
Client ID:	4851				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63235-1

SDG No.:

Client Sample ID: 4860 Lab Sample ID: 200-63235-2

Matrix: Air Lab File ID: 50726-007.d

Analysis Method: TO-15 Date Collected: 05/04/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/06/2022 12:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179564 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.10
100-42-5	Styrene	0.20	U	0.20	0.032
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.020
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.089
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.095
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.046
106-99-0	1,3-Butadiene	0.20	U	0.20	0.038
107-05-1	Allyl chloride	0.50	U	0.50	0.11
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.15
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.19
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.044
108-88-3	Toluene	0.20	U	0.20	0.093
108-90-7	Chlorobenzene	0.20	U	0.20	0.043
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.2
110-54-3	Hexane	0.50	U	0.50	0.23
110-82-7	Cyclohexane	0.20	U	0.20	0.035
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.19
123-91-1	1,4-Dioxane	0.20	U	0.20	0.16
124-48-1	Dibromochloromethane	0.20	U	0.20	0.031
127-18-4	Tetrachloroethene	0.20	U	0.20	0.027
142-82-5	n-Heptane	0.20	U	0.20	0.059
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.033
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.088
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.080
179601-23-1	m,p-Xylene	0.50	U	0.50	0.17
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.035
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.089
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.032
593-60-2	Vinyl bromide	0.20	U	0.20	0.085
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.051
64-17-5	Ethanol	5.0	U	5.0	0.64
67-63-0	Isopropanol	5.0	U	5.0	0.98
67-64-1	Acetone	5.0	U	5.0	2.0
67-66-3	Chloroform	0.20	U	0.20	0.046

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63235-1

SDG No.:

Client Sample ID: 4860 Lab Sample ID: 200-63235-2

Matrix: Air Lab File ID: 50726-007.d

Analysis Method: TO-15 Date Collected: 05/04/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/06/2022 12:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179564 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.074
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.039
74-83-9	Bromomethane	0.20	U	0.20	0.052
74-87-3	Chloromethane	0.50	U	0.50	0.12
75-00-3	Chloroethane	0.50	U	0.50	0.25
75-01-4	Vinyl chloride	0.20	U	0.20	0.028
75-09-2	Methylene Chloride	0.50	U	0.50	0.17
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.058
75-27-4	Bromodichloromethane	0.20	U	0.20	0.040
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.029
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.029
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.052
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.087
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.17
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.034
79-01-6	Trichloroethene	0.20	U	0.20	0.024
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.16
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.031
91-20-3	Naphthalene	0.50	U	0.50	0.17
95-47-6	Xylene, o-	0.20	U	0.20	0.094
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.048
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.070
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.047
591-78-6	2-Hexanone	0.50	U	0.50	0.20

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220506-50726.b\50726-007.d
Lims ID: 200-63235-A-2
Client ID: 4860
Sample Type: Client
Inject. Date: 06-May-2022 12:53:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0050726-007
Misc. Info.: 63235-2
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220506-50726.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 09-May-2022 09:57:50 Calib Date: 17-Feb-2022 08:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220216-49589.b\49589-018.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: bunmaa Date: 09-May-2022 09:57:50

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.982				ND	
	2 Dichlorodifluoromethane	85		4.073				ND	
	3 Chlorodifluoromethane	51		4.121				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.426				ND	
	5 Chloromethane	50		4.538				ND	
	6 Vinyl chloride	62		4.843				ND	
	7 Butane	43		4.848				ND	7
	8 Butadiene	54		4.961				ND	
	9 Bromomethane	94		5.672				ND	
	10 Chloroethane	64		5.945				ND	
	13 Vinyl bromide	106		6.368				ND	
	14 Trichlorofluoromethane	101		6.528				ND	
	16 Ethanol	45		6.929				ND	
	20 1,1-Dichloroethene	96		7.598				ND	
	21 112TCTFE	101		7.641				ND	
	22 Acetone	43		7.694				ND	
	23 Isopropyl alcohol	45		7.999				ND	
	24 Carbon disulfide	76	8.005	8.005	0.000	95	1416	0.0323	
	26 3-Chloro-1-propene	41		8.304				ND	
	27 Methylene Chloride	49	8.539	8.539	0.005	88	947	0.0505	7M
	28 2-Methyl-2-propanol	59		8.775				ND	
	30 trans-1,2-Dichloroethene	61		9.037				ND	
	31 Methyl tert-butyl ether	73		9.059				ND	
	32 Hexane	57		9.545				ND	
	33 1,1-Dichloroethane	63		9.797				ND	
	34 Vinyl acetate	43		9.813				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.770				ND	
	37 cis-1,2-Dichloroethene	96		10.787				ND	
	38 Ethyl acetate	88		10.861				ND	
*	39 Chlorobromomethane	128	11.193	11.198	-0.005	97	96759	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.252				ND	
	41 Chloroform	83		11.375				ND	
	42 1,1,1-Trichloroethane	97		11.680				ND	
	43 Cyclohexane	84		11.819				ND	
	44 Carbon tetrachloride	117		11.958				ND	
	45 Benzene	78		12.306				ND	
	46 1,2-Dichloroethane	62		12.381				ND	
	47 Isooctane	57		12.525				ND	
	48 n-Heptane	43		12.841				ND	7
*	49 1,4-Difluorobenzene	114	13.044	13.049	-0.005	96	514801	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.927				ND	
	54 Methyl methacrylate	69		14.034				ND	
	55 1,4-Dioxane	88		14.082				ND	
	57 Dibromomethane	174		14.087				ND	
	58 Dichlorobromomethane	83		14.403				ND	
	59 cis-1,3-Dichloropropene	75		15.205				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.478				ND	
	62 Toluene	92		15.842				ND	
	66 trans-1,3-Dichloropropene	75		16.259				ND	
	67 1,1,2-Trichloroethane	83		16.634				ND	
	68 Tetrachloroethene	166		16.832				ND	
	69 2-Hexanone	43		17.062				ND	
	70 Chlorodibromomethane	129		17.372				ND	
	71 Ethylene Dibromide	107		17.607				ND	
*	73 Chlorobenzene-d5	117	18.522	18.522	0.000	89	333632	10.0	
	74 Chlorobenzene	112		18.581				ND	
	75 Ethylbenzene	91		18.779				ND	7
	76 m-Xylene & p-Xylene	106		19.041				ND	
	78 o-Xylene	106		19.811				ND	
	79 Styrene	104		19.849				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.207				ND	
	82 Isopropylbenzene	105		20.539				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.069				ND	
	85 N-Propylbenzene	91		21.277				ND	
	86 2-Chlorotoluene	91		21.422				ND	
	87 4-Ethyltoluene	105		21.481				ND	
	88 1,3,5-Trimethylbenzene	105		21.577				ND	
	91 tert-Butylbenzene	119		22.069				ND	
	92 1,2,4-Trimethylbenzene	105		22.155				ND	
	93 sec-Butylbenzene	105		22.395				ND	
	94 1,3-Dichlorobenzene	146		22.567				ND	
	95 4-Isopropyltoluene	119		22.615				ND	
	96 1,4-Dichlorobenzene	146		22.711				ND	
	97 Benzyl chloride	91		22.861				ND	
	98 n-Butylbenzene	91		23.171				ND	
	99 1,2-Dichlorobenzene	146		23.198				ND	
	102 1,2,4-Trichlorobenzene	180		25.578				ND	
	103 Hexachlorobutadiene	225		25.825				ND	
	104 Naphthalene	128		26.039				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00009	Amount Added:	20.00	Units: mL	Run Reagent

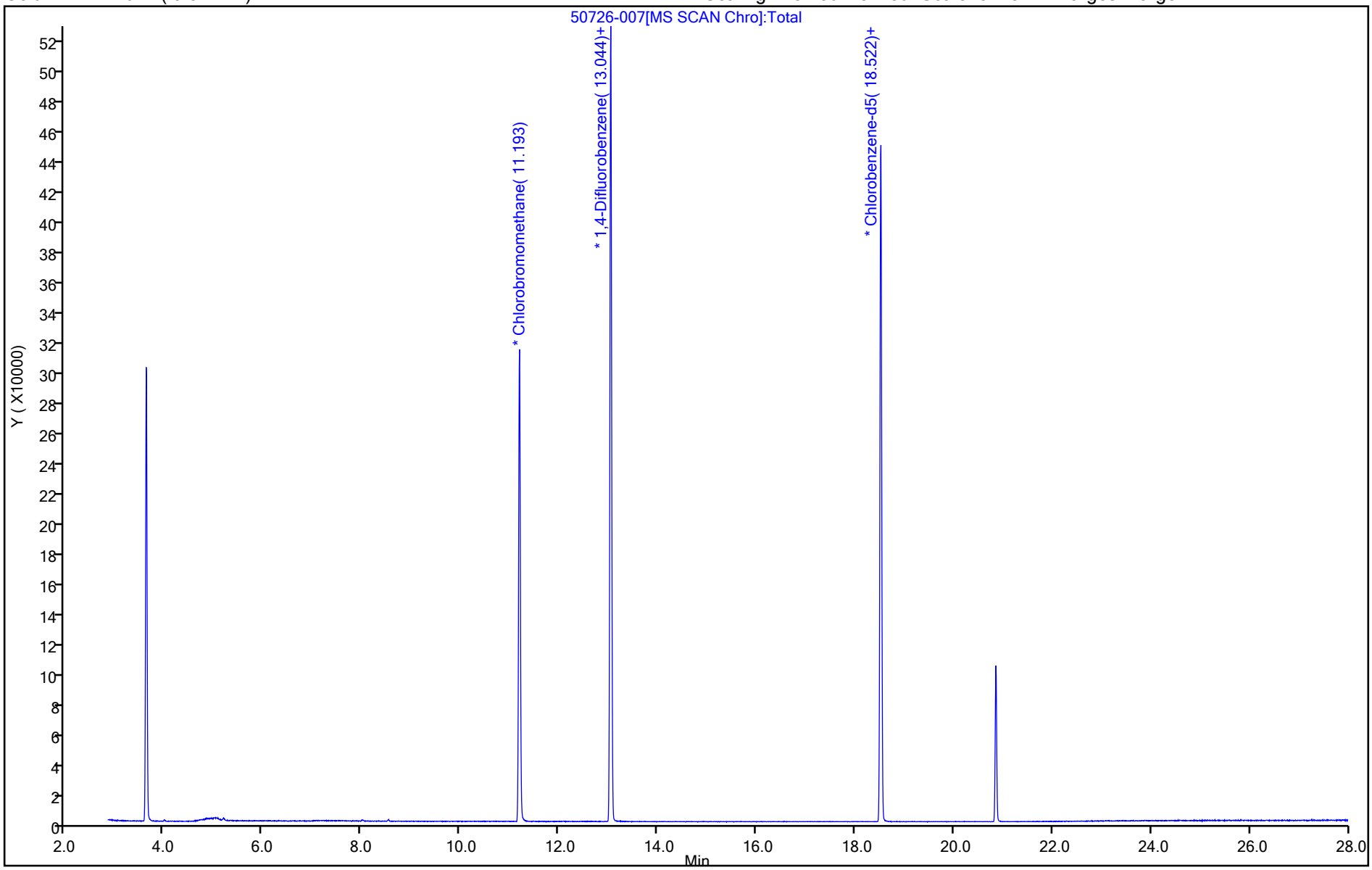
Report Date: 09-May-2022 09:57:50 Chrom Revision: 2.3 06-May-2022 08:35:38

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220506-50726.b\50726-007.d

Injection Date:	06-May-2022 12:53:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-63235-A-2	Lab Sample ID:	200-63235-2	Worklist Smp#:	7
Client ID:	4860				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Burlington

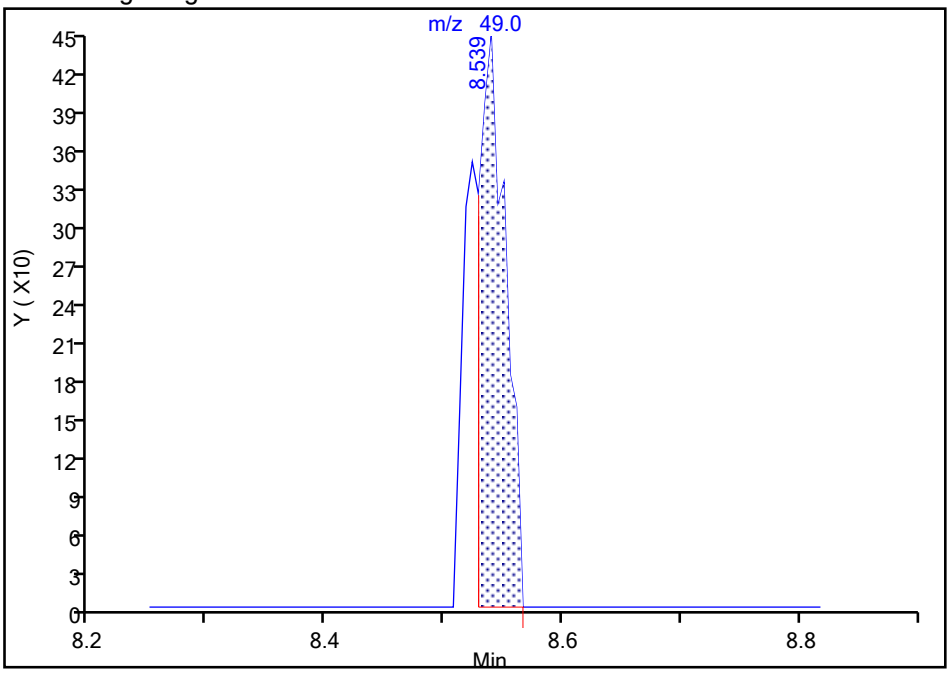
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20220506-50726.b\50726-007.d				
Injection Date:	06-May-2022 12:53:30	Instrument ID:	CHW.i		
Lims ID:	200-63235-A-2	Lab Sample ID:	200-63235-2		
Client ID:	4860				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

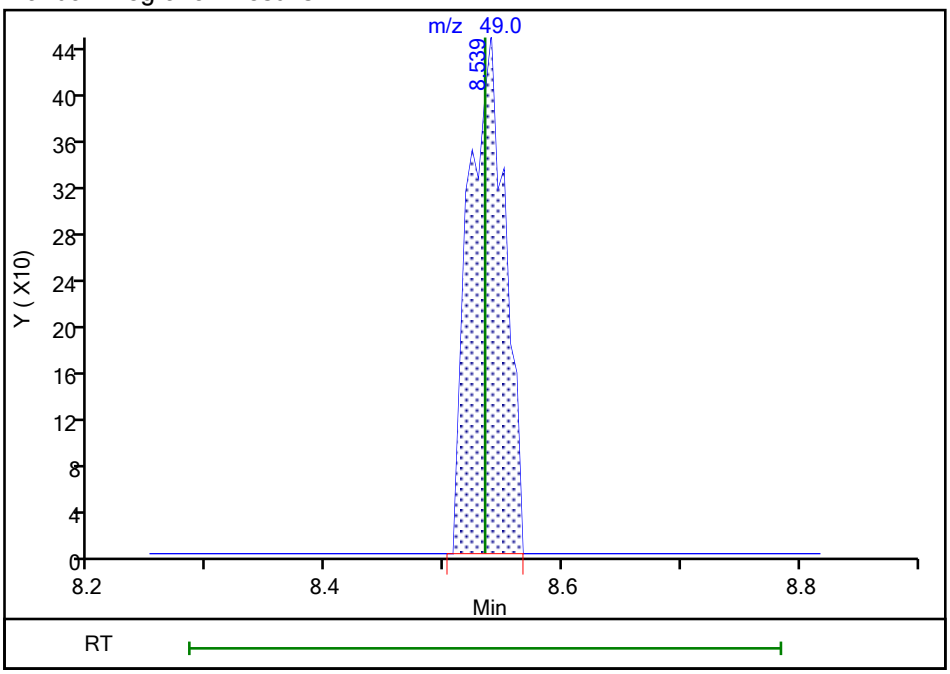
Processing Integration Results

RT: 8.54
Area: 686
Amount: 0.036585
Amount Units: ppb v/v



Manual Integration Results

RT: 8.54
Area: 947
Amount: 0.050504
Amount Units: ppb v/v



Reviewer: bunmaa, 09-May-2022 09:56:39
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63356-1

SDG No.:

Client Sample ID: 6432 Lab Sample ID: 200-63356-9

Matrix: Air Lab File ID: 50837-06.D

Analysis Method: TO-15 Date Collected: 05/12/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/16/2022 10:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179831 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.10
100-42-5	Styrene	0.20	U	0.20	0.032
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.020
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.089
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.095
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.046
106-99-0	1,3-Butadiene	0.20	U	0.20	0.038
107-05-1	Allyl chloride	0.50	U	0.50	0.11
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.15
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.19
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.044
108-88-3	Toluene	0.20	U	0.20	0.093
108-90-7	Chlorobenzene	0.20	U	0.20	0.043
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.2
110-54-3	Hexane	0.50	U	0.50	0.23
110-82-7	Cyclohexane	0.20	U	0.20	0.035
120-82-1	1,2,4-Trichlorobenzene	0.50	U *1	0.50	0.19
123-91-1	1,4-Dioxane	0.20	U	0.20	0.16
124-48-1	Dibromochloromethane	0.20	U	0.20	0.031
127-18-4	Tetrachloroethene	0.20	U	0.20	0.027
142-82-5	n-Heptane	0.20	U	0.20	0.059
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.033
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.088
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.080
179601-23-1	m,p-Xylene	0.50	U	0.50	0.17
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.035
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.089
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.032
593-60-2	Vinyl bromide	0.20	U	0.20	0.085
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.051
64-17-5	Ethanol	5.0	U	5.0	0.64
67-63-0	Isopropanol	5.0	U	5.0	0.98
67-64-1	Acetone	5.0	U	5.0	2.0
67-66-3	Chloroform	0.20	U	0.20	0.046

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63356-1

SDG No.:

Client Sample ID: 6432 Lab Sample ID: 200-63356-9

Matrix: Air Lab File ID: 50837-06.D

Analysis Method: TO-15 Date Collected: 05/12/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 05/16/2022 10:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179831 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.074
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.039
74-83-9	Bromomethane	0.20	U	0.20	0.052
74-87-3	Chloromethane	0.50	U	0.50	0.12
75-00-3	Chloroethane	0.50	U	0.50	0.25
75-01-4	Vinyl chloride	0.20	U	0.20	0.028
75-09-2	Methylene Chloride	0.50	U	0.50	0.17
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.058
75-27-4	Bromodichloromethane	0.20	U	0.20	0.040
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.029
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.029
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.052
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.055
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.055
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.087
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.17
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.034
79-01-6	Trichloroethene	0.20	U	0.20	0.024
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.16
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.031
91-20-3	Naphthalene	0.50	U *1	0.50	0.17
95-47-6	Xylene, o-	0.20	U	0.20	0.094
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.048
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.070
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.047
591-78-6	2-Hexanone	0.50	U	0.50	0.20

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20220516-50837.b\50837-06.D
Lims ID: 200-63356-A-9
Client ID: 6432
Sample Type: Client
Inject. Date: 16-May-2022 10:59:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0050837-006
Misc. Info.: 63356-9
Operator ID: vtp Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20220516-50837.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 17-May-2022 07:58:55 Calib Date: 13-May-2022 11:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20220512-50810.b\50810-23.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: bourdeaut Date: 17-May-2022 07:58:55

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.349				ND	7
T	2 Difluoroethane TIC	1		4.375				ND	
	3 Dichlorodifluoromethane	85		4.440				ND	
	4 Chlorodifluoromethane	51		4.477				ND	7
	5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.787				ND	
	6 Chloromethane	50		4.905				ND	7
	7 Vinyl chloride	62		5.215				ND	
	8 Butane	43		5.221				ND	U
	9 Butadiene	54		5.328				ND	
	10 Bromomethane	94		6.023				ND	
	12 Chloroethane	64		6.285				ND	
	13 2-Methylbutane	43		6.499				ND	
	14 Vinyl bromide	106		6.697				ND	
	15 Trichlorofluoromethane	101		6.858				ND	
	16 Pentane	43		7.066				ND	
	17 Ethanol	45	7.195	7.149	0.043	78	927	0.1600	
	18 Ethyl ether	59		7.446				ND	
	19 Acrolein	56		7.676				ND	
	20 1,1-Dichloroethene	96		7.901				ND	
	22 Acetone	43		7.933				ND	7
	21 112TCTFE	101		7.938				ND	
	23 Isopropyl alcohol	45		8.195				ND	
	24 Carbon disulfide	76		8.323				ND	
	25 Acetonitrile	41		8.420				ND	
	27 3-Chloro-1-propene	41		8.580				ND	
	28 Methylene Chloride	49		8.805				ND	
T	26 Methyl Acetate TIC	43		8.949				ND	
	29 2-Methyl-2-propanol	59		8.955				ND	
	30 Acrylonitrile	53		9.174				ND	
	31 Methyl tert-butyl ether	73		9.297				ND	
	32 trans-1,2-Dichloroethene	61		9.318				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.821				ND	
35 Vinyl acetate	43		10.057				ND	
36 1,1-Dichloroethane	63		10.062				ND	
37 2-Butanone (MEK)	72		10.993				ND	
38 cis-1,2-Dichloroethene	96		11.046				ND	
39 Ethyl acetate	88		11.084				ND	
* 40 Chlorobromomethane	128	11.453	11.458	-0.005	76	84163	10.0	
41 Tetrahydrofuran	42		11.490				ND	
42 Chloroform	83		11.630				ND	
43 1,1,1-Trichloroethane	97		11.945				ND	
44 Cyclohexane	84		12.100				ND	
45 Carbon tetrachloride	117		12.229				ND	
46 Benzene	78		12.566				ND	
47 1,2-Dichloroethane	62		12.635				ND	
48 Isooctane	57		12.785				ND	
49 n-Heptane	43		13.095				ND	
* 50 1,4-Difluorobenzene	114	13.293	13.293	0.000	94	431126	10.0	
51 n-Butanol	56		13.465				ND	U
52 Trichloroethene	95		13.732				ND	
A 53 GRO	1	14.144	(6.489-21.799)		0	597188	0	
T 54 Methyl cyclohexane TIC	55		14.181				ND	
55 1,2-Dichloropropane	63		14.181				ND	
56 Methyl methacrylate	69		14.251				ND	
57 1,4-Dioxane	88		14.294				ND	
58 Dibromomethane	174		14.337				ND	
59 Dichlorobromomethane	83		14.641				ND	
60 cis-1,3-Dichloropropene	75		15.439				ND	
A 61 TVOC as Toluene	92	15.508	(4.339-26.678)		0	675337	0	
62 4-Methyl-2-pentanone (MIBK)	43		15.674				ND	
63 Toluene	92		16.086				ND	
A 64 Toluene Range	1		(16.022-16.161)				ND	
66 n-Octane	43		16.343				ND	
A 65 C8 Range	1	16.348	(16.278-16.418)		0	714	NC	
67 trans-1,3-Dichloropropene	75		16.487				ND	
68 1,1,2-Trichloroethane	83		16.867				ND	
69 Tetrachloroethene	166		17.081				ND	
70 2-Hexanone	43		17.247				ND	
71 Chlorodibromomethane	129		17.611				ND	
72 Ethylene Dibromide	107		17.857				ND	
* 73 Chlorobenzene-d5	117	18.761	18.761	0.000	88	269532	10.0	
74 Chlorobenzene	112		18.820				ND	
75 Ethylbenzene	91		19.007				ND	
76 m-Xylene & p-Xylene	106		19.274				ND	
77 n-Nonane	57		19.338				ND	
S 78 Xylenes, Total	106		19.600				ND	7
79 o-Xylene	106		20.045				ND	
80 Styrene	104		20.077				ND	
81 Bromoform	173		20.430				ND	
82 Isopropylbenzene	105		20.740				ND	
83 1,1,2,2-Tetrachloroethane	83		21.248				ND	
84 1,2,3-Trichloropropane	75		21.350				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	91		21.457				ND	
86 2-Chlorotoluene	91		21.607				ND	
87 4-Ethyltoluene	105		21.655				ND	
88 1,3,5-Trimethylbenzene	105		21.751				ND	
89 n-Decane	57		21.789				ND	
90 Alpha Methyl Styrene	118		22.078				ND	
91 tert-Butylbenzene	119		22.233				ND	
92 1,2,4-Trimethylbenzene	105		22.318				ND	
93 sec-Butylbenzene	105		22.559				ND	
94 1,3-Dichlorobenzene	146		22.736				ND	7
95 4-Isopropyltoluene	119		22.773				ND	
96 1,4-Dichlorobenzene	146		22.875				ND	U
97 Benzyl chloride	91		23.014				ND	
98 n-Butylbenzene	91		23.329				ND	
99 1,2-Dichlorobenzene	146		23.361				ND	7
100 Undecane	57		23.479				ND	
101 Dodecane	57		25.057				ND	
102 1,2,4-Trichlorobenzene	180		25.790				ND	
103 Hexachlorobutadiene	225		26.031				ND	
104 Naphthalene	128		26.261				ND	
105 1,2,3-Trichlorobenzene	180		26.668				ND	
T 106 Chlorotrifluoroethene TIC	1		0.000				ND	
T 107 Methyl acetylene TIC	1		0.000				ND	
T 108 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000				ND	
T 110 1,2-Dibromo-3-Chloropropane TIC	1		0.000				ND	
T 111 1,1,1,2-Tetrachloroethane TIC	1		0.000				ND	
T 112 1,3-Dichloropropane TIC	1		0.000				ND	
113 Total Alkanes TIC	1		0.000				ND	
114 Methylcyclohexane	83		0.000				ND	
115 1,2,3-Trimethylbenzene TIC	1		0.000				ND	
T 109 Freon 115 TIC	1		4.760				ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

ATTO15XISs_00003 Amount Added: 20.00 Units: mL Run Reagent

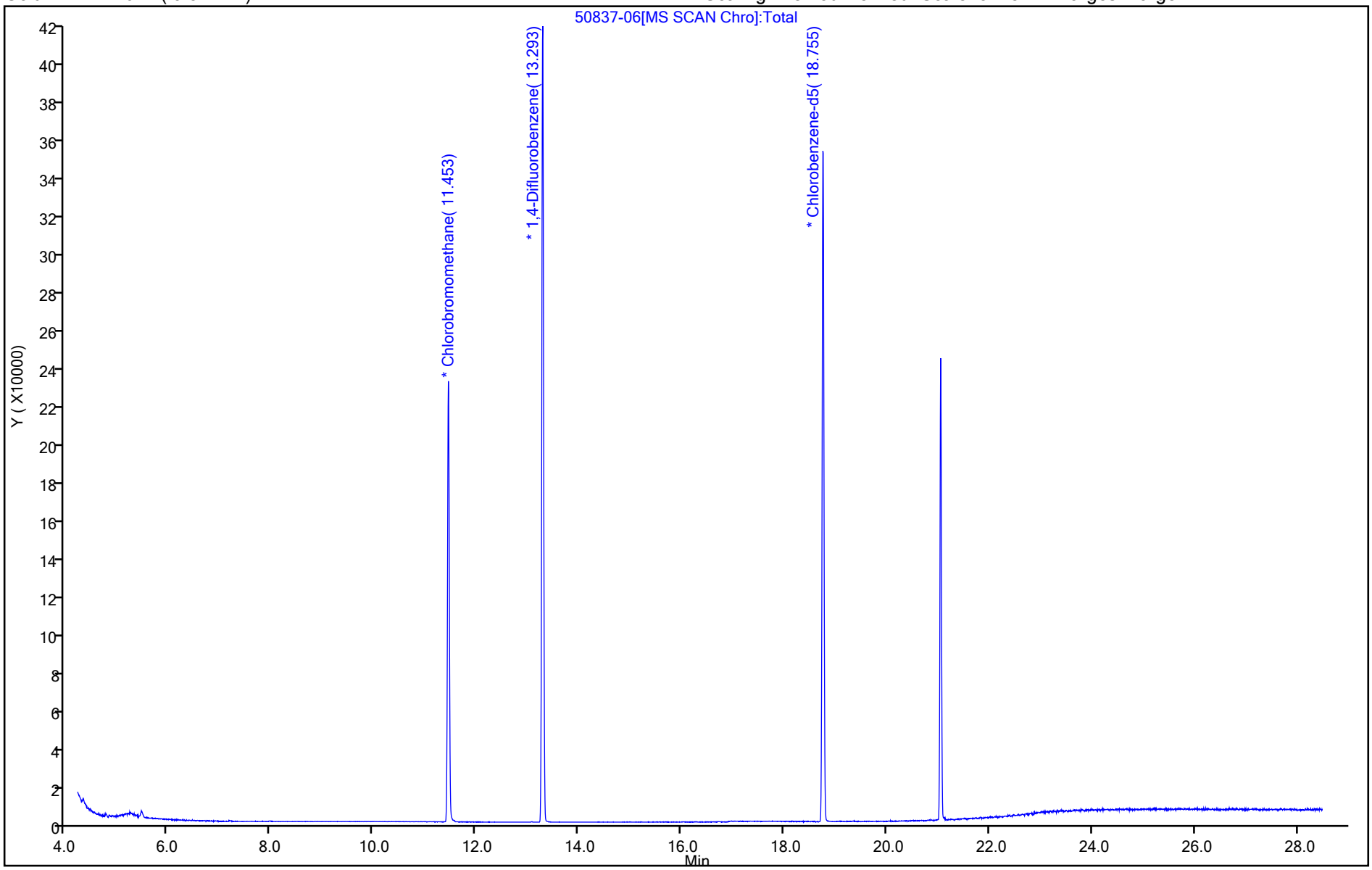
Report Date: 17-May-2022 07:58:55 Chrom Revision: 2.3 06-May-2022 08:35:38

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20220516-50837.b\50837-06.D

Injection Date:	16-May-2022 10:59:30	Instrument ID:	CHX.i	Operator ID:	vtp
Lims ID:	200-63356-A-9	Lab Sample ID:	200-63356-9	Worklist Smp#:	6
Client ID:	6432				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



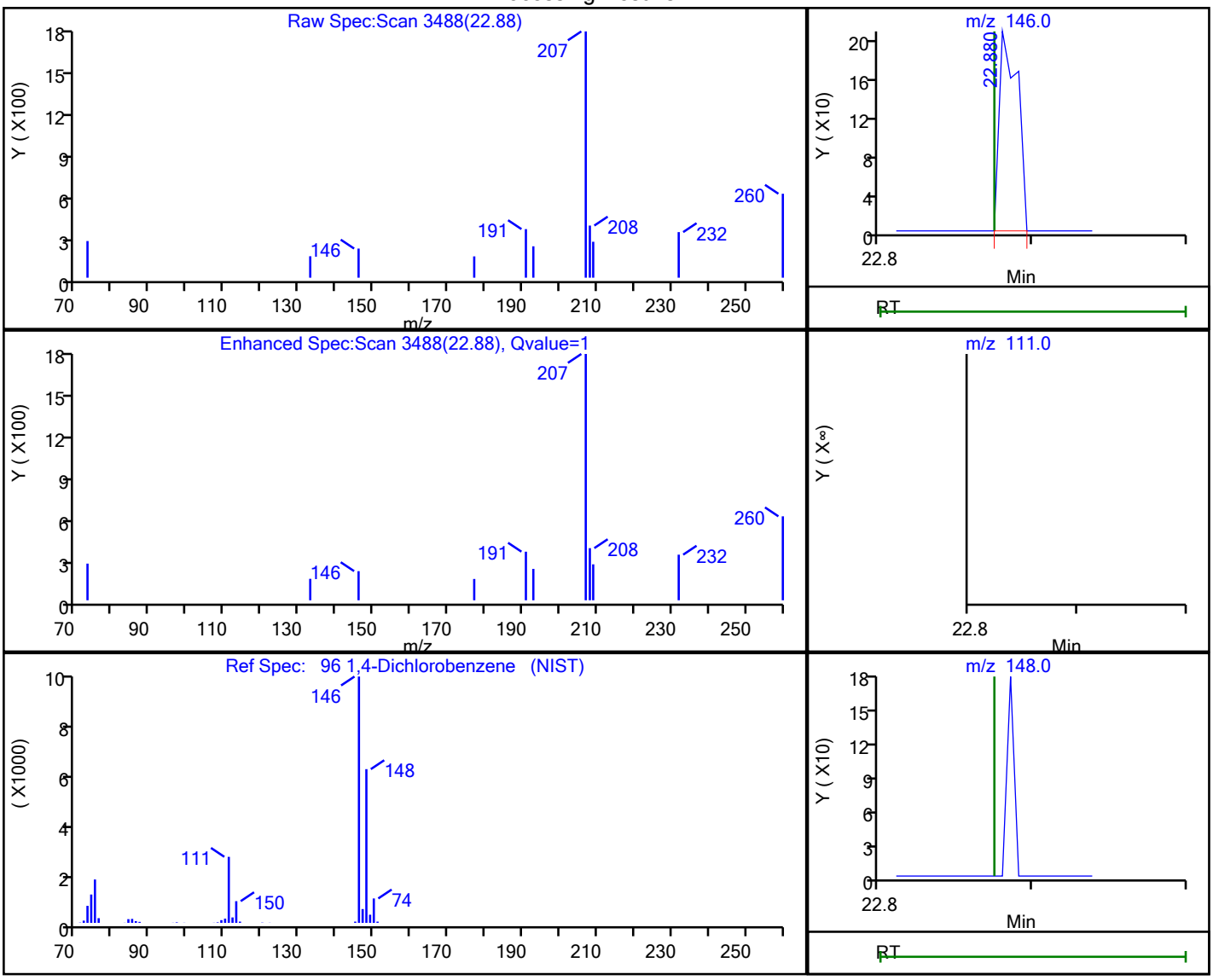
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20220516-50837.b\50837-06.D				
Injection Date:	16-May-2022 10:59:30	Instrument ID:	CHX.i		
Lims ID:	200-63356-A-9	Lab Sample ID:	200-63356-9		
Client ID:	6432				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.88	146.00	169	0.009526
22.87	111.00	0	
22.87	148.00	0	

Reviewer: bourdeaut, 16-May-2022 11:57:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job No.: 200-63844-1
SDG No.: 200-63844-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-63844-1	1	-9.7	0.68	0.68	42.3	3.88	3.88		5.74	5.74	G24	06/21/22 12:59	TPB
200-63844-1	1	0	1.00	1.00	41.6	3.83	3.83		3.83	21.97	G24	06/21/22 12:59	TPB
200-63844-2	1	-7.2	0.76	0.76	44.6	4.03	4.03		5.31	5.31	G24	06/21/22 12:59	TPB
200-63844-2	1	0	1.00	1.00	42.0	3.86	3.86		3.86	20.49	G24	06/21/22 12:59	TPB
200-63844-3	1	-9.9	0.67	0.67	42.7	3.90	3.90		5.84	5.84	G24	06/21/22 13:01	TPB
200-63844-3	1	0	1.00	1.00	42.3	3.88	3.88		3.88	22.63	G24	06/21/22 13:01	TPB
200-63844-4	1	-9.9	0.67	0.67	40.9	3.78	3.78		5.65	5.65	G24	06/21/22 13:01	TPB
200-63844-4	1	0	1.00	1.00	41.5	3.82	3.82		3.82	21.61	G24	06/21/22 13:01	TPB

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

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ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Davern
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

Generated 1/5/2023 11:27:02 AM

JOB DESCRIPTION

Crosman Vapor
SDG NUMBER 200-66284-1

JOB NUMBER

200-66284-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Generated
1/5/2023 11:27:02 AM

Authorized for release by
Elizabeth Nye, Project Manager I
Elizabeth.Nye@et.eurofinsus.com
(802)923-1029

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-66284-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Crosman Vapor

Report Number: 200-66284-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/28/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SDS-1-122722, SDS-2-122722, Combined Influent - 122722, Pre-VPGAC4-122722 and Post Blower Eff - 122722 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/30/2022.

Samples SDS-1-122722[100X], SDS-1-122722[20X], SDS-2-122722[12X], SDS-2-122722[61X], Combined Influent - 122722[10X], Combined Influent - 122722[40X], Pre-VPGAC4-122722[10X], Pre-VPGAC4-122722[50X] and Post Blower Eff - 122722[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Client Sample ID: SDS-1-122722 — Lab Sample ID: 200-66284-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.5	J	1.6	0.42	ppb v/v	20		TO-15	Total/NA
1,1-Dichloroethene	0.98		0.70	0.52	ppb v/v	20		TO-15	Total/NA
trans-1,2-Dichloroethene	0.90	J	4.0	0.46	ppb v/v	20		TO-15	Total/NA
1,1-Dichloroethane	3.0	J	4.0	0.50	ppb v/v	20		TO-15	Total/NA
cis-1,2-Dichloroethene	3.3		1.0	0.42	ppb v/v	20		TO-15	Total/NA
1,2-Dichloroethene, Total	4.2	J	8.0	2.0	ppb v/v	20		TO-15	Total/NA
Trichloroethene	2400	E	0.70	0.50	ppb v/v	20		TO-15	Total/NA
Tetrachloroethene	8.6		4.0	0.42	ppb v/v	20		TO-15	Total/NA
Vinyl chloride - DL	2.2	J D	7.8	2.1	ppb v/v	100		TO-15	Total/NA
1,1-Dichloroethane - DL	3.2	J D	20	2.5	ppb v/v	100		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	3.7	J D	5.0	2.1	ppb v/v	100		TO-15	Total/NA
Trichloroethene - DL	2800	D	3.5	2.5	ppb v/v	100		TO-15	Total/NA
Tetrachloroethene - DL	8.7	J D	20	2.1	ppb v/v	100		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	3.9	J	4.0	1.1	ug/m3	20		TO-15	Total/NA
1,1-Dichloroethene	3.9		2.8	2.1	ug/m3	20		TO-15	Total/NA
trans-1,2-Dichloroethene	3.6	J	16	1.8	ug/m3	20		TO-15	Total/NA
1,1-Dichloroethane	12	J	16	2.0	ug/m3	20		TO-15	Total/NA
cis-1,2-Dichloroethene	13		4.0	1.7	ug/m3	20		TO-15	Total/NA
1,2-Dichloroethene, Total	17	J	32	7.9	ug/m3	20		TO-15	Total/NA
Trichloroethene	13000	E	3.8	2.7	ug/m3	20		TO-15	Total/NA
Tetrachloroethene	58		27	2.8	ug/m3	20		TO-15	Total/NA
Vinyl chloride - DL	5.6	J D	20	5.4	ug/m3	100		TO-15	Total/NA
1,1-Dichloroethane - DL	13	J D	81	10	ug/m3	100		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	15	J D	20	8.3	ug/m3	100		TO-15	Total/NA
Trichloroethene - DL	15000	D	19	13	ug/m3	100		TO-15	Total/NA
Tetrachloroethene - DL	59	J D	140	14	ug/m3	100		TO-15	Total/NA

Client Sample ID: SDS-2-122722 — Lab Sample ID: 200-66284-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		0.60	0.25	ppb v/v	12		TO-15	Total/NA
1,2-Dichloroethene, Total	20		4.8	1.2	ppb v/v	12		TO-15	Total/NA
Trichloroethene	1000	E	0.42	0.30	ppb v/v	12		TO-15	Total/NA
Tetrachloroethene	1.2	J	2.4	0.25	ppb v/v	12		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	23	D	3.1	1.3	ppb v/v	61		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	23	J D	24	6.1	ppb v/v	61		TO-15	Total/NA
Trichloroethene - DL	1100	D	2.1	1.5	ppb v/v	61		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	81		2.4	1.0	ug/m3	12		TO-15	Total/NA
1,2-Dichloroethene, Total	79		19	4.8	ug/m3	12		TO-15	Total/NA
Trichloroethene	5400	E	2.3	1.6	ug/m3	12		TO-15	Total/NA
Tetrachloroethene	8.0	J	16	1.7	ug/m3	12		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	90	D	12	5.1	ug/m3	61		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	91	J D	97	24	ug/m3	61		TO-15	Total/NA
Trichloroethene - DL	6100	D	11	8.2	ug/m3	61		TO-15	Total/NA

Client Sample ID: Combined Influent - 122722 — Lab Sample ID: 200-66284-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		0.50	0.21	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Combined Influent - 122722 (Continued) — Lab Sample ID: 200-66284-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	14		4.0	1.0	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1300	E	0.35	0.25	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	2.9		2.0	0.21	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	16	D	2.0	0.84	ppb v/v	40		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	16	D	16	4.0	ppb v/v	40		TO-15	Total/NA
Trichloroethene - DL	1500	D	1.4	1.0	ppb v/v	40		TO-15	Total/NA
Tetrachloroethene - DL	3.2	J D	8.0	0.84	ppb v/v	40		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		2.0	0.83	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	56		16	4.0	ug/m3	10		TO-15	Total/NA
Trichloroethene	6900	E	1.9	1.3	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	20		14	1.4	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	62	D	7.9	3.3	ug/m3	40		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	63	D	63	16	ug/m3	40		TO-15	Total/NA
Trichloroethene - DL	7800	D	7.5	5.4	ug/m3	40		TO-15	Total/NA
Tetrachloroethene - DL	22	J D	54	5.7	ug/m3	40		TO-15	Total/NA

Client Sample ID: Pre-VPGAC4-122722 — Lab Sample ID: 200-66284-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		0.50	0.21	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	17		4.0	1.0	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1100	E	0.35	0.25	ppb v/v	10		TO-15	Total/NA
Toluene	1.8	J	2.0	0.42	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	18	D	2.5	1.1	ppb v/v	50		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	18	J D	20	5.0	ppb v/v	50		TO-15	Total/NA
Trichloroethene - DL	1100	D	1.8	1.3	ppb v/v	50		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	68		2.0	0.83	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	67		16	4.0	ug/m3	10		TO-15	Total/NA
Trichloroethene	5700	E	1.9	1.3	ug/m3	10		TO-15	Total/NA
Toluene	6.9	J	7.5	1.6	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	71	D	9.9	4.2	ug/m3	50		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	71	J D	79	20	ug/m3	50		TO-15	Total/NA
Trichloroethene - DL	6100	D	9.4	6.7	ug/m3	50		TO-15	Total/NA

Client Sample ID: Post Blower Eff - 122722 — Lab Sample ID: 200-66284-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		0.50	0.21	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	26		4.0	1.0	ppb v/v	10		TO-15	Total/NA
Trichloroethene	11		0.35	0.25	ppb v/v	10		TO-15	Total/NA
Toluene	1.3	J	2.0	0.42	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		2.0	0.83	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	100		16	4.0	ug/m3	10		TO-15	Total/NA
Trichloroethene	62		1.9	1.3	ug/m3	10		TO-15	Total/NA
Toluene	4.8	J	7.5	1.6	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Client Sample ID: SDS-1-122722
Date Collected: 12/27/22 11:15
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Lab Sample ID: 200-66284-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**1.5**	**J**	1.6	0.42	ppb v/v			12/30/22 14:32	20
1,1-Dichloroethene	**0.98**		0.70	0.52	ppb v/v			12/30/22 14:32	20
Acetone	100	U	100	32	ppb v/v			12/30/22 14:32	20
Methylene Chloride	10	U	10	3.6	ppb v/v			12/30/22 14:32	20
trans-1,2-Dichloroethene	**0.90**	**J**	4.0	0.46	ppb v/v			12/30/22 14:32	20
1,1-Dichloroethane	**3.0**	**J**	4.0	0.50	ppb v/v			12/30/22 14:32	20
cis-1,2-Dichloroethene	**3.3**		1.0	0.42	ppb v/v			12/30/22 14:32	20
1,2-Dichloroethene, Total	**4.2**	**J**	8.0	2.0	ppb v/v			12/30/22 14:32	20
1,1,1-Trichloroethane	4.0	U	4.0	0.88	ppb v/v			12/30/22 14:32	20
Carbon tetrachloride	0.70	U	0.70	0.44	ppb v/v			12/30/22 14:32	20
Benzene	4.0	U	4.0	0.88	ppb v/v			12/30/22 14:32	20
Trichloroethene	**2400**	**E**	0.70	0.50	ppb v/v			12/30/22 14:32	20
Toluene	4.0	U	4.0	0.84	ppb v/v			12/30/22 14:32	20
Tetrachloroethene	**8.6**		4.0	0.42	ppb v/v			12/30/22 14:32	20
Chlorobenzene	4.0	U	4.0	0.88	ppb v/v			12/30/22 14:32	20
m,p-Xylene	10	U	10	1.9	ppb v/v			12/30/22 14:32	20
Xylene, o-	4.0	U	4.0	1.0	ppb v/v			12/30/22 14:32	20
Bromoform	4.0	U	4.0	2.4	ppb v/v			12/30/22 14:32	20
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.86	ppb v/v			12/30/22 14:32	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**3.9**	**J**	4.0	1.1	ug/m3			12/30/22 14:32	20
1,1-Dichloroethene	**3.9**		2.8	2.1	ug/m3			12/30/22 14:32	20
Acetone	240	U	240	76	ug/m3			12/30/22 14:32	20
Methylene Chloride	35	U	35	13	ug/m3			12/30/22 14:32	20
trans-1,2-Dichloroethene	**3.6**	**J**	16	1.8	ug/m3			12/30/22 14:32	20
1,1-Dichloroethane	**12**	**J**	16	2.0	ug/m3			12/30/22 14:32	20
cis-1,2-Dichloroethene	**13**		4.0	1.7	ug/m3			12/30/22 14:32	20
1,2-Dichloroethene, Total	**17**	**J**	32	7.9	ug/m3			12/30/22 14:32	20
1,1,1-Trichloroethane	22	U	22	4.8	ug/m3			12/30/22 14:32	20
Carbon tetrachloride	4.4	U	4.4	2.8	ug/m3			12/30/22 14:32	20
Benzene	13	U	13	2.8	ug/m3			12/30/22 14:32	20
Trichloroethene	**13000**	**E**	3.8	2.7	ug/m3			12/30/22 14:32	20
Toluene	15	U	15	3.2	ug/m3			12/30/22 14:32	20
Tetrachloroethene	**58**		27	2.8	ug/m3			12/30/22 14:32	20
Chlorobenzene	18	U	18	4.1	ug/m3			12/30/22 14:32	20
m,p-Xylene	43	U	43	8.3	ug/m3			12/30/22 14:32	20
Xylene, o-	17	U	17	4.5	ug/m3			12/30/22 14:32	20
Bromoform	41	U	41	25	ug/m3			12/30/22 14:32	20
1,1,2,2-Tetrachloroethane	27	U	27	5.9	ug/m3			12/30/22 14:32	20

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**2.2**	**J D**	7.8	2.1	ppb v/v			12/30/22 15:25	100
1,1-Dichloroethene	3.5	U	3.5	2.6	ppb v/v			12/30/22 15:25	100
Acetone	500	U	500	160	ppb v/v			12/30/22 15:25	100
Methylene Chloride	50	U	50	18	ppb v/v			12/30/22 15:25	100
trans-1,2-Dichloroethene	20	U	20	2.3	ppb v/v			12/30/22 15:25	100
1,1-Dichloroethane	**3.2**	**J D**	20	2.5	ppb v/v			12/30/22 15:25	100

Client Sample ID: SDS-1-122722

Lab Sample ID: 200-66284-1

Date Collected: 12/27/22 11:15
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**3.7**	**J D**	5.0	2.1	ppb v/v			12/30/22 15:25	100
1,2-Dichloroethene, Total	40	U	40	10	ppb v/v			12/30/22 15:25	100
1,1,1-Trichloroethane	20	U	20	4.4	ppb v/v			12/30/22 15:25	100
Carbon tetrachloride	3.5	U	3.5	2.2	ppb v/v			12/30/22 15:25	100
Benzene	20	U	20	4.4	ppb v/v			12/30/22 15:25	100
Trichloroethene	**2800**	**D**	3.5	2.5	ppb v/v			12/30/22 15:25	100
Toluene	20	U	20	4.2	ppb v/v			12/30/22 15:25	100
Tetrachloroethene	**8.7**	**J D**	20	2.1	ppb v/v			12/30/22 15:25	100
Chlorobenzene	20	U	20	4.4	ppb v/v			12/30/22 15:25	100
m,p-Xylene	50	U	50	9.5	ppb v/v			12/30/22 15:25	100
Xylene, o-	20	U	20	5.2	ppb v/v			12/30/22 15:25	100
Bromoform	20	U	20	12	ppb v/v			12/30/22 15:25	100
1,1,2,2-Tetrachloroethane	20	U	20	4.3	ppb v/v			12/30/22 15:25	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**5.6**	**J D**	20	5.4	ug/m3			12/30/22 15:25	100
1,1-Dichloroethene	14	U	14	10	ug/m3			12/30/22 15:25	100
Acetone	1200	U	1200	380	ug/m3			12/30/22 15:25	100
Methylene Chloride	170	U	170	63	ug/m3			12/30/22 15:25	100
trans-1,2-Dichloroethene	79	U	79	9.1	ug/m3			12/30/22 15:25	100
1,1-Dichloroethane	**13**	**J D**	81	10	ug/m3			12/30/22 15:25	100
cis-1,2-Dichloroethene	**15**	**J D**	20	8.3	ug/m3			12/30/22 15:25	100
1,2-Dichloroethene, Total	160	U	160	40	ug/m3			12/30/22 15:25	100
1,1,1-Trichloroethane	110	U	110	24	ug/m3			12/30/22 15:25	100
Carbon tetrachloride	22	U	22	14	ug/m3			12/30/22 15:25	100
Benzene	64	U	64	14	ug/m3			12/30/22 15:25	100
Trichloroethene	**15000**	**D**	19	13	ug/m3			12/30/22 15:25	100
Toluene	75	U	75	16	ug/m3			12/30/22 15:25	100
Tetrachloroethene	**59**	**J D**	140	14	ug/m3			12/30/22 15:25	100
Chlorobenzene	92	U	92	20	ug/m3			12/30/22 15:25	100
m,p-Xylene	220	U	220	41	ug/m3			12/30/22 15:25	100
Xylene, o-	87	U	87	23	ug/m3			12/30/22 15:25	100
Bromoform	210	U	210	120	ug/m3			12/30/22 15:25	100
1,1,2,2-Tetrachloroethane	140	U	140	30	ug/m3			12/30/22 15:25	100

Client Sample ID: SDS-2-122722

Lab Sample ID: 200-66284-2

Date Collected: 12/27/22 11:20
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.94	U	0.94	0.25	ppb v/v			12/30/22 16:17	12
1,1-Dichloroethene	0.42	U	0.42	0.31	ppb v/v			12/30/22 16:17	12
Acetone	60	U	60	19	ppb v/v			12/30/22 16:17	12
Methylene Chloride	6.0	U	6.0	2.2	ppb v/v			12/30/22 16:17	12
trans-1,2-Dichloroethene	2.4	U	2.4	0.28	ppb v/v			12/30/22 16:17	12
1,1-Dichloroethane	2.4	U	2.4	0.30	ppb v/v			12/30/22 16:17	12
cis-1,2-Dichloroethene	**20**		0.60	0.25	ppb v/v			12/30/22 16:17	12
1,2-Dichloroethene, Total	**20**		4.8	1.2	ppb v/v			12/30/22 16:17	12

Client Sample ID: SDS-2-122722

Lab Sample ID: 200-66284-2

Date Collected: 12/27/22 11:20
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.4	U	2.4	0.53	ppb v/v			12/30/22 16:17	12
Carbon tetrachloride	0.42	U	0.42	0.26	ppb v/v			12/30/22 16:17	12
Benzene	2.4	U	2.4	0.53	ppb v/v			12/30/22 16:17	12
Trichloroethene	**1000**	**E**	0.42	0.30	ppb v/v			12/30/22 16:17	12
Toluene	2.4	U	2.4	0.50	ppb v/v			12/30/22 16:17	12
Tetrachloroethene	**1.2**	**J**	2.4	0.25	ppb v/v			12/30/22 16:17	12
Chlorobenzene	2.4	U	2.4	0.53	ppb v/v			12/30/22 16:17	12
m,p-Xylene	6.0	U	6.0	1.1	ppb v/v			12/30/22 16:17	12
Xylene, o-	2.4	U	2.4	0.62	ppb v/v			12/30/22 16:17	12
Bromoform	2.4	U	2.4	1.4	ppb v/v			12/30/22 16:17	12
1,1,2,2-Tetrachloroethane	2.4	U	2.4	0.52	ppb v/v			12/30/22 16:17	12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.4	U	2.4	0.64	ug/m3			12/30/22 16:17	12
1,1-Dichloroethene	1.7	U	1.7	1.2	ug/m3			12/30/22 16:17	12
Acetone	140	U	140	46	ug/m3			12/30/22 16:17	12
Methylene Chloride	21	U	21	7.5	ug/m3			12/30/22 16:17	12
trans-1,2-Dichloroethene	9.5	U	9.5	1.1	ug/m3			12/30/22 16:17	12
1,1-Dichloroethane	9.7	U	9.7	1.2	ug/m3			12/30/22 16:17	12
cis-1,2-Dichloroethene	**81**		2.4	1.0	ug/m3			12/30/22 16:17	12
1,2-Dichloroethene, Total	**79**		19	4.8	ug/m3			12/30/22 16:17	12
1,1,1-Trichloroethane	13	U	13	2.9	ug/m3			12/30/22 16:17	12
Carbon tetrachloride	2.6	U	2.6	1.7	ug/m3			12/30/22 16:17	12
Benzene	7.7	U	7.7	1.7	ug/m3			12/30/22 16:17	12
Trichloroethene	**5400**	**E**	2.3	1.6	ug/m3			12/30/22 16:17	12
Toluene	9.0	U	9.0	1.9	ug/m3			12/30/22 16:17	12
Tetrachloroethene	**8.0**	**J**	16	1.7	ug/m3			12/30/22 16:17	12
Chlorobenzene	11	U	11	2.4	ug/m3			12/30/22 16:17	12
m,p-Xylene	26	U	26	5.0	ug/m3			12/30/22 16:17	12
Xylene, o-	10	U	10	2.7	ug/m3			12/30/22 16:17	12
Bromoform	25	U	25	15	ug/m3			12/30/22 16:17	12
1,1,2,2-Tetrachloroethane	16	U	16	3.5	ug/m3			12/30/22 16:17	12

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.8	U	4.8	1.3	ppb v/v			12/30/22 17:10	61
1,1-Dichloroethene	2.1	U	2.1	1.6	ppb v/v			12/30/22 17:10	61
Acetone	310	U	310	98	ppb v/v			12/30/22 17:10	61
Methylene Chloride	31	U	31	11	ppb v/v			12/30/22 17:10	61
trans-1,2-Dichloroethene	12	U	12	1.4	ppb v/v			12/30/22 17:10	61
1,1-Dichloroethane	12	U	12	1.5	ppb v/v			12/30/22 17:10	61
cis-1,2-Dichloroethene	**23**	**D**	3.1	1.3	ppb v/v			12/30/22 17:10	61
1,2-Dichloroethene, Total	**23**	**J D**	24	6.1	ppb v/v			12/30/22 17:10	61
1,1,1-Trichloroethane	12	U	12	2.7	ppb v/v			12/30/22 17:10	61
Carbon tetrachloride	2.1	U	2.1	1.3	ppb v/v			12/30/22 17:10	61
Benzene	12	U	12	2.7	ppb v/v			12/30/22 17:10	61
Trichloroethene	**1100**	**D**	2.1	1.5	ppb v/v			12/30/22 17:10	61
Toluene	12	U	12	2.6	ppb v/v			12/30/22 17:10	61
Tetrachloroethene	12	U	12	1.3	ppb v/v			12/30/22 17:10	61

Client Sample ID: SDS-2-122722

Lab Sample ID: 200-66284-2

Date Collected: 12/27/22 11:20
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	12	U	12	2.7	ppb v/v			12/30/22 17:10	61
m,p-Xylene	31	U	31	5.8	ppb v/v			12/30/22 17:10	61
Xylene, o-	12	U	12	3.2	ppb v/v			12/30/22 17:10	61
Bromoform	12	U	12	7.3	ppb v/v			12/30/22 17:10	61
1,1,2,2-Tetrachloroethane	12	U	12	2.6	ppb v/v			12/30/22 17:10	61

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	12	U	12	3.3	ug/m3			12/30/22 17:10	61
1,1-Dichloroethene	8.5	U	8.5	6.3	ug/m3			12/30/22 17:10	61
Acetone	720	U	720	230	ug/m3			12/30/22 17:10	61
Methylene Chloride	110	U	110	38	ug/m3			12/30/22 17:10	61
trans-1,2-Dichloroethene	48	U	48	5.6	ug/m3			12/30/22 17:10	61
1,1-Dichloroethane	49	U	49	6.2	ug/m3			12/30/22 17:10	61
cis-1,2-Dichloroethene	**90**	**D**	12	5.1	ug/m3			12/30/22 17:10	61
1,2-Dichloroethene, Total	**91**	**J D**	97	24	ug/m3			12/30/22 17:10	61
1,1,1-Trichloroethane	67	U	67	15	ug/m3			12/30/22 17:10	61
Carbon tetrachloride	13	U	13	8.4	ug/m3			12/30/22 17:10	61
Benzene	39	U	39	8.6	ug/m3			12/30/22 17:10	61
Trichloroethene	**6100**	**D**	11	8.2	ug/m3			12/30/22 17:10	61
Toluene	46	U	46	9.7	ug/m3			12/30/22 17:10	61
Tetrachloroethene	83	U	83	8.7	ug/m3			12/30/22 17:10	61
Chlorobenzene	56	U	56	12	ug/m3			12/30/22 17:10	61
m,p-Xylene	130	U	130	25	ug/m3			12/30/22 17:10	61
Xylene, o-	53	U	53	14	ug/m3			12/30/22 17:10	61
Bromoform	130	U	130	76	ug/m3			12/30/22 17:10	61
1,1,2,2-Tetrachloroethane	84	U	84	18	ug/m3			12/30/22 17:10	61

Client Sample ID: Combined Influent - 122722

Lab Sample ID: 200-66284-3

Date Collected: 12/27/22 11:25
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.21	ppb v/v			12/30/22 18:02	10
1,1-Dichloroethene	0.35	U	0.35	0.26	ppb v/v			12/30/22 18:02	10
Acetone	50	U	50	16	ppb v/v			12/30/22 18:02	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			12/30/22 18:02	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			12/30/22 18:02	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			12/30/22 18:02	10
cis-1,2-Dichloroethene	**14**		0.50	0.21	ppb v/v			12/30/22 18:02	10
1,2-Dichloroethene, Total	**14**		4.0	1.0	ppb v/v			12/30/22 18:02	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			12/30/22 18:02	10
Carbon tetrachloride	0.35	U	0.35	0.22	ppb v/v			12/30/22 18:02	10
Benzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 18:02	10
Trichloroethene	**1300**	**E**	0.35	0.25	ppb v/v			12/30/22 18:02	10
Toluene	2.0	U	2.0	0.42	ppb v/v			12/30/22 18:02	10
Tetrachloroethene	**2.9**		2.0	0.21	ppb v/v			12/30/22 18:02	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 18:02	10
m,p-Xylene	5.0	U	5.0	0.95	ppb v/v			12/30/22 18:02	10

Client Sample ID: Combined Influent - 122722

Lab Sample ID: 200-66284-3

Date Collected: 12/27/22 11:25
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene, o-	2.0	U	2.0	0.52	ppb v/v			12/30/22 18:02	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			12/30/22 18:02	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			12/30/22 18:02	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.54	ug/m3			12/30/22 18:02	10
1,1-Dichloroethene	1.4	U	1.4	1.0	ug/m3			12/30/22 18:02	10
Acetone	120	U	120	38	ug/m3			12/30/22 18:02	10
Methylene Chloride	17	U	17	6.3	ug/m3			12/30/22 18:02	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			12/30/22 18:02	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			12/30/22 18:02	10
cis-1,2-Dichloroethene	**56**		2.0	0.83	ug/m3			12/30/22 18:02	10
1,2-Dichloroethene, Total	**56**		16	4.0	ug/m3			12/30/22 18:02	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			12/30/22 18:02	10
Carbon tetrachloride	2.2	U	2.2	1.4	ug/m3			12/30/22 18:02	10
Benzene	6.4	U	6.4	1.4	ug/m3			12/30/22 18:02	10
Trichloroethene	**6900**	**E**	1.9	1.3	ug/m3			12/30/22 18:02	10
Toluene	7.5	U	7.5	1.6	ug/m3			12/30/22 18:02	10
Tetrachloroethene	**20**		14	1.4	ug/m3			12/30/22 18:02	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			12/30/22 18:02	10
m,p-Xylene	22	U	22	4.1	ug/m3			12/30/22 18:02	10
Xylene, o-	8.7	U	8.7	2.3	ug/m3			12/30/22 18:02	10
Bromoform	21	U	21	12	ug/m3			12/30/22 18:02	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			12/30/22 18:02	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.1	U	3.1	0.84	ppb v/v			12/30/22 18:55	40
1,1-Dichloroethene	1.4	U	1.4	1.0	ppb v/v			12/30/22 18:55	40
Acetone	200	U	200	64	ppb v/v			12/30/22 18:55	40
Methylene Chloride	20	U	20	7.2	ppb v/v			12/30/22 18:55	40
trans-1,2-Dichloroethene	8.0	U	8.0	0.92	ppb v/v			12/30/22 18:55	40
1,1-Dichloroethane	8.0	U	8.0	1.0	ppb v/v			12/30/22 18:55	40
cis-1,2-Dichloroethene	**16**	**D**	2.0	0.84	ppb v/v			12/30/22 18:55	40
1,2-Dichloroethene, Total	**16**	**D**	16	4.0	ppb v/v			12/30/22 18:55	40
1,1,1-Trichloroethane	8.0	U	8.0	1.8	ppb v/v			12/30/22 18:55	40
Carbon tetrachloride	1.4	U	1.4	0.88	ppb v/v			12/30/22 18:55	40
Benzene	8.0	U	8.0	1.8	ppb v/v			12/30/22 18:55	40
Trichloroethene	**1500**	**D**	1.4	1.0	ppb v/v			12/30/22 18:55	40
Toluene	8.0	U	8.0	1.7	ppb v/v			12/30/22 18:55	40
Tetrachloroethene	**3.2**	**J D**	8.0	0.84	ppb v/v			12/30/22 18:55	40
Chlorobenzene	8.0	U	8.0	1.8	ppb v/v			12/30/22 18:55	40
m,p-Xylene	20	U	20	3.8	ppb v/v			12/30/22 18:55	40
Xylene, o-	8.0	U	8.0	2.1	ppb v/v			12/30/22 18:55	40
Bromoform	8.0	U	8.0	4.8	ppb v/v			12/30/22 18:55	40
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.7	ppb v/v			12/30/22 18:55	40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.0	U	8.0	2.1	ug/m3			12/30/22 18:55	40
1,1-Dichloroethene	5.6	U	5.6	4.1	ug/m3			12/30/22 18:55	40

Client Sample ID: Combined Influent - 122722

Lab Sample ID: 200-66284-3
Matrix: Air
Date Collected: 12/27/22 11:25
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	480	U	480	150	ug/m3			12/30/22 18:55	40
Methylene Chloride	69	U	69	25	ug/m3			12/30/22 18:55	40
trans-1,2-Dichloroethene	32	U	32	3.6	ug/m3			12/30/22 18:55	40
1,1-Dichloroethane	32	U	32	4.0	ug/m3			12/30/22 18:55	40
cis-1,2-Dichloroethene	**62**	**D**	7.9	3.3	ug/m3			12/30/22 18:55	40
1,2-Dichloroethene, Total	**63**	**D**	63	16	ug/m3			12/30/22 18:55	40
1,1,1-Trichloroethane	44	U	44	9.6	ug/m3			12/30/22 18:55	40
Carbon tetrachloride	8.8	U	8.8	5.5	ug/m3			12/30/22 18:55	40
Benzene	26	U	26	5.6	ug/m3			12/30/22 18:55	40
Trichloroethene	**7800**	**D**	7.5	5.4	ug/m3			12/30/22 18:55	40
Toluene	30	U	30	6.3	ug/m3			12/30/22 18:55	40
Tetrachloroethene	**22**	**J D**	54	5.7	ug/m3			12/30/22 18:55	40
Chlorobenzene	37	U	37	8.1	ug/m3			12/30/22 18:55	40
m,p-Xylene	87	U	87	17	ug/m3			12/30/22 18:55	40
Xylene, o-	35	U	35	9.0	ug/m3			12/30/22 18:55	40
Bromoform	83	U	83	50	ug/m3			12/30/22 18:55	40
1,1,2,2-Tetrachloroethane	55	U	55	12	ug/m3			12/30/22 18:55	40

Client Sample ID: Pre-VPGAC4-122722

Lab Sample ID: 200-66284-4
Matrix: Air
Date Collected: 12/27/22 11:30
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.21	ppb v/v			12/30/22 19:47	10
1,1-Dichloroethene	0.35	U	0.35	0.26	ppb v/v			12/30/22 19:47	10
Acetone	50	U	50	16	ppb v/v			12/30/22 19:47	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			12/30/22 19:47	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			12/30/22 19:47	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			12/30/22 19:47	10
cis-1,2-Dichloroethene	**17**		0.50	0.21	ppb v/v			12/30/22 19:47	10
1,2-Dichloroethene, Total	**17**		4.0	1.0	ppb v/v			12/30/22 19:47	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			12/30/22 19:47	10
Carbon tetrachloride	0.35	U	0.35	0.22	ppb v/v			12/30/22 19:47	10
Benzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 19:47	10
Trichloroethene	**1100**	**E**	0.35	0.25	ppb v/v			12/30/22 19:47	10
Toluene	**1.8**	**J**	2.0	0.42	ppb v/v			12/30/22 19:47	10
Tetrachloroethene	2.0	U	2.0	0.21	ppb v/v			12/30/22 19:47	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 19:47	10
m,p-Xylene	5.0	U	5.0	0.95	ppb v/v			12/30/22 19:47	10
Xylene, o-	2.0	U	2.0	0.52	ppb v/v			12/30/22 19:47	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			12/30/22 19:47	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			12/30/22 19:47	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.54	ug/m3			12/30/22 19:47	10
1,1-Dichloroethene	1.4	U	1.4	1.0	ug/m3			12/30/22 19:47	10
Acetone	120	U	120	38	ug/m3			12/30/22 19:47	10
Methylene Chloride	17	U	17	6.3	ug/m3			12/30/22 19:47	10

Client Sample ID: Pre-VPGAC4-122722

Lab Sample ID: 200-66284-4

Date Collected: 12/27/22 11:30
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			12/30/22 19:47	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			12/30/22 19:47	10
cis-1,2-Dichloroethene	**68**		2.0	0.83	ug/m3			12/30/22 19:47	10
1,2-Dichloroethene, Total	**67**		16	4.0	ug/m3			12/30/22 19:47	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			12/30/22 19:47	10
Carbon tetrachloride	2.2	U	2.2	1.4	ug/m3			12/30/22 19:47	10
Benzene	6.4	U	6.4	1.4	ug/m3			12/30/22 19:47	10
Trichloroethene	**5700**	**E**	1.9	1.3	ug/m3			12/30/22 19:47	10
Toluene	**6.9**	**J**	7.5	1.6	ug/m3			12/30/22 19:47	10
Tetrachloroethene	14	U	14	1.4	ug/m3			12/30/22 19:47	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			12/30/22 19:47	10
m,p-Xylene	22	U	22	4.1	ug/m3			12/30/22 19:47	10
Xylene, o-	8.7	U	8.7	2.3	ug/m3			12/30/22 19:47	10
Bromoform	21	U	21	12	ug/m3			12/30/22 19:47	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			12/30/22 19:47	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.9	U	3.9	1.1	ppb v/v			12/30/22 20:39	50
1,1-Dichloroethene	1.8	U	1.8	1.3	ppb v/v			12/30/22 20:39	50
Acetone	250	U	250	80	ppb v/v			12/30/22 20:39	50
Methylene Chloride	25	U	25	9.0	ppb v/v			12/30/22 20:39	50
trans-1,2-Dichloroethene	10	U	10	1.2	ppb v/v			12/30/22 20:39	50
1,1-Dichloroethane	10	U	10	1.3	ppb v/v			12/30/22 20:39	50
cis-1,2-Dichloroethene	**18**	**D**	2.5	1.1	ppb v/v			12/30/22 20:39	50
1,2-Dichloroethene, Total	**18**	**J D**	20	5.0	ppb v/v			12/30/22 20:39	50
1,1,1-Trichloroethane	10	U	10	2.2	ppb v/v			12/30/22 20:39	50
Carbon tetrachloride	1.8	U	1.8	1.1	ppb v/v			12/30/22 20:39	50
Benzene	10	U	10	2.2	ppb v/v			12/30/22 20:39	50
Trichloroethene	**1100**	**D**	1.8	1.3	ppb v/v			12/30/22 20:39	50
Toluene	10	U	10	2.1	ppb v/v			12/30/22 20:39	50
Tetrachloroethene	10	U	10	1.1	ppb v/v			12/30/22 20:39	50
Chlorobenzene	10	U	10	2.2	ppb v/v			12/30/22 20:39	50
m,p-Xylene	25	U	25	4.8	ppb v/v			12/30/22 20:39	50
Xylene, o-	10	U	10	2.6	ppb v/v			12/30/22 20:39	50
Bromoform	10	U	10	6.0	ppb v/v			12/30/22 20:39	50
1,1,2,2-Tetrachloroethane	10	U	10	2.2	ppb v/v			12/30/22 20:39	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	10	U	10	2.7	ug/m3			12/30/22 20:39	50
1,1-Dichloroethene	6.9	U	6.9	5.2	ug/m3			12/30/22 20:39	50
Acetone	590	U	590	190	ug/m3			12/30/22 20:39	50
Methylene Chloride	87	U	87	31	ug/m3			12/30/22 20:39	50
trans-1,2-Dichloroethene	40	U	40	4.6	ug/m3			12/30/22 20:39	50
1,1-Dichloroethane	40	U	40	5.1	ug/m3			12/30/22 20:39	50
cis-1,2-Dichloroethene	**71**	**D**	9.9	4.2	ug/m3			12/30/22 20:39	50
1,2-Dichloroethene, Total	**71**	**J D**	79	20	ug/m3			12/30/22 20:39	50
1,1,1-Trichloroethane	55	U	55	12	ug/m3			12/30/22 20:39	50
Carbon tetrachloride	11	U	11	6.9	ug/m3			12/30/22 20:39	50

Client Sample ID: Pre-VPGAC4-122722

Lab Sample ID: 200-66284-4
Matrix: Air
Date Collected: 12/27/22 11:30
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	32	U	32	7.0	ug/m3			12/30/22 20:39	50
Trichloroethene	**6100**	**D**	9.4	6.7	ug/m3			12/30/22 20:39	50
Toluene	38	U	38	7.9	ug/m3			12/30/22 20:39	50
Tetrachloroethene	68	U	68	7.1	ug/m3			12/30/22 20:39	50
Chlorobenzene	46	U	46	10	ug/m3			12/30/22 20:39	50
m,p-Xylene	110	U	110	21	ug/m3			12/30/22 20:39	50
Xylene, o-	43	U	43	11	ug/m3			12/30/22 20:39	50
Bromoform	100	U	100	62	ug/m3			12/30/22 20:39	50
1,1,2,2-Tetrachloroethane	69	U	69	15	ug/m3			12/30/22 20:39	50

Client Sample ID: Post Blower Eff - 122722

Lab Sample ID: 200-66284-5
Matrix: Air
Date Collected: 12/27/22 11:40
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.21	ppb v/v			12/30/22 21:32	10
1,1-Dichloroethene	0.35	U	0.35	0.26	ppb v/v			12/30/22 21:32	10
Acetone	50	U	50	16	ppb v/v			12/30/22 21:32	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			12/30/22 21:32	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			12/30/22 21:32	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			12/30/22 21:32	10
cis-1,2-Dichloroethene	**26**		0.50	0.21	ppb v/v			12/30/22 21:32	10
1,2-Dichloroethene, Total	**26**		4.0	1.0	ppb v/v			12/30/22 21:32	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			12/30/22 21:32	10
Carbon tetrachloride	0.35	U	0.35	0.22	ppb v/v			12/30/22 21:32	10
Benzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 21:32	10
Trichloroethene	**11**		0.35	0.25	ppb v/v			12/30/22 21:32	10
Toluene	**1.3**	**J**	2.0	0.42	ppb v/v			12/30/22 21:32	10
Tetrachloroethene	2.0	U	2.0	0.21	ppb v/v			12/30/22 21:32	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			12/30/22 21:32	10
m,p-Xylene	5.0	U	5.0	0.95	ppb v/v			12/30/22 21:32	10
Xylene, o-	2.0	U	2.0	0.52	ppb v/v			12/30/22 21:32	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			12/30/22 21:32	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			12/30/22 21:32	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.54	ug/m3			12/30/22 21:32	10
1,1-Dichloroethene	1.4	U	1.4	1.0	ug/m3			12/30/22 21:32	10
Acetone	120	U	120	38	ug/m3			12/30/22 21:32	10
Methylene Chloride	17	U	17	6.3	ug/m3			12/30/22 21:32	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			12/30/22 21:32	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			12/30/22 21:32	10
cis-1,2-Dichloroethene	**100**		2.0	0.83	ug/m3			12/30/22 21:32	10
1,2-Dichloroethene, Total	**100**		16	4.0	ug/m3			12/30/22 21:32	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			12/30/22 21:32	10
Carbon tetrachloride	2.2	U	2.2	1.4	ug/m3			12/30/22 21:32	10
Benzene	6.4	U	6.4	1.4	ug/m3			12/30/22 21:32	10
Trichloroethene	**62**		1.9	1.3	ug/m3			12/30/22 21:32	10

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Client Sample ID: Post Blower Eff - 122722
Lab Sample ID: 200-66284-5
Date Collected: 12/27/22 11:40
Matrix: Air
Date Received: 12/28/22 13:10
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**4.8**	**J**	7.5	1.6	ug/m3			12/30/22 21:32	10
Tetrachloroethene	14	U	14	1.4	ug/m3			12/30/22 21:32	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			12/30/22 21:32	10
m,p-Xylene	22	U	22	4.1	ug/m3			12/30/22 21:32	10
Xylene, o-	8.7	U	8.7	2.3	ug/m3			12/30/22 21:32	10
Bromoform	21	U	21	12	ug/m3			12/30/22 21:32	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			12/30/22 21:32	10

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-187164/4
Matrix: Air
Analysis Batch: 187164

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.078	U	0.078	0.021	ppb v/v			12/30/22 11:56	1
1,1-Dichloroethene	0.035	U	0.035	0.026	ppb v/v			12/30/22 11:56	1
Acetone	5.0	U	5.0	1.6	ppb v/v			12/30/22 11:56	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			12/30/22 11:56	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.023	ppb v/v			12/30/22 11:56	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			12/30/22 11:56	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.021	ppb v/v			12/30/22 11:56	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.10	ppb v/v			12/30/22 11:56	1
1,1,1-Trichloroethane	0.20	U	0.20	0.044	ppb v/v			12/30/22 11:56	1
Carbon tetrachloride	0.035	U	0.035	0.022	ppb v/v			12/30/22 11:56	1
Benzene	0.20	U	0.20	0.044	ppb v/v			12/30/22 11:56	1
Trichloroethene	0.035	U	0.035	0.025	ppb v/v			12/30/22 11:56	1
Toluene	0.20	U	0.20	0.042	ppb v/v			12/30/22 11:56	1
Tetrachloroethene	0.20	U	0.20	0.021	ppb v/v			12/30/22 11:56	1
Chlorobenzene	0.20	U	0.20	0.044	ppb v/v			12/30/22 11:56	1
m,p-Xylene	0.50	U	0.50	0.095	ppb v/v			12/30/22 11:56	1
Xylene, o-	0.20	U	0.20	0.052	ppb v/v			12/30/22 11:56	1
Bromoform	0.20	U	0.20	0.12	ppb v/v			12/30/22 11:56	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			12/30/22 11:56	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.054	ug/m3			12/30/22 11:56	1
1,1-Dichloroethene	0.14	U	0.14	0.10	ug/m3			12/30/22 11:56	1
Acetone	12	U	12	3.8	ug/m3			12/30/22 11:56	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			12/30/22 11:56	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.091	ug/m3			12/30/22 11:56	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			12/30/22 11:56	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.083	ug/m3			12/30/22 11:56	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.40	ug/m3			12/30/22 11:56	1
1,1,1-Trichloroethane	1.1	U	1.1	0.24	ug/m3			12/30/22 11:56	1
Carbon tetrachloride	0.22	U	0.22	0.14	ug/m3			12/30/22 11:56	1
Benzene	0.64	U	0.64	0.14	ug/m3			12/30/22 11:56	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			12/30/22 11:56	1
Toluene	0.75	U	0.75	0.16	ug/m3			12/30/22 11:56	1
Tetrachloroethene	1.4	U	1.4	0.14	ug/m3			12/30/22 11:56	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			12/30/22 11:56	1
m,p-Xylene	2.2	U	2.2	0.41	ug/m3			12/30/22 11:56	1
Xylene, o-	0.87	U	0.87	0.23	ug/m3			12/30/22 11:56	1
Bromoform	2.1	U	2.1	1.2	ug/m3			12/30/22 11:56	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			12/30/22 11:56	1

Lab Sample ID: LCS 200-187164/3
Matrix: Air
Analysis Batch: 187164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			10.0	10.2		ppb v/v		102	61 - 135		
1,1-Dichloroethene			10.0	9.96		ppb v/v		100	68 - 120		
Acetone			10.0	11.9		ppb v/v		119	54 - 154		

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-187164/3
Matrix: Air
Analysis Batch: 187164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	10.0	11.5		ppb v/v		115	59 - 137
trans-1,2-Dichloroethene	10.0	11.1		ppb v/v		111	69 - 137
1,1-Dichloroethane	10.0	11.1		ppb v/v		111	66 - 130
cis-1,2-Dichloroethene	10.0	10.1		ppb v/v		102	72 - 121
1,1,1-Trichloroethane	10.0	9.53		ppb v/v		95	72 - 127
Carbon tetrachloride	10.0	9.61		ppb v/v		96	71 - 133
Benzene	10.0	10.6		ppb v/v		106	73 - 119
Trichloroethene	10.0	9.91		ppb v/v		99	73 - 122
Toluene	10.0	10.5		ppb v/v		105	75 - 122
Tetrachloroethene	10.0	9.28		ppb v/v		93	70 - 125
Chlorobenzene	10.0	10.1		ppb v/v		101	76 - 119
m,p-Xylene	20.0	20.7		ppb v/v		104	76 - 121
Xylene, o-	10.0	10.3		ppb v/v		103	73 - 123
Bromoform	10.0	9.52		ppb v/v		95	53 - 149
1,1,2,2-Tetrachloroethane	10.0	10.6		ppb v/v		106	74 - 126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	26	26.0		ug/m3		102	61 - 135
1,1-Dichloroethene	40	39.5		ug/m3		100	68 - 120
Acetone	24	28.3		ug/m3		119	54 - 154
Methylene Chloride	35	40.0		ug/m3		115	59 - 137
trans-1,2-Dichloroethene	40	44.1		ug/m3		111	69 - 137
1,1-Dichloroethane	40	44.8		ug/m3		111	66 - 130
cis-1,2-Dichloroethene	40	40.2		ug/m3		102	72 - 121
1,1,1-Trichloroethane	55	52.0		ug/m3		95	72 - 127
Carbon tetrachloride	63	60.5		ug/m3		96	71 - 133
Benzene	32	33.9		ug/m3		106	73 - 119
Trichloroethene	54	53.3		ug/m3		99	73 - 122
Toluene	38	39.7		ug/m3		105	75 - 122
Tetrachloroethene	68	62.9		ug/m3		93	70 - 125
Chlorobenzene	46	46.3		ug/m3		101	76 - 119
m,p-Xylene	87	89.9		ug/m3		104	76 - 121
Xylene, o-	43	44.8		ug/m3		103	73 - 123
Bromoform	100	98.4		ug/m3		95	53 - 149
1,1,2,2-Tetrachloroethane	69	73.1		ug/m3		106	74 - 126

Air - GC/MS VOA

Analysis Batch: 187164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-66284-1	SDS-1-122722	Total/NA	Air	TO-15	
200-66284-1 - DL	SDS-1-122722	Total/NA	Air	TO-15	
200-66284-2	SDS-2-122722	Total/NA	Air	TO-15	
200-66284-2 - DL	SDS-2-122722	Total/NA	Air	TO-15	
200-66284-3	Combined Influent - 122722	Total/NA	Air	TO-15	
200-66284-3 - DL	Combined Influent - 122722	Total/NA	Air	TO-15	
200-66284-4	Pre-VPGAC4-122722	Total/NA	Air	TO-15	
200-66284-4 - DL	Pre-VPGAC4-122722	Total/NA	Air	TO-15	
200-66284-5	Post Blower Eff - 122722	Total/NA	Air	TO-15	
MB 200-187164/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-187164/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Client Sample ID: SDS-1-122722
Lab Sample ID: 200-66284-1
Date Collected: 12/27/22 11:15
Matrix: Air
Date Received: 12/28/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		20	187164	TPB	EET BUR	12/30/22 14:32
Total/NA	Analysis	TO-15	DL	100	187164	TPB	EET BUR	12/30/22 15:25

Client Sample ID: SDS-2-122722
Lab Sample ID: 200-66284-2
Date Collected: 12/27/22 11:20
Matrix: Air
Date Received: 12/28/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		12	187164	TPB	EET BUR	12/30/22 16:17
Total/NA	Analysis	TO-15	DL	61	187164	TPB	EET BUR	12/30/22 17:10

Client Sample ID: Combined Influent - 122722
Lab Sample ID: 200-66284-3
Date Collected: 12/27/22 11:25
Matrix: Air
Date Received: 12/28/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	187164	TPB	EET BUR	12/30/22 18:02
Total/NA	Analysis	TO-15	DL	40	187164	TPB	EET BUR	12/30/22 18:55

Client Sample ID: Pre-VPGAC4-122722
Lab Sample ID: 200-66284-4
Date Collected: 12/27/22 11:30
Matrix: Air
Date Received: 12/28/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	187164	TPB	EET BUR	12/30/22 19:47
Total/NA	Analysis	TO-15	DL	50	187164	TPB	EET BUR	12/30/22 20:39

Client Sample ID: Post Blower Eff - 122722
Lab Sample ID: 200-66284-5
Date Collected: 12/27/22 11:40
Matrix: Air
Date Received: 12/28/22 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	187164	TPB	EET BUR	12/30/22 21:32

Laboratory References:
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-66284-1
SDG: 200-66284-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-66284-1	SDS-1-122722	Air	12/27/22 11:15	12/28/22 13:10	Air Canister (1-Liter) #6493
200-66284-2	SDS-2-122722	Air	12/27/22 11:20	12/28/22 13:10	Air Canister (1-Liter) #4486
200-66284-3	Combined Influent - 122722	Air	12/27/22 11:25	12/28/22 13:10	Air Canister (1-Liter) #34000935
200-66284-4	Pre-VPGAC4-122722	Air	12/27/22 11:30	12/28/22 13:10	Air Canister (1-Liter) #6392
200-66284-5	Post Blower Eff - 122722	Air	12/27/22 11:40	12/28/22 13:10	Air Canister (1-Liter) #34002419

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660 1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

200-66284 Chain of Custody

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Aaron Richardson	**Samples Collected By:** RDC & RKW
Company Name: Arcadis	**Phone:** 585-662-4024	COC No: 1 of 1 COCs
Address 100 Chestnut St Suite 1020	**Email:** Aaron.Richardson@Arcadis.com	TALS Project #:
City/State/Zip Rochester, NY 14604	**Site Contact:** Ryan Clark	**For Lab Use Only:** Walk-in Client:
Phone:	**Tel/Fax** 585-662-4057	Lab Sampling:
FAX:	**Analysis Turnaround Time**	Job / SDG No :
Project Name Crosman	Standard (Specific): 10-DAY	(See below for Add'l Items)
Site/Location: Bloomfield, NY	Rush (Specifiy):	
P O # 30005702.12		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14A (15) (Standard) Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SDS-1-122722	12/27/22	1115	NA	NA	-30	-5	NA	6493	X														
SDS-2-122722		1120		NA	-30	-6		4486	X														
Combined Influent-122722		1125			-30	-6		34000935	X														
Pre-VPGAC4-122722		1130			-29	-5		6392	X														
~~Post Dilution Eff-122722~~ (2)		—			—	—		—	~~X~~	(2)													not enough vac in can
Post Blower Eff-122722		1140			-29	-3		34002419	X														

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop	65	26

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:** ~~12-27-22~~ (2)	**Samples Received by:**
Samples Relinquished by: Ryan Clark Arcadis	**Date / Time:** 12-27-22 1400	**Received by:** ETA Burl 12/28/22 1310
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

1/5/2023

ORIGIN ID:ROCA (585) 662-4057
ARCADIS
100 CHESTNUT ST STE 1020

ROCHESTER, NY 14604
UNITED STATES US

SHIP DATE: 27DEC22
ACTWGT: 18.50 LB
CAD: 6994895/SSFE2341
DIMS: 21x17x10 IN

BILL THIRD PARTY

Part # 156297-434 RIT2 EXP 05/23

TO EUROFINS/TEST AMERICA
EUROFINS/TEST AMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
INV:
PO:
REF:
DEPT:

FedEx
Express

E

WED - 28 DEC 4:30P
STANDARD OVERNIGHT

TRK# 0201 3927 1980 0362

XE BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-66284-1
SDG Number: 200-66284-1

Login Number: 66284
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1999210, 9211
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	11/9/2022	1306	22	22	SML	1 liter	batch

						Initial Reading					Final Reading				
Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	4847	1.08	1.08	0	29.6	G26	11/10/22	1119		22.0	G26	11/11/22	1202		22.0
2	5931		1.08	0		G26					G26				
3	4486		1.08	0		G26					G26				
4	5879		1.08	0		G26					G26				
5	34000764		1.08	0		G26					G26				
6	34001090		1.08	0		G26					G26				
7	5924		1.08	0		G26					G26				
8	34000647		1.08	0		G26					G26				
9	6360		1.08	0		G26					G26				
10	8511		1.08	0		G26					G26				
11	6362	1.08	1.08	0		G26	11/11/22	1200		22.0	G26				
12	8979	1.08	1.08	0		G26	11/10/22	1119		22.0	G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

				Inventory Level				Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer
6362	11/11/22	53270	AB1			XXXXXX			11/11/22	CC

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	400	300	12/7/2022	1426	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	6357	.08	1.08	0	29.9	G26	12/8/22	1420	JDB	23	G26	12/13/22	1326		22.0
2	34001629		1.02	0		G26					G26				
3	34002419		1.08	0		G26					G26				
4	34001794		1.18	.10		G26					G26				
5	34002482		1.08	0		G26					G26				
6	4657	.08	1.08	0		G26	12/13/22	1326		22.0	G26				
7	6384	.08	1.08	0		G26	12/8/22	1420	JDB	22	G26				
8	34001068		1.08	0		G26					G26				
9	4966		1.24	1.16		G26					G26				
10	6269		1.26	1.18		G26					G26				
11	34000999		1.08	0		G26					G26				
12	34000935		1.08	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
4657	12/13/22	53631	KPI			XXXXXX			12/13/22	JDB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	12/8/2022	1252	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	8953	1.08	1.08	0	29.8	G26	12/9/22	1237	←	22.0	G26	12/14/22	1457	←	22.0
2	6466	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
3	34000234	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
4	34001078	↓	1.28	.20	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
5	5916	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
6	6493	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
7	5950	1.08	1.08	0	↓	G26	12/14/22	1452	←	22.0	G26	↓	↓	↓	↓
8	6392	1.08	1.08	0	↓	G26	12/9/22	1237	←	22.0	G26	↓	↓	↓	↓
9	6411	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
10	3648	↓	1.16	1.08	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
11	4391	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
12	6322	↓	1.08	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
5950	12/12/22	53615	AG1			XXXXX			12/16/22	DP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65691-1

SDG No.:

Client Sample ID: 6362 Lab Sample ID: 200-65691-11

Matrix: Air Lab File ID: 53270-06.D

Analysis Method: TO-15 Date Collected: 11/09/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 11/10/2022 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 185642 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65691-1

SDG No.:

Client Sample ID: 6362 Lab Sample ID: 200-65691-11

Matrix: Air Lab File ID: 53270-06.D

Analysis Method: TO-15 Date Collected: 11/09/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 11/10/2022 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 185642 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-65691-1

SDG No.:

Client Sample ID: 6362 | Lab Sample ID: 200-65691-11

Matrix: Air | Lab File ID: 53270-06.D

Analysis Method: TO-15 | Date Collected: 11/09/2022 00:00

Sample wt/vol: 200 (mL) | Date Analyzed: 11/10/2022 13:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32 (mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 185642 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U *+	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D
Lims ID: 200-65691-A-11
Client ID: 6362
Sample Type: Client
Inject. Date: 10-Nov-2022 13:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0053270-006
Misc. Info.: 65691-11
Operator ID: vtp Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 11-Nov-2022 10:50:00 Calib Date: 05-Oct-2022 01:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20221004-52704.b\52704-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: bunmaa Date: 11-Nov-2022 08:19:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.349				ND	7
3 Dichlorodifluoromethane	85		4.445				ND	
4 Chlorodifluoromethane	51		4.482				ND	7
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.798				ND	
6 Chloromethane	50		4.910				ND	7
7 Vinyl chloride	62		5.215				ND	
8 Butane	43		5.226				ND	7
9 Butadiene	54		5.333				ND	
10 Bromomethane	94		6.028				ND	
12 Chloroethane	64		6.296				ND	
14 Vinyl bromide	106		6.708				ND	
15 Trichlorofluoromethane	101		6.868				ND	
17 Ethanol	45	7.312	7.221	0.091	96	2903	0.1697	
20 1,1-Dichloroethene	96		7.906				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.944				ND	
22 Acetone	43		7.992				ND	7
23 Isopropyl alcohol	45		8.302				ND	7
24 Carbon disulfide	76		8.329				ND	
27 3-Chloro-1-propene	41		8.591				ND	7
28 Methylene Chloride	49		8.810				ND	MU
29 2-Methyl-2-propanol	59		9.104				ND	
32 trans-1,2-Dichloroethene	61		9.318				ND	
31 Methyl tert-butyl ether	73		9.356				ND	7
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.827				ND	
36 1,1-Dichloroethane	63		10.062				ND	
35 Vinyl acetate	43		10.078				ND	
37 2-Butanone (MEK)	72		11.020				ND	
38 cis-1,2-Dichloroethene	96		11.041				ND	
39 Ethyl acetate	88		11.116				ND	
* 40 Chlorobromomethane	128	11.453	11.453	0.000	77	232931	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		11.528				ND	
	42 Chloroform	83		11.624				ND	
	43 1,1,1-Trichloroethane	97		11.940				ND	
	44 Cyclohexane	84		12.095				ND	
	45 Carbon tetrachloride	117		12.229				ND	
	46 Benzene	78		12.560				ND	7
	47 1,2-Dichloroethane	62		12.630				ND	
	48 Isooctane	57		12.785				ND	
	49 n-Heptane	43		13.095				ND	7
*	50 1,4-Difluorobenzene	114	13.288	13.288	0.000	94	1184592	10.0	
	52 Trichloroethene	95		13.727				ND	
	55 1,2-Dichloropropane	63		14.176				ND	
	56 Methyl methacrylate	69		14.262				ND	
	58 Dibromomethane	174		14.331				ND	
	57 1,4-Dioxane	88		14.353				ND	
	59 Dichlorobromomethane	83		14.636				ND	
	60 cis-1,3-Dichloropropene	75		15.433				ND	
	62 4-Methyl-2-pentanone (MIBK)	43		15.727				ND	
	63 Toluene	92		16.080				ND	
	67 trans-1,3-Dichloropropene	75		16.476				ND	
	68 1,1,2-Trichloroethane	83		16.856				ND	
	69 Tetrachloroethene	166		17.076				ND	
	70 2-Hexanone	43		17.386				ND	
	71 Chlorodibromomethane	129		17.600				ND	
	72 Ethylene Dibromide	107		17.841				ND	
*	73 Chlorobenzene-d5	117	18.745	18.745	0.000	88	1030085	10.0	
	74 Chlorobenzene	112		18.809				ND	7
	75 Ethylbenzene	91		19.001				ND	7
	76 m-Xylene & p-Xylene	106		19.258				ND	
S	78 Xylenes, Total	106		19.600				ND	7
	79 o-Xylene	106		20.034				ND	
	80 Styrene	104		20.066				ND	
	81 Bromoform	173		20.419				ND	
	82 Isopropylbenzene	105		20.729				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.238				ND	7
	85 N-Propylbenzene	91		21.452				ND	7
	86 2-Chlorotoluene	91		21.596				ND	7
	87 4-Ethyltoluene	105		21.650				ND	7
	88 1,3,5-Trimethylbenzene	105		21.746				ND	7
	91 tert-Butylbenzene	119		22.227				ND	7
	92 1,2,4-Trimethylbenzene	105		22.313				ND	7
	93 sec-Butylbenzene	105		22.554				ND	7
	94 1,3-Dichlorobenzene	146	22.725	22.725	0.000	88	988	0.007575	7M
	95 4-Isopropyltoluene	119		22.768				ND	7
	96 1,4-Dichlorobenzene	146	22.869	22.869	0.000	91	1530	0.0118	M
	97 Benzyl chloride	91		23.008				ND	7
	98 n-Butylbenzene	91		23.324				ND	7
	99 1,2-Dichlorobenzene	146		23.351				ND	7
	102 1,2,4-Trichlorobenzene	180		25.774				ND	7
	103 Hexachlorobutadiene	225		26.020				ND	
	104 Naphthalene	128		26.245				ND	MU

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15XISs_00003 Amount Added: 20.00 Units: mL Run Reagent

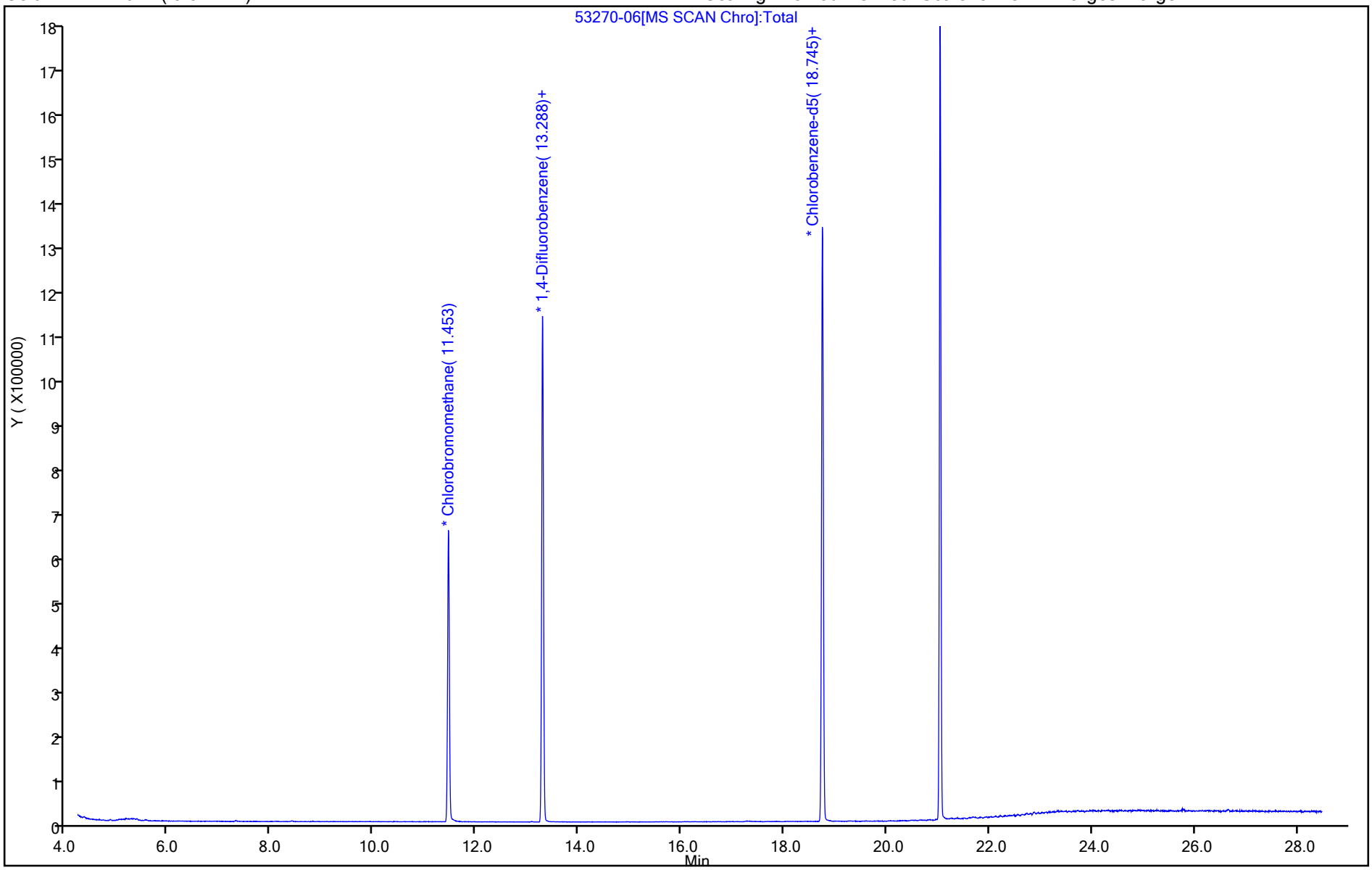
Report Date: 11-Nov-2022 12:54:13 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D

Injection Date:	10-Nov-2022 13:08:30	Instrument ID:	CHX.i	Operator ID:	vtp
Lims ID:	200-65691-A-11	Lab Sample ID:	200-65691-11	Worklist Smp#:	6
Client ID:	6362				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



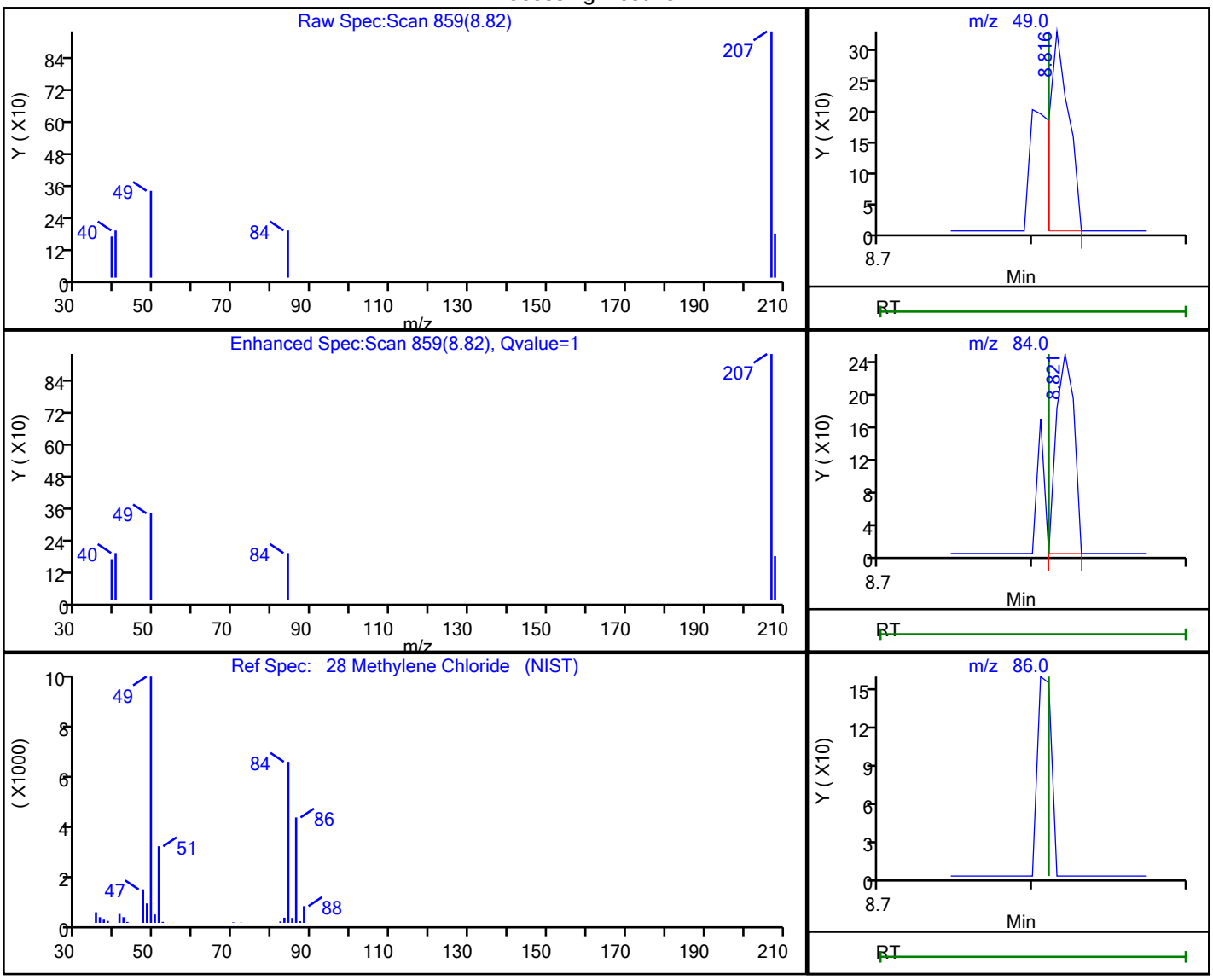
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D				
Injection Date:	10-Nov-2022 13:08:30	Instrument ID:	CHX.i		
Lims ID:	200-65691-A-11	Lab Sample ID:	200-65691-11		
Client ID:	6362				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

28 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
8.82	49.00	285	0.007925
8.82	84.00	198	
8.81	86.00	0	

Reviewer: bunmaa, 11-Nov-2022 08:17:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Burlington

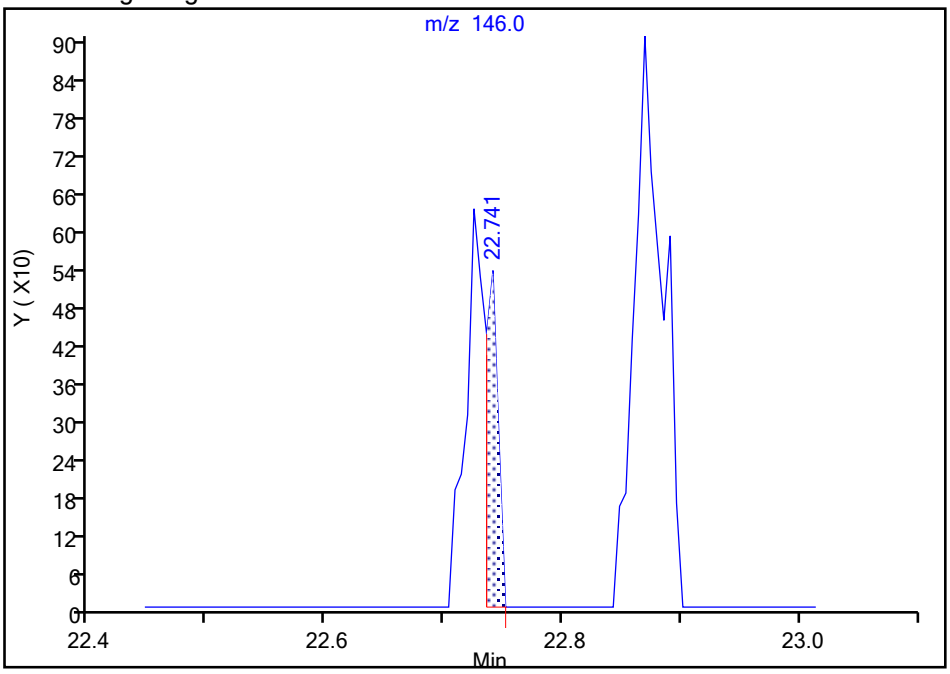
Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D				
Injection Date:	10-Nov-2022 13:08:30	Instrument ID:	CHX.i		
Lims ID:	200-65691-A-11	Lab Sample ID:	200-65691-11		
Client ID:	6362				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

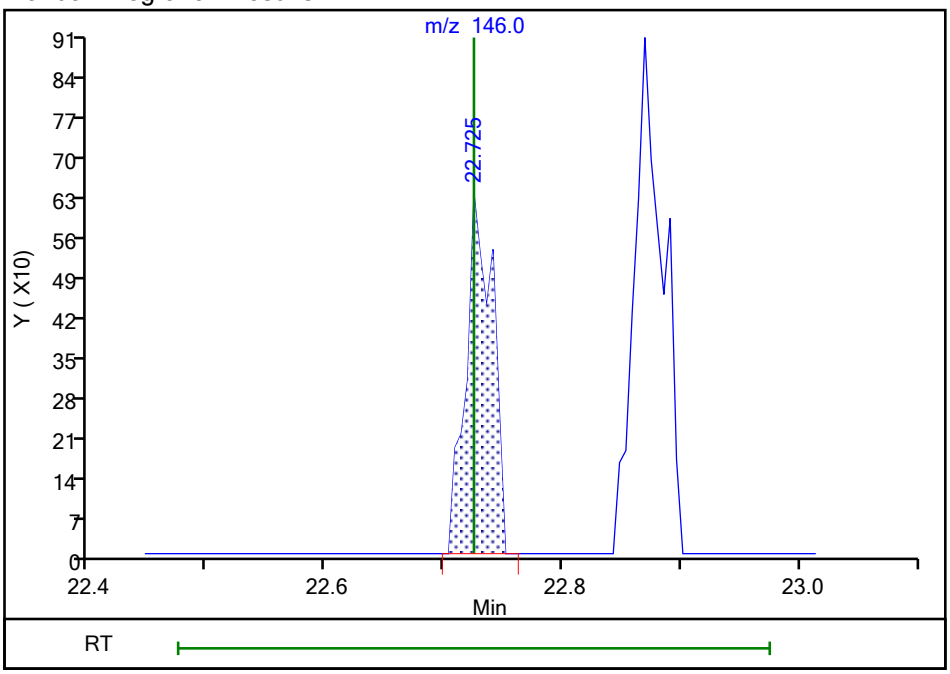
Processing Integration Results

RT: 22.74
Area: 392
Amount: 0.003005
Amount Units: ppb v/v



Manual Integration Results

RT: 22.72
Area: 988
Amount: 0.007575
Amount Units: ppb v/v



Reviewer: bunmaa, 11-Nov-2022 08:18:08

Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Burlington

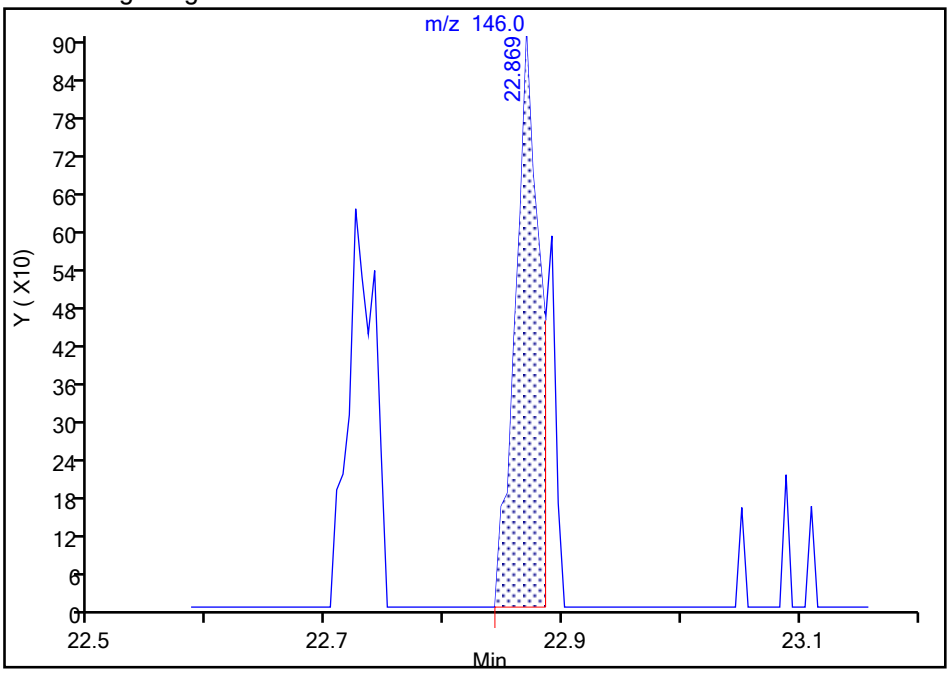
Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D				
Injection Date:	10-Nov-2022 13:08:30	Instrument ID:	CHX.i		
Lims ID:	200-65691-A-11	Lab Sample ID:	200-65691-11		
Client ID:	6362				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

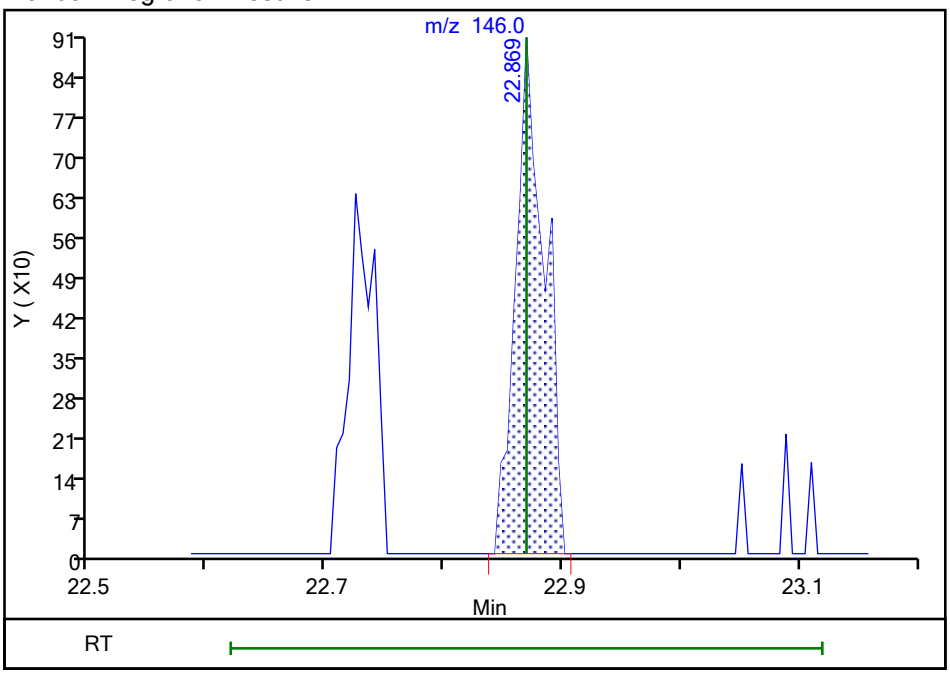
Processing Integration Results

RT: 22.87
Area: 1288
Amount: 0.009914
Amount Units: ppb v/v



Manual Integration Results

RT: 22.87
Area: 1530
Amount: 0.011777
Amount Units: ppb v/v



Reviewer: bunmaa, 11-Nov-2022 08:18:29
Audit Action: Manually Integrated Audit Reason: Assign Peak

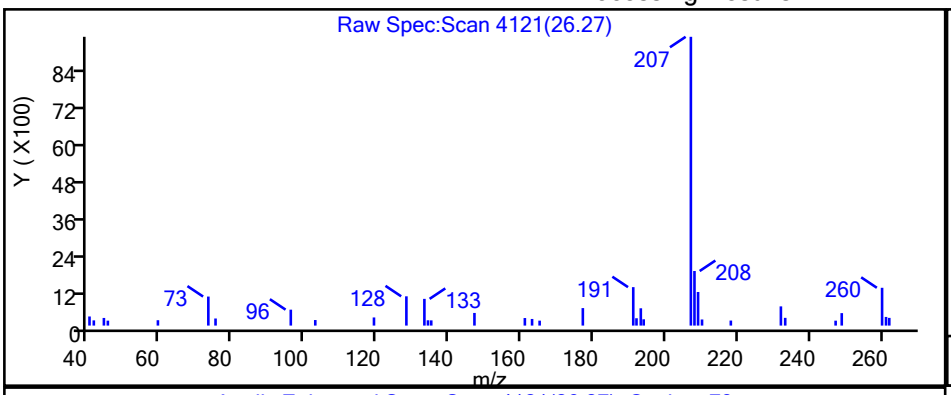
User Disabled Compound Report

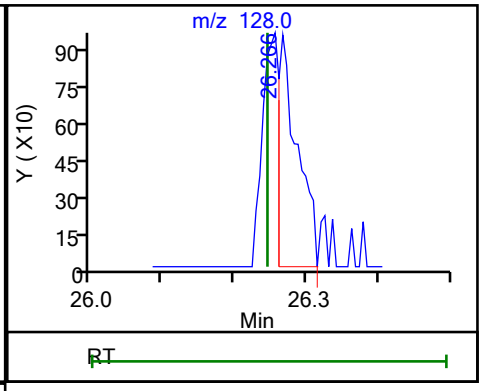
Eurofins Burlington

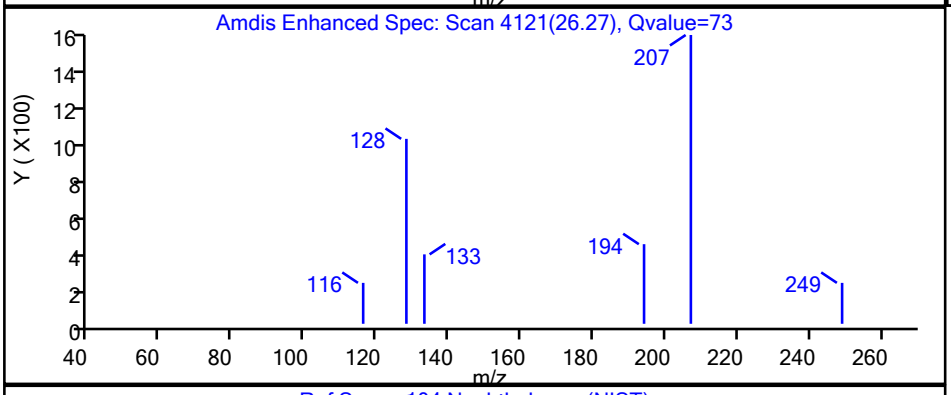
Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221110-53270.b\53270-06.D				
Injection Date:	10-Nov-2022 13:08:30	Instrument ID:	CHX.i		
Lims ID:	200-65691-A-11	Lab Sample ID:	200-65691-11		
Client ID:	6362				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

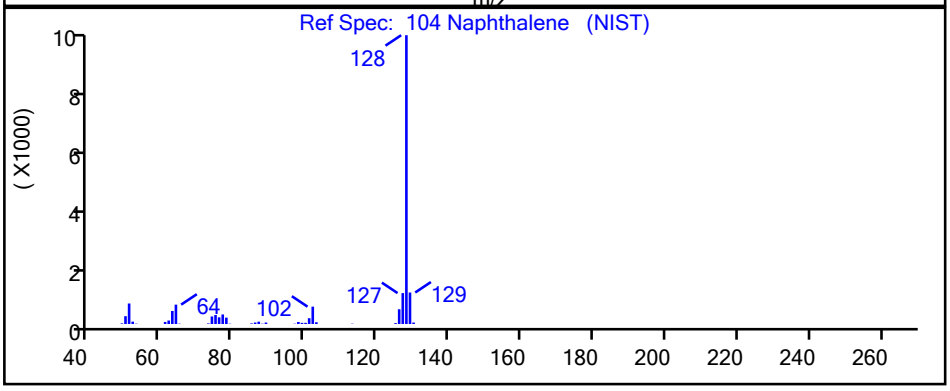
104 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
26.27	128.00	1752	0.007061

Reviewer: bunmaa, 11-Nov-2022 08:19:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66032-1

SDG No.:

Client Sample ID: 4657 Lab Sample ID: 200-66032-6

Matrix: Air Lab File ID: 53631-007.D

Analysis Method: TO-15 Date Collected: 12/07/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2022 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 186573 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66032-1

SDG No.:

Client Sample ID: 4657 Lab Sample ID: 200-66032-6

Matrix: Air Lab File ID: 53631-007.D

Analysis Method: TO-15 Date Collected: 12/07/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2022 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 186573 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66032-1

SDG No.:

Client Sample ID: 4657 Lab Sample ID: 200-66032-6

Matrix: Air Lab File ID: 53631-007.D

Analysis Method: TO-15 Date Collected: 12/07/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2022 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 186573 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20221212-53631.b\53631-007.D
Lims ID: 200-66032-A-6
Client ID: 4657
Sample Type: Client
Inject. Date: 12-Dec-2022 12:02:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0053631-007
Misc. Info.: 66032-6
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20221212-53631.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Dec-2022 08:08:50 Calib Date: 06-Dec-2022 00:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20221205-53552.b\53552-013.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: puangmaleek Date: 13-Dec-2022 08:08:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.799				ND	7
2 Dichlorodifluoromethane	85		2.863				ND	7
3 Chlorodifluoromethane	51		2.895				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.087				ND	7
5 Chloromethane	50		3.189				ND	7
6 Butane	43		3.376				ND	7
7 Vinyl chloride	62		3.397				ND	
8 Butadiene	54		3.466				ND	
9 Bromomethane	94		4.037				ND	
10 Chloroethane	64		4.251				ND	
13 Vinyl bromide	106		4.609				ND	
14 Trichlorofluoromethane	101		4.731				ND	
16 Ethanol	45		5.276				ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.756				ND	
20 1,1-Dichloroethene	96		5.761				ND	
21 Acetone	43		5.959				ND	
22 Carbon disulfide	76		6.119				ND	
23 Isopropyl alcohol	45		6.327				ND	
24 3-Chloro-1-propene	41		6.492				ND	7
26 Methylene Chloride	49		6.765				ND	7
28 2-Methyl-2-propanol	59		7.090				ND	
29 trans-1,2-Dichloroethene	61		7.224				ND	
30 Methyl tert-butyl ether	73		7.245				ND	
32 Hexane	57		7.667				ND	
33 1,1-Dichloroethane	63		8.045				ND	
34 Vinyl acetate	43		8.152				ND	
35 cis-1,2-Dichloroethene	96		9.118				ND	
36 2-Butanone (MEK)	72		9.166				ND	
37 Ethyl acetate	88		9.268				ND	
* 38 Chlorobromomethane	128	9.545	9.550	-0.005	93	330489	20.0	
39 Tetrahydrofuran	42		9.625				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Chloroform	83		9.705				ND	
	41 1,1,1-Trichloroethane	97		9.977				ND	
	42 Cyclohexane	84		9.999				ND	
S	43 1,2-Dichloroethene, Total	61		10.200				ND	7
	44 Carbon tetrachloride	117		10.250				ND	
	45 Benzene	78		10.661				ND	7
	46 Isooctane	57		10.735				ND	
	47 1,2-Dichloroethane	62		10.805				ND	
	48 n-Heptane	43		11.141				ND	
*	49 1,4-Difluorobenzene	114	11.504	11.509	-0.005	98	2026265	20.0	
	50 Trichloroethene	95		11.979				ND	
	53 1,2-Dichloropropane	63		12.464				ND	
	56 Dibromomethane	174		12.710				ND	7
	55 Methyl methacrylate	69		12.715				ND	
	57 1,4-Dioxane	88		12.758				ND	
	58 Dichlorobromomethane	83		13.035				ND	
	59 cis-1,3-Dichloropropene	75		14.001				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		14.327				ND	
	62 Toluene	92		14.621				ND	
	66 trans-1,3-Dichloropropene	75		15.213				ND	
	67 1,1,2-Trichloroethane	83		15.571				ND	
	68 Tetrachloroethene	166		15.752				ND	
	69 2-Hexanone	43		16.088				ND	
	70 Chlorodibromomethane	129		16.344				ND	
	71 Ethylene Dibromide	107		16.585				ND	
*	72 Chlorobenzene-d5	117	17.529	17.529	0.000	96	1864584	20.0	
	73 Chlorobenzene	112		17.588				ND	
	74 Ethylbenzene	91		17.775				ND	MU
	76 m-Xylene & p-Xylene	106		18.031				ND	
	77 o-Xylene	106		18.858				ND	
	78 Styrene	104		18.906				ND	
	80 Bromoform	173		19.306				ND	
	81 Isopropylbenzene	105		19.616				ND	
S	82 Xylenes, Total	106		20.100				ND	7
	83 1,1,2,2-Tetrachloroethane	83		20.315				ND	
	85 N-Propylbenzene	91		20.432				ND	7
	86 2-Chlorotoluene	91		20.625				ND	7
	87 4-Ethyltoluene	105		20.646				ND	
	89 1,3,5-Trimethylbenzene	105		20.769				ND	
	91 tert-Butylbenzene	119		21.297				ND	7
	92 1,2,4-Trimethylbenzene	105		21.398				ND	
	93 sec-Butylbenzene	105		21.655				ND	
	95 1,3-Dichlorobenzene	146		21.873				ND	7
	94 4-Isopropyltoluene	119		21.873				ND	7
	96 1,4-Dichlorobenzene	146		22.017				ND	7
	97 Benzyl chloride	91		22.204				ND	7
	98 n-Butylbenzene	91		22.466				ND	7
	100 1,2-Dichlorobenzene	146		22.546				ND	
	102 1,2,4-Trichlorobenzene	180		24.841				ND	
	103 Hexachlorobutadiene	225		25.049				ND	
	104 Naphthalene	128		25.236				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00011 Amount Added: 40.00 Units: mL Run Reagent

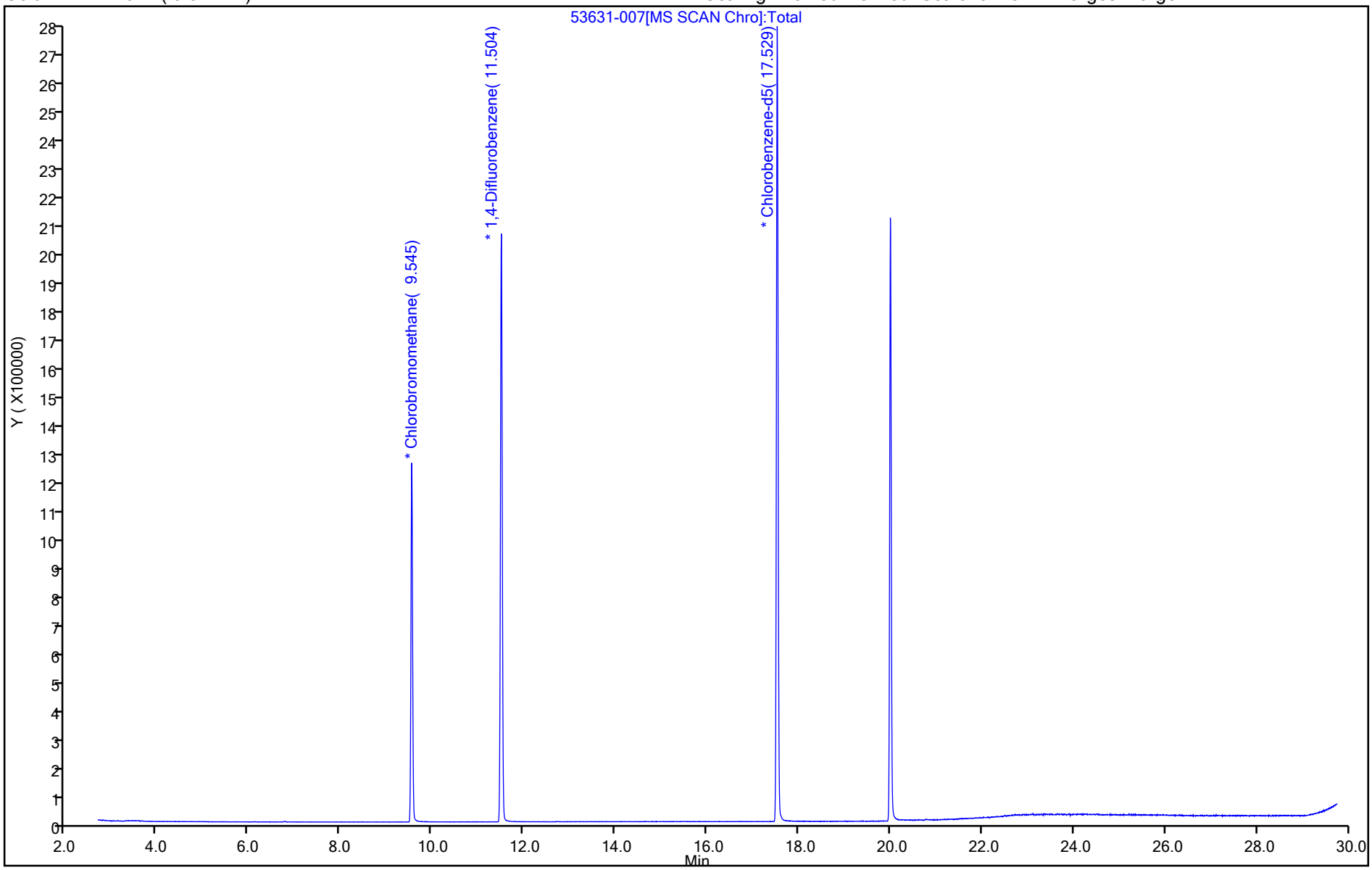
Report Date: 13-Dec-2022 08:08:50 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20221212-53631.b\53631-007.D

Injection Date:	12-Dec-2022 12:02:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-66032-A-6	Lab Sample ID:	200-66032-6	Worklist Smp#:	7
Client ID:	4657				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



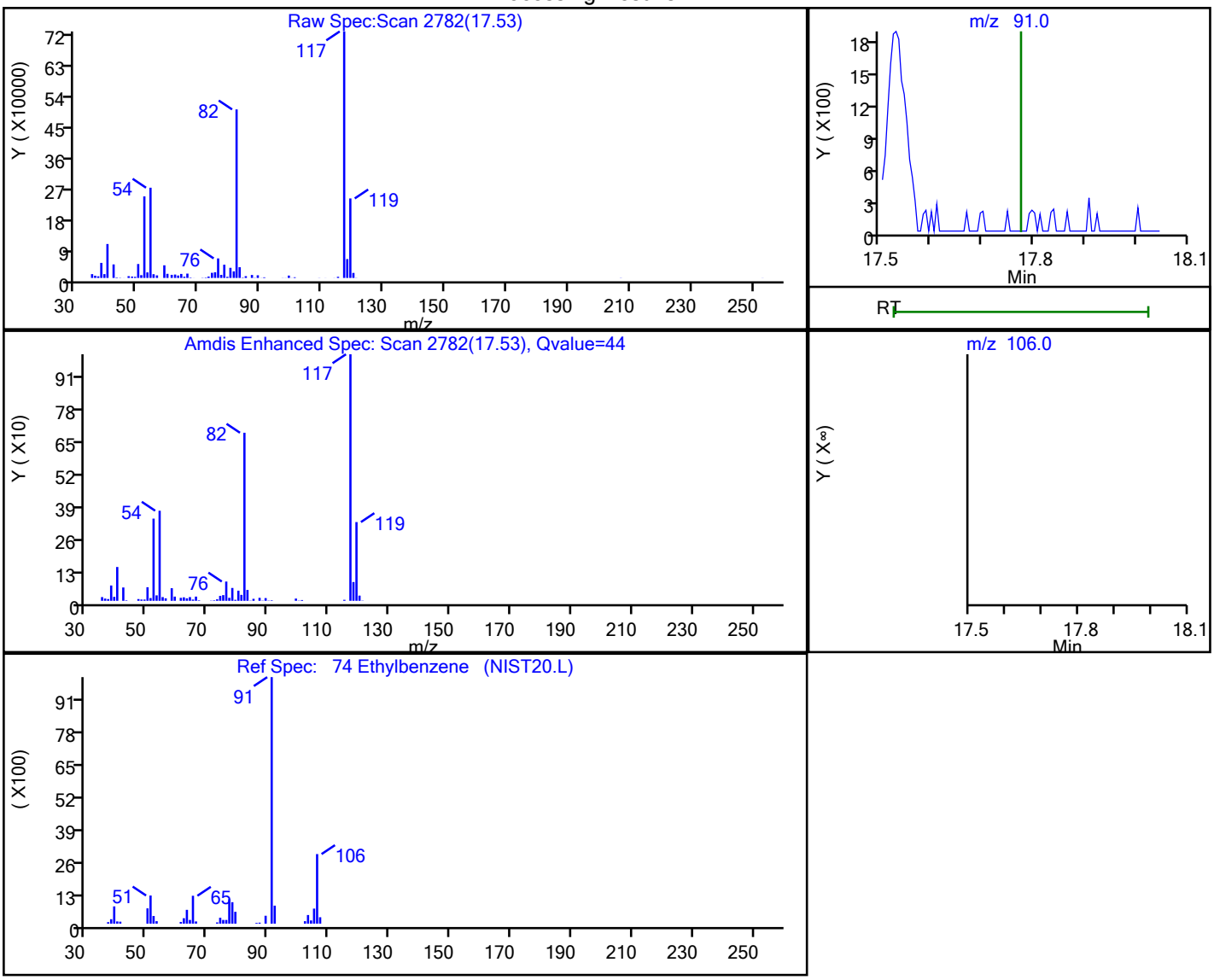
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20221212-53631.b\53631-007.D				
Injection Date:	12-Dec-2022 12:02:30	Instrument ID:	CHC.i		
Lims ID:	200-66032-A-6	Lab Sample ID:	200-66032-6		
Client ID:	4657				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

74 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
17.53	91.00	4763	0.019823
17.77	106.00	0	

Reviewer: puangmaleek, 13-Dec-2022 08:08:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66049-1

SDG No.:

Client Sample ID: 5950 Lab Sample ID: 200-66049-7

Matrix: Air Lab File ID: 53615-24.D

Analysis Method: TO-15 Date Collected: 12/08/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 12/10/2022 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 186533 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-66049-1

SDG No.:

Client Sample ID: 5950 | Lab Sample ID: 200-66049-7

Matrix: Air | Lab File ID: 53615-24.D

Analysis Method: TO-15 | Date Collected: 12/08/2022 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/10/2022 03:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 186533 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66049-1

SDG No.:

Client Sample ID: 5950 Lab Sample ID: 200-66049-7

Matrix: Air Lab File ID: 53615-24.D

Analysis Method: TO-15 Date Collected: 12/08/2022 00:00

Sample wt/vol: 200(mL) Date Analyzed: 12/10/2022 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 186533 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20221209-53615.b\53615-24.D
Lims ID: 200-66049-A-7
Client ID: 5950
Sample Type: Client
Inject. Date: 10-Dec-2022 03:47:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0053615-024
Misc. Info.: 006-4
Operator ID: vtp Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20221209-53615.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 12-Dec-2022 10:29:20 Calib Date: 23-Nov-2022 00:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20221122-53429.b\53429-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: bunmaa Date: 12-Dec-2022 10:29:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.349				ND	7
	3 Dichlorodifluoromethane	85		4.445				ND	7
	4 Chlorodifluoromethane	51		4.482				ND	7
	5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.798				ND	7
	6 Chloromethane	50		4.910				ND	7
	7 Vinyl chloride	62		5.215				ND	
	8 Butane	43		5.226				ND	7
	9 Butadiene	54		5.333				ND	7
	10 Bromomethane	94		6.023				ND	
	12 Chloroethane	64		6.290				ND	
	14 Vinyl bromide	106		6.702				ND	
	15 Trichlorofluoromethane	101		6.863				ND	
	17 Ethanol	45	7.296	7.216	0.080	98	5959	0.2017	
	20 1,1-Dichloroethene	96		7.901				ND	7
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.938				ND	7
	22 Acetone	43		7.981				ND	7
	23 Isopropyl alcohol	45		8.291				ND	7
	24 Carbon disulfide	76		8.318				ND	
	27 3-Chloro-1-propene	41		8.580				ND	7
	28 Methylene Chloride	49		8.799				ND	MU
	29 2-Methyl-2-propanol	59		9.094				ND	
	32 trans-1,2-Dichloroethene	61		9.308				ND	
	31 Methyl tert-butyl ether	73		9.345				ND	7
S	33 1,2-Dichloroethene, Total	61		9.665				ND	7
	34 Hexane	57		9.816				ND	
	36 1,1-Dichloroethane	63		10.057				ND	
	35 Vinyl acetate	43		10.067				ND	
	37 2-Butanone (MEK)	72		11.014				ND	
	38 cis-1,2-Dichloroethene	96		11.030				ND	7
	39 Ethyl acetate	88		11.105				ND	
*	40 Chlorobromomethane	128	11.442	11.442	0.000	86	317279	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		11.522				ND	
	42 Chloroform	83		11.613				ND	
	43 1,1,1-Trichloroethane	97		11.934				ND	
	44 Cyclohexane	84		12.090				ND	
	45 Carbon tetrachloride	117		12.218				ND	
	46 Benzene	78		12.550				ND	7
	47 1,2-Dichloroethane	62		12.619				ND	
	48 Isooctane	57		12.780				ND	
	49 n-Heptane	43		13.085				ND	7
*	50 1,4-Difluorobenzene	114	13.277	13.277	0.000	94	1631209	10.0	
	52 Trichloroethene	95		13.716				ND	
	55 1,2-Dichloropropane	63		14.165				ND	
	56 Methyl methacrylate	69		14.251				ND	
	58 Dibromomethane	174		14.320				ND	
	57 1,4-Dioxane	88		14.336				ND	
	59 Dichlorobromomethane	83		14.625				ND	
	60 cis-1,3-Dichloropropene	75		15.422				ND	
	62 4-Methyl-2-pentanone (MIBK)	43		15.711				ND	
	63 Toluene	92		16.070				ND	
	67 trans-1,3-Dichloropropene	75		16.466				ND	
	68 1,1,2-Trichloroethane	83		16.845				ND	
	69 Tetrachloroethene	166		17.065				ND	7
	70 2-Hexanone	43		17.386				ND	
	71 Chlorodibromomethane	129		17.589				ND	
	72 Ethylene Dibromide	107		17.830				ND	
*	73 Chlorobenzene-d5	117	18.734	18.734	0.000	87	1399853	10.0	
	74 Chlorobenzene	112		18.793				ND	
	75 Ethylbenzene	91		18.991				ND	7
	76 m-Xylene & p-Xylene	106		19.253				ND	MU
S	78 Xylenes, Total	106		19.600				ND	7
	79 o-Xylene	106		20.018				ND	
	80 Styrene	104		20.055				ND	
	81 Bromoform	173		20.408				ND	
	82 Isopropylbenzene	105		20.724				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.227				ND	7
	85 N-Propylbenzene	91		21.441				ND	
	86 2-Chlorotoluene	91		21.591				ND	
	87 4-Ethyltoluene	105		21.639				ND	
	88 1,3,5-Trimethylbenzene	105		21.735				ND	
	91 tert-Butylbenzene	119		22.217				ND	
	92 1,2,4-Trimethylbenzene	105		22.307				ND	7
	93 sec-Butylbenzene	105		22.543				ND	7
	94 1,3-Dichlorobenzene	146		22.719				ND	7
	95 4-Isopropyltoluene	119		22.762				ND	7
	96 1,4-Dichlorobenzene	146		22.864				ND	7
	97 Benzyl chloride	91		23.003				ND	
	98 n-Butylbenzene	91		23.313				ND	
	99 1,2-Dichlorobenzene	146		23.345				ND	
	102 1,2,4-Trichlorobenzene	180		25.763				ND	
	103 Hexachlorobutadiene	225		26.009				ND	
	104 Naphthalene	128		26.234				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15XISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

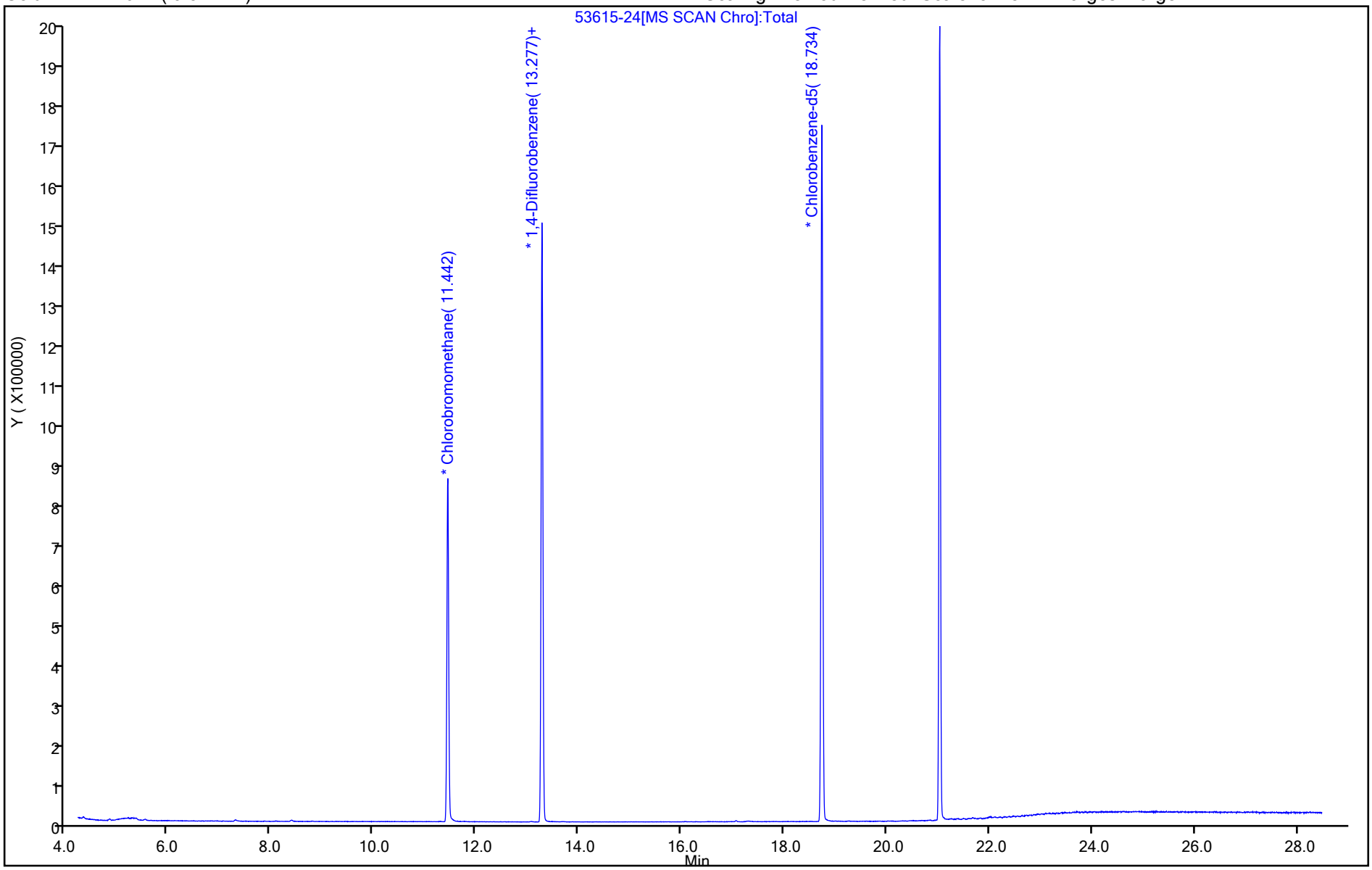
Report Date: 12-Dec-2022 10:29:20 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20221209-53615.b\53615-24.D

Injection Date:	10-Dec-2022 03:47:30	Instrument ID:	CHX.i	Operator ID:	vtp
Lims ID:	200-66049-A-7	Lab Sample ID:	200-66049-7	Worklist Smp#:	24
Client ID:	5950				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



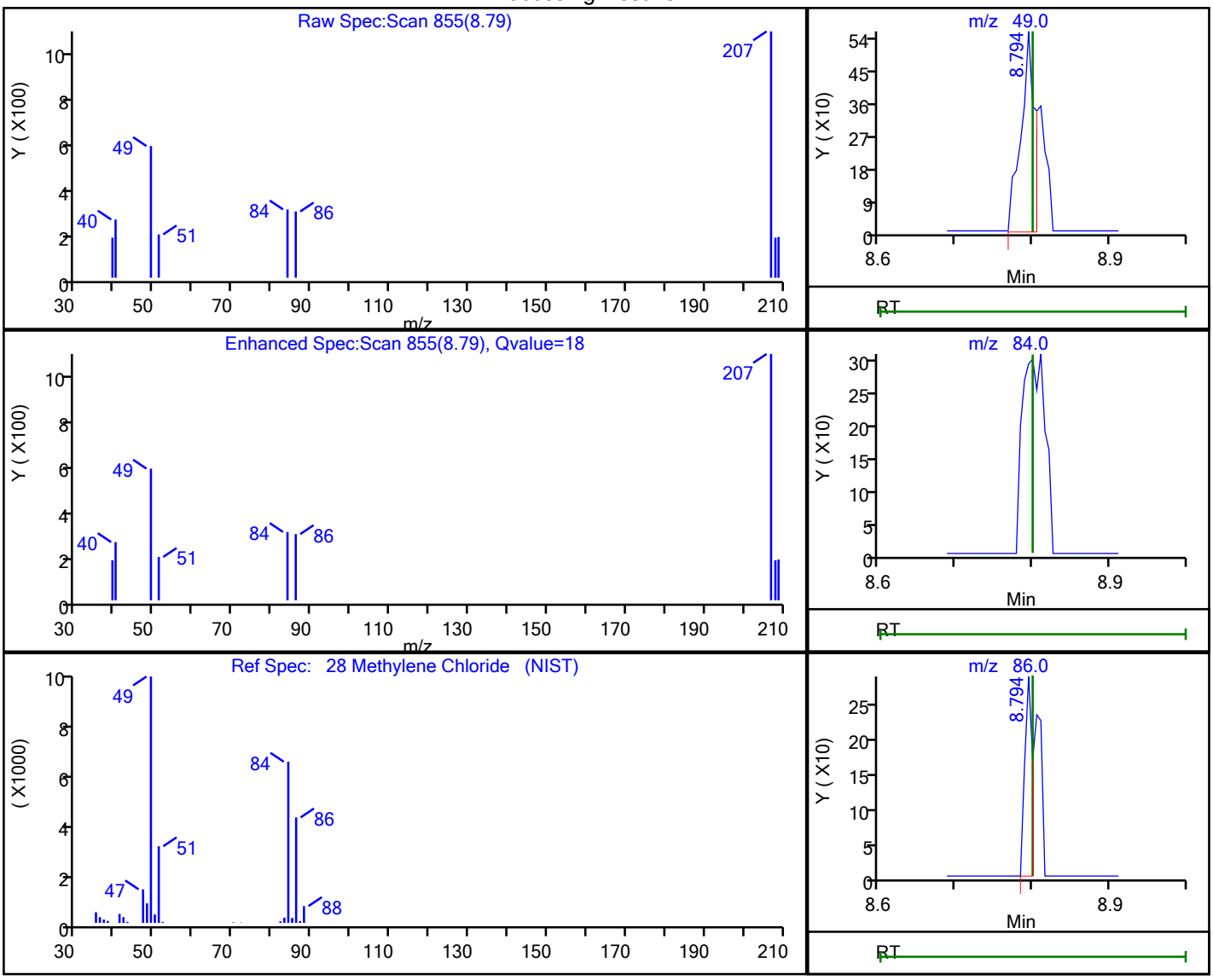
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221209-53615.b\53615-24.D				
Injection Date:	10-Dec-2022 03:47:30	Instrument ID:	CHX.i		
Lims ID:	200-66049-A-7	Lab Sample ID:	200-66049-7		
Client ID:	5950				
Operator ID:	vtp	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

28 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
8.79	49.00	695	0.012723
8.80	84.00	0	
8.79	86.00	193	

Reviewer: bunmaa, 12-Dec-2022 10:27:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

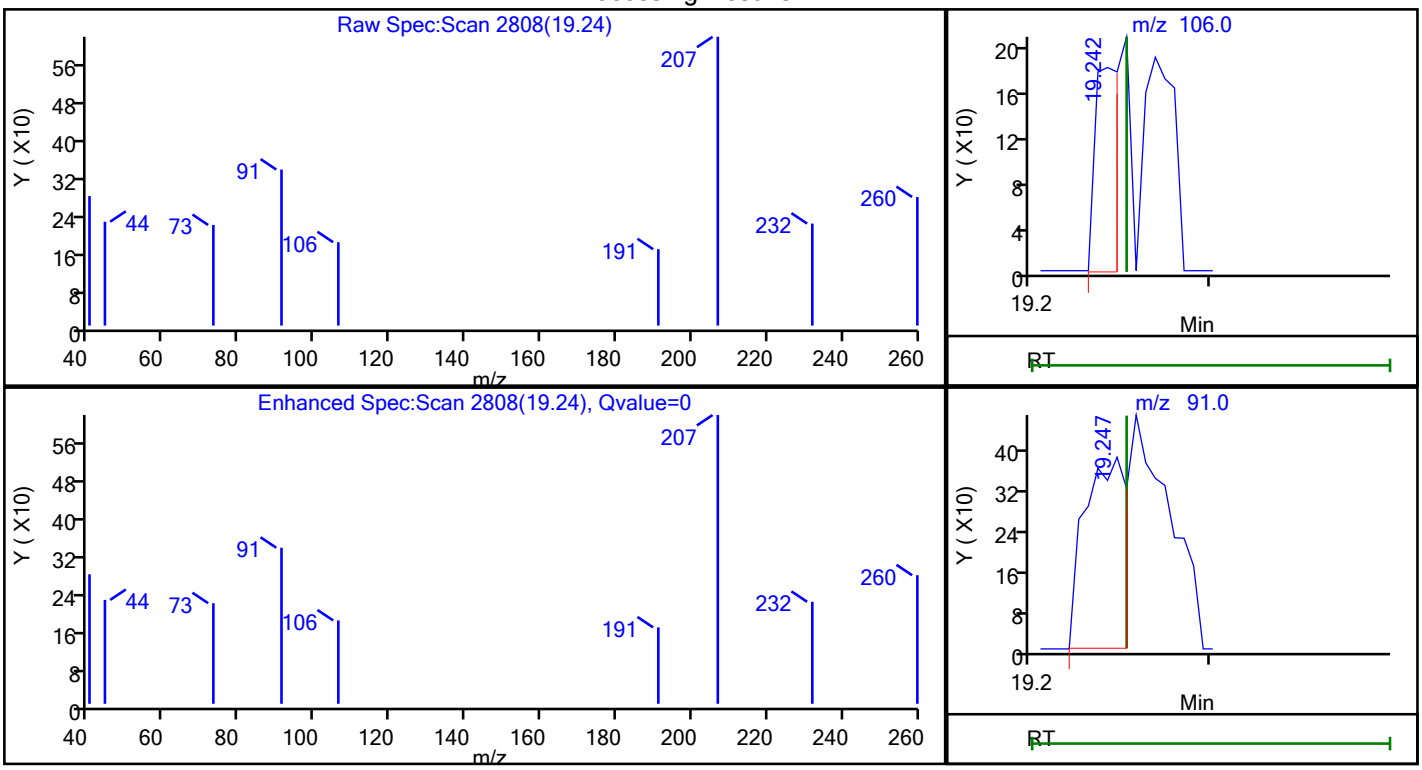
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20221209-53615.b\53615-24.D				
Injection Date:	10-Dec-2022 03:47:30	Instrument ID:	CHX.i		
Lims ID:	200-66049-A-7	Lab Sample ID:	200-66049-7		
Client ID:	5950				
Operator ID:	vtp	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

76 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
19.24	106.00	170	0.001623
19.25	91.00	621	

Reviewer: bunmaa, 12-Dec-2022 10:28:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job No.: 200-66284-1
SDG No.: 200-66284-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-66284-1	1	-7.6	0.75	0.75	39.8	3.71	3.71		4.97	4.97	G31	12/30/22 12:08	CRC
200-66284-1	1	0.0	1.00	1.00	14.9	2.01	2.01		2.01	10.01	G31	12/30/22 12:08	CRC
200-66284-2	1	-8.2	0.73	0.73	29.8	3.03	3.03		4.17	4.17	G31	12/30/22 13:05	CRC
200-66284-2	1	0.0	1.00	1.00	8	1.54	1.54		1.54	6.44	G31	12/30/22 13:06	CRC
200-66284-3	1	-7.0	0.77	0.77	29.9	3.03	3.03		3.96	3.96	G31	12/30/22 13:17	CRC
200-66284-4	1	-4.8	0.84	0.84	46.7	4.18	4.18		4.97	4.98	G31	12/30/22 13:42	CRC

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

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ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Davern
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

Generated 5/22/2023 12:40:07 PM

JOB DESCRIPTION

Crosman Vapor
SDG NUMBER 200-68221-1

JOB NUMBER

200-68221-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

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5/22/2023 12:40:07 PM

Authorized for release by
Elizabeth Nye, Project Manager I
Elizabeth.Nye@et.eurofinsus.com
(802)923-1029

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 200-68221-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Crosman Vapor

Report Number: 200-68221-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 05/12/2023; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SDS-1-051123, SDS-2-051123, Combined Influent-051123, Pre-VPGAC4-051123, Post-Dilution Eff-051123 and Post-Blower Eff-051123 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 05/18/2023.

Toluene was detected in method blank MB 200-191594/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples SDS-1-051123[132X], SDS-1-051123[25X], SDS-2-051123[100.2X], SDS-2-051123[20.1X], Combined Influent-051123[107.7X], Combined Influent-051123[21.1X], Pre-VPGAC4-051123[115.2X], Pre-VPGAC4-051123[23X], Post-Dilution Eff-051123[10X] and Post-Blower Eff-051123[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: SDS-1-051123 — Lab Sample ID: 200-68221-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2	J	5.0	1.1	ppb v/v	25		TO-15	Total/NA
Toluene	1.7	J B	5.0	1.1	ppb v/v	25		TO-15	Total/NA
Tetrachloroethene	2.0	J	5.0	0.53	ppb v/v	25		TO-15	Total/NA
Trichloroethene - DL	1400	D	4.6	3.3	ppb v/v	132		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.9	J	16	3.5	ug/m3	25		TO-15	Total/NA
Toluene	6.4	J B	19	4.0	ug/m3	25		TO-15	Total/NA
Tetrachloroethene	13	J	34	3.6	ug/m3	25		TO-15	Total/NA
Trichloroethene - DL	7600	D	25	18	ug/m3	132		TO-15	Total/NA

Client Sample ID: SDS-2-051123 — Lab Sample ID: 200-68221-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45		1.0	0.42	ppb v/v	20.1		TO-15	Total/NA
1,2-Dichloroethene, Total	45		8.0	0.42	ppb v/v	20.1		TO-15	Total/NA
Toluene	1.4	J B	4.0	0.84	ppb v/v	20.1		TO-15	Total/NA
Tetrachloroethene	2.2	J	4.0	0.42	ppb v/v	20.1		TO-15	Total/NA
Xylene, o-	1.1	J	4.0	1.0	ppb v/v	20.1		TO-15	Total/NA
Trichloroethene - DL	1300	D	3.5	2.5	ppb v/v	100.2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		4.0	1.7	ug/m3	20.1		TO-15	Total/NA
1,2-Dichloroethene, Total	180		32	1.7	ug/m3	20.1		TO-15	Total/NA
Toluene	5.3	J B	15	3.2	ug/m3	20.1		TO-15	Total/NA
Tetrachloroethene	15	J	27	2.9	ug/m3	20.1		TO-15	Total/NA
Xylene, o-	4.6	J	17	4.5	ug/m3	20.1		TO-15	Total/NA
Trichloroethene - DL	7100	D	19	13	ug/m3	100.2		TO-15	Total/NA

Client Sample ID: Combined Influent-051123 — Lab Sample ID: 200-68221-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	36	J	110	34	ppb v/v	21.1		TO-15	Total/NA
cis-1,2-Dichloroethene	35		1.1	0.44	ppb v/v	21.1		TO-15	Total/NA
1,2-Dichloroethene, Total	35		8.4	0.44	ppb v/v	21.1		TO-15	Total/NA
Toluene	1.4	J B	4.2	0.89	ppb v/v	21.1		TO-15	Total/NA
Tetrachloroethene	2.5	J	4.2	0.44	ppb v/v	21.1		TO-15	Total/NA
Trichloroethene - DL	1800	D	3.8	2.7	ppb v/v	107.7		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	85	J	250	80	ug/m3	21.1		TO-15	Total/NA
cis-1,2-Dichloroethene	140		4.2	1.8	ug/m3	21.1		TO-15	Total/NA
1,2-Dichloroethene, Total	140		33	1.8	ug/m3	21.1		TO-15	Total/NA
Toluene	5.3	J B	16	3.3	ug/m3	21.1		TO-15	Total/NA
Tetrachloroethene	17	J	29	3.0	ug/m3	21.1		TO-15	Total/NA
Trichloroethene - DL	9500	D	20	14	ug/m3	107.7		TO-15	Total/NA

Client Sample ID: Pre-VPGAC4-051123 — Lab Sample ID: 200-68221-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.2	0.48	ppb v/v	23		TO-15	Total/NA
1,2-Dichloroethene, Total	23		9.2	0.48	ppb v/v	23		TO-15	Total/NA
Trichloroethene - DL	1500	D	4.0	2.9	ppb v/v	115.2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pre-VPGAC4-051123 (Continued) — Lab Sample ID: 200-68221-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	89		4.6	1.9	ug/m3	23		TO-15	Total/NA
1,2-Dichloroethene, Total	91		36	1.9	ug/m3	23		TO-15	Total/NA
Trichloroethene - DL	7900	D	22	15	ug/m3	115.2		TO-15	Total/NA

Client Sample ID: Post-Dilution Eff-051123 — Lab Sample ID: 200-68221-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		0.50	0.21	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	25		4.0	0.21	ppb v/v	10		TO-15	Total/NA
Trichloroethene	54		0.35	0.25	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		2.0	0.83	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	99		16	0.83	ug/m3	10		TO-15	Total/NA
Trichloroethene	290		1.9	1.3	ug/m3	10		TO-15	Total/NA

Client Sample ID: Post-Blower Eff-051123 — Lab Sample ID: 200-68221-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36		0.50	0.21	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	36		4.0	0.21	ppb v/v	10		TO-15	Total/NA
Trichloroethene	75		0.35	0.25	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	0.83	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	140		16	0.83	ug/m3	10		TO-15	Total/NA
Trichloroethene	410		1.9	1.3	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: SDS-1-051123
Date Collected: 05/11/23 11:30
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-68221-1
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.53	ppb v/v			05/18/23 13:26	25
1,1-Dichloroethene	0.88	U	0.88	0.65	ppb v/v			05/18/23 13:26	25
Acetone	130	U	130	40	ppb v/v			05/18/23 13:26	25
Methylene Chloride	13	U	13	4.5	ppb v/v			05/18/23 13:26	25
trans-1,2-Dichloroethene	5.0	U	5.0	0.58	ppb v/v			05/18/23 13:26	25
1,1-Dichloroethane	5.0	U	5.0	0.63	ppb v/v			05/18/23 13:26	25
cis-1,2-Dichloroethene	1.3	U	1.3	0.53	ppb v/v			05/18/23 13:26	25
1,2-Dichloroethene, Total	10	U	10	0.53	ppb v/v			05/18/23 13:26	25
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ppb v/v			05/18/23 13:26	25
Carbon tetrachloride	0.88	U	0.88	0.55	ppb v/v			05/18/23 13:26	25
Benzene	**1.2**	**J**	5.0	1.1	ppb v/v			05/18/23 13:26	25
Toluene	**1.7**	**J B**	5.0	1.1	ppb v/v			05/18/23 13:26	25
Tetrachloroethene	**2.0**	**J**	5.0	0.53	ppb v/v			05/18/23 13:26	25
Chlorobenzene	5.0	U	5.0	1.1	ppb v/v			05/18/23 13:26	25
m,p-Xylene	13	U	13	2.4	ppb v/v			05/18/23 13:26	25
Xylene, o-	5.0	U	5.0	1.3	ppb v/v			05/18/23 13:26	25
Bromoform	5.0	U	5.0	3.0	ppb v/v			05/18/23 13:26	25
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ppb v/v			05/18/23 13:26	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	1.3	ug/m3			05/18/23 13:26	25
1,1-Dichloroethene	3.5	U	3.5	2.6	ug/m3			05/18/23 13:26	25
Acetone	300	U	300	95	ug/m3			05/18/23 13:26	25
Methylene Chloride	43	U	43	16	ug/m3			05/18/23 13:26	25
trans-1,2-Dichloroethene	20	U	20	2.3	ug/m3			05/18/23 13:26	25
1,1-Dichloroethane	20	U	20	2.5	ug/m3			05/18/23 13:26	25
cis-1,2-Dichloroethene	5.0	U	5.0	2.1	ug/m3			05/18/23 13:26	25
1,2-Dichloroethene, Total	40	U	40	2.1	ug/m3			05/18/23 13:26	25
1,1,1-Trichloroethane	27	U	27	6.0	ug/m3			05/18/23 13:26	25
Carbon tetrachloride	5.5	U	5.5	3.5	ug/m3			05/18/23 13:26	25
Benzene	**3.9**	**J**	16	3.5	ug/m3			05/18/23 13:26	25
Toluene	**6.4**	**J B**	19	4.0	ug/m3			05/18/23 13:26	25
Tetrachloroethene	**13**	**J**	34	3.6	ug/m3			05/18/23 13:26	25
Chlorobenzene	23	U	23	5.1	ug/m3			05/18/23 13:26	25
m,p-Xylene	54	U	54	10	ug/m3			05/18/23 13:26	25
Xylene, o-	22	U	22	5.6	ug/m3			05/18/23 13:26	25
Bromoform	52	U	52	31	ug/m3			05/18/23 13:26	25
1,1,2,2-Tetrachloroethane	34	U	34	7.4	ug/m3			05/18/23 13:26	25

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1400**	**D**	4.6	3.3	ppb v/v			05/18/23 14:18	132

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**7600**	**D**	25	18	ug/m3			05/18/23 14:18	132

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: SDS-2-051123
Date Collected: 05/11/23 11:35
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-68221-2
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.6	U	1.6	0.42	ppb v/v			05/18/23 15:11	20.1
1,1-Dichloroethene	0.70	U	0.70	0.52	ppb v/v			05/18/23 15:11	20.1
Acetone	100	U	100	32	ppb v/v			05/18/23 15:11	20.1
Methylene Chloride	10	U	10	3.6	ppb v/v			05/18/23 15:11	20.1
trans-1,2-Dichloroethene	4.0	U	4.0	0.46	ppb v/v			05/18/23 15:11	20.1
1,1-Dichloroethane	4.0	U	4.0	0.50	ppb v/v			05/18/23 15:11	20.1
cis-1,2-Dichloroethene	**45**		1.0	0.42	ppb v/v			05/18/23 15:11	20.1
1,2-Dichloroethene, Total	**45**		8.0	0.42	ppb v/v			05/18/23 15:11	20.1
1,1,1-Trichloroethane	4.0	U	4.0	0.88	ppb v/v			05/18/23 15:11	20.1
Carbon tetrachloride	0.70	U	0.70	0.44	ppb v/v			05/18/23 15:11	20.1
Benzene	4.0	U	4.0	0.88	ppb v/v			05/18/23 15:11	20.1
Toluene	**1.4**	**J B**	4.0	0.84	ppb v/v			05/18/23 15:11	20.1
Tetrachloroethene	**2.2**	**J**	4.0	0.42	ppb v/v			05/18/23 15:11	20.1
Chlorobenzene	4.0	U	4.0	0.88	ppb v/v			05/18/23 15:11	20.1
m,p-Xylene	10	U	10	1.9	ppb v/v			05/18/23 15:11	20.1
Xylene, o-	**1.1**	**J**	4.0	1.0	ppb v/v			05/18/23 15:11	20.1
Bromoform	4.0	U	4.0	2.4	ppb v/v			05/18/23 15:11	20.1
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.86	ppb v/v			05/18/23 15:11	20.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.0	U	4.0	1.1	ug/m3			05/18/23 15:11	20.1
1,1-Dichloroethene	2.8	U	2.8	2.1	ug/m3			05/18/23 15:11	20.1
Acetone	240	U	240	76	ug/m3			05/18/23 15:11	20.1
Methylene Chloride	35	U	35	13	ug/m3			05/18/23 15:11	20.1
trans-1,2-Dichloroethene	16	U	16	1.8	ug/m3			05/18/23 15:11	20.1
1,1-Dichloroethane	16	U	16	2.0	ug/m3			05/18/23 15:11	20.1
cis-1,2-Dichloroethene	**180**		4.0	1.7	ug/m3			05/18/23 15:11	20.1
1,2-Dichloroethene, Total	**180**		32	1.7	ug/m3			05/18/23 15:11	20.1
1,1,1-Trichloroethane	22	U	22	4.8	ug/m3			05/18/23 15:11	20.1
Carbon tetrachloride	4.4	U	4.4	2.8	ug/m3			05/18/23 15:11	20.1
Benzene	13	U	13	2.8	ug/m3			05/18/23 15:11	20.1
Toluene	**5.3**	**J B**	15	3.2	ug/m3			05/18/23 15:11	20.1
Tetrachloroethene	**15**	**J**	27	2.9	ug/m3			05/18/23 15:11	20.1
Chlorobenzene	19	U	19	4.1	ug/m3			05/18/23 15:11	20.1
m,p-Xylene	44	U	44	8.3	ug/m3			05/18/23 15:11	20.1
Xylene, o-	**4.6**	**J**	17	4.5	ug/m3			05/18/23 15:11	20.1
Bromoform	42	U	42	25	ug/m3			05/18/23 15:11	20.1
1,1,2,2-Tetrachloroethane	28	U	28	5.9	ug/m3			05/18/23 15:11	20.1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1300**	**D**	3.5	2.5	ppb v/v			05/18/23 16:04	100.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**7100**	**D**	19	13	ug/m3			05/18/23 16:04	100.2

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: Combined Influent-051123
Date Collected: 05/11/23 11:40
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Lab Sample ID: 200-68221-3
Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.6	U	1.6	0.44	ppb v/v			05/18/23 16:57	21.1
1,1-Dichloroethene	0.74	U	0.74	0.55	ppb v/v			05/18/23 16:57	21.1
Acetone	**36**	**J**	110	34	ppb v/v			05/18/23 16:57	21.1
Methylene Chloride	11	U	11	3.8	ppb v/v			05/18/23 16:57	21.1
trans-1,2-Dichloroethene	4.2	U	4.2	0.49	ppb v/v			05/18/23 16:57	21.1
1,1-Dichloroethane	4.2	U	4.2	0.53	ppb v/v			05/18/23 16:57	21.1
cis-1,2-Dichloroethene	**35**		1.1	0.44	ppb v/v			05/18/23 16:57	21.1
1,2-Dichloroethene, Total	**35**		8.4	0.44	ppb v/v			05/18/23 16:57	21.1
1,1,1-Trichloroethane	4.2	U	4.2	0.93	ppb v/v			05/18/23 16:57	21.1
Carbon tetrachloride	0.74	U	0.74	0.46	ppb v/v			05/18/23 16:57	21.1
Benzene	4.2	U	4.2	0.93	ppb v/v			05/18/23 16:57	21.1
Toluene	**1.4**	**J B**	4.2	0.89	ppb v/v			05/18/23 16:57	21.1
Tetrachloroethene	**2.5**	**J**	4.2	0.44	ppb v/v			05/18/23 16:57	21.1
Chlorobenzene	4.2	U	4.2	0.93	ppb v/v			05/18/23 16:57	21.1
m,p-Xylene	11	U	11	2.0	ppb v/v			05/18/23 16:57	21.1
Xylene, o-	4.2	U	4.2	1.1	ppb v/v			05/18/23 16:57	21.1
Bromoform	4.2	U	4.2	2.5	ppb v/v			05/18/23 16:57	21.1
1,1,2,2-Tetrachloroethane	4.2	U	4.2	0.91	ppb v/v			05/18/23 16:57	21.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.2	U	4.2	1.1	ug/m3			05/18/23 16:57	21.1
1,1-Dichloroethene	2.9	U	2.9	2.2	ug/m3			05/18/23 16:57	21.1
Acetone	**85**	**J**	250	80	ug/m3			05/18/23 16:57	21.1
Methylene Chloride	37	U	37	13	ug/m3			05/18/23 16:57	21.1
trans-1,2-Dichloroethene	17	U	17	1.9	ug/m3			05/18/23 16:57	21.1
1,1-Dichloroethane	17	U	17	2.1	ug/m3			05/18/23 16:57	21.1
cis-1,2-Dichloroethene	**140**		4.2	1.8	ug/m3			05/18/23 16:57	21.1
1,2-Dichloroethene, Total	**140**		33	1.8	ug/m3			05/18/23 16:57	21.1
1,1,1-Trichloroethane	23	U	23	5.1	ug/m3			05/18/23 16:57	21.1
Carbon tetrachloride	4.6	U	4.6	2.9	ug/m3			05/18/23 16:57	21.1
Benzene	13	U	13	3.0	ug/m3			05/18/23 16:57	21.1
Toluene	**5.3**	**J B**	16	3.3	ug/m3			05/18/23 16:57	21.1
Tetrachloroethene	**17**	**J**	29	3.0	ug/m3			05/18/23 16:57	21.1
Chlorobenzene	19	U	19	4.3	ug/m3			05/18/23 16:57	21.1
m,p-Xylene	46	U	46	8.7	ug/m3			05/18/23 16:57	21.1
Xylene, o-	18	U	18	4.8	ug/m3			05/18/23 16:57	21.1
Bromoform	44	U	44	26	ug/m3			05/18/23 16:57	21.1
1,1,2,2-Tetrachloroethane	29	U	29	6.2	ug/m3			05/18/23 16:57	21.1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1800**	**D**	3.8	2.7	ppb v/v			05/18/23 17:49	107.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**9500**	**D**	20	14	ug/m3			05/18/23 17:49	107.7

Client Sample ID: Pre-VPGAC4-051123

Lab Sample ID: 200-68221-4

Date Collected: 05/11/23 11:45
Matrix: Air
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.8	U	1.8	0.48	ppb v/v			05/18/23 18:42	23
1,1-Dichloroethene	0.81	U	0.81	0.60	ppb v/v			05/18/23 18:42	23
Acetone	120	U	120	37	ppb v/v			05/18/23 18:42	23
Methylene Chloride	12	U	12	4.1	ppb v/v			05/18/23 18:42	23
trans-1,2-Dichloroethene	4.6	U	4.6	0.53	ppb v/v			05/18/23 18:42	23
1,1-Dichloroethane	4.6	U	4.6	0.58	ppb v/v			05/18/23 18:42	23
cis-1,2-Dichloroethene	**23**		1.2	0.48	ppb v/v			05/18/23 18:42	23
1,2-Dichloroethene, Total	**23**		9.2	0.48	ppb v/v			05/18/23 18:42	23
1,1,1-Trichloroethane	4.6	U	4.6	1.0	ppb v/v			05/18/23 18:42	23
Carbon tetrachloride	0.81	U	0.81	0.51	ppb v/v			05/18/23 18:42	23
Benzene	4.6	U	4.6	1.0	ppb v/v			05/18/23 18:42	23
Toluene	4.6	U	4.6	0.97	ppb v/v			05/18/23 18:42	23
Tetrachloroethene	4.6	U	4.6	0.48	ppb v/v			05/18/23 18:42	23
Chlorobenzene	4.6	U	4.6	1.0	ppb v/v			05/18/23 18:42	23
m,p-Xylene	12	U	12	2.2	ppb v/v			05/18/23 18:42	23
Xylene, o-	4.6	U	4.6	1.2	ppb v/v			05/18/23 18:42	23
Bromoform	4.6	U	4.6	2.8	ppb v/v			05/18/23 18:42	23
1,1,2,2-Tetrachloroethane	4.6	U	4.6	0.99	ppb v/v			05/18/23 18:42	23

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.6	U	4.6	1.2	ug/m3			05/18/23 18:42	23
1,1-Dichloroethene	3.2	U	3.2	2.4	ug/m3			05/18/23 18:42	23
Acetone	270	U	270	87	ug/m3			05/18/23 18:42	23
Methylene Chloride	40	U	40	14	ug/m3			05/18/23 18:42	23
trans-1,2-Dichloroethene	18	U	18	2.1	ug/m3			05/18/23 18:42	23
1,1-Dichloroethane	19	U	19	2.3	ug/m3			05/18/23 18:42	23
cis-1,2-Dichloroethene	**89**		4.6	1.9	ug/m3			05/18/23 18:42	23
1,2-Dichloroethene, Total	**91**		36	1.9	ug/m3			05/18/23 18:42	23
1,1,1-Trichloroethane	25	U	25	5.5	ug/m3			05/18/23 18:42	23
Carbon tetrachloride	5.1	U	5.1	3.2	ug/m3			05/18/23 18:42	23
Benzene	15	U	15	3.2	ug/m3			05/18/23 18:42	23
Toluene	17	U	17	3.6	ug/m3			05/18/23 18:42	23
Tetrachloroethene	31	U	31	3.3	ug/m3			05/18/23 18:42	23
Chlorobenzene	21	U	21	4.7	ug/m3			05/18/23 18:42	23
m,p-Xylene	50	U	50	9.5	ug/m3			05/18/23 18:42	23
Xylene, o-	20	U	20	5.2	ug/m3			05/18/23 18:42	23
Bromoform	48	U	48	29	ug/m3			05/18/23 18:42	23
1,1,2,2-Tetrachloroethane	32	U	32	6.8	ug/m3			05/18/23 18:42	23

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1500**	**D**	4.0	2.9	ppb v/v			05/18/23 19:34	115.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**7900**	**D**	22	15	ug/m3			05/18/23 19:34	115.2

Client Sample ID: Post-Dilution Eff-051123

Lab Sample ID: 200-68221-5

Date Collected: 05/11/23 11:50
Matrix: Air
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.21	ppb v/v			05/18/23 20:27	10
1,1-Dichloroethene	0.35	U	0.35	0.26	ppb v/v			05/18/23 20:27	10
Acetone	50	U	50	16	ppb v/v			05/18/23 20:27	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			05/18/23 20:27	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/18/23 20:27	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/18/23 20:27	10
cis-1,2-Dichloroethene	**25**		0.50	0.21	ppb v/v			05/18/23 20:27	10
1,2-Dichloroethene, Total	**25**		4.0	0.21	ppb v/v			05/18/23 20:27	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/18/23 20:27	10
Carbon tetrachloride	0.35	U	0.35	0.22	ppb v/v			05/18/23 20:27	10
Benzene	2.0	U	2.0	0.44	ppb v/v			05/18/23 20:27	10
Trichloroethene	**54**		0.35	0.25	ppb v/v			05/18/23 20:27	10
Toluene	2.0	U	2.0	0.42	ppb v/v			05/18/23 20:27	10
Tetrachloroethene	2.0	U	2.0	0.21	ppb v/v			05/18/23 20:27	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/18/23 20:27	10
m,p-Xylene	5.0	U	5.0	0.95	ppb v/v			05/18/23 20:27	10
Xylene, o-	2.0	U	2.0	0.52	ppb v/v			05/18/23 20:27	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/18/23 20:27	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/18/23 20:27	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.54	ug/m3			05/18/23 20:27	10
1,1-Dichloroethene	1.4	U	1.4	1.0	ug/m3			05/18/23 20:27	10
Acetone	120	U	120	38	ug/m3			05/18/23 20:27	10
Methylene Chloride	17	U	17	6.3	ug/m3			05/18/23 20:27	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/18/23 20:27	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/18/23 20:27	10
cis-1,2-Dichloroethene	**100**		2.0	0.83	ug/m3			05/18/23 20:27	10
1,2-Dichloroethene, Total	**99**		16	0.83	ug/m3			05/18/23 20:27	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/18/23 20:27	10
Carbon tetrachloride	2.2	U	2.2	1.4	ug/m3			05/18/23 20:27	10
Benzene	6.4	U	6.4	1.4	ug/m3			05/18/23 20:27	10
Trichloroethene	**290**		1.9	1.3	ug/m3			05/18/23 20:27	10
Toluene	7.5	U	7.5	1.6	ug/m3			05/18/23 20:27	10
Tetrachloroethene	14	U	14	1.4	ug/m3			05/18/23 20:27	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/18/23 20:27	10
m,p-Xylene	22	U	22	4.1	ug/m3			05/18/23 20:27	10
Xylene, o-	8.7	U	8.7	2.3	ug/m3			05/18/23 20:27	10
Bromoform	21	U	21	12	ug/m3			05/18/23 20:27	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/18/23 20:27	10

Client Sample ID: Post-Blower Eff-051123

Lab Sample ID: 200-68221-6

Date Collected: 05/11/23 11:55
Matrix: Air
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.78	U	0.78	0.21	ppb v/v			05/18/23 21:20	10
1,1-Dichloroethene	0.35	U	0.35	0.26	ppb v/v			05/18/23 21:20	10

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: Post-Blower Eff-051123
Lab Sample ID: 200-68221-6
Date Collected: 05/11/23 11:55
Matrix: Air
Date Received: 05/12/23 10:40
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50	U	50	16	ppb v/v			05/18/23 21:20	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			05/18/23 21:20	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/18/23 21:20	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/18/23 21:20	10
cis-1,2-Dichloroethene	**36**		0.50	0.21	ppb v/v			05/18/23 21:20	10
1,2-Dichloroethene, Total	**36**		4.0	0.21	ppb v/v			05/18/23 21:20	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/18/23 21:20	10
Carbon tetrachloride	0.35	U	0.35	0.22	ppb v/v			05/18/23 21:20	10
Benzene	2.0	U	2.0	0.44	ppb v/v			05/18/23 21:20	10
Trichloroethene	**75**		0.35	0.25	ppb v/v			05/18/23 21:20	10
Toluene	2.0	U	2.0	0.42	ppb v/v			05/18/23 21:20	10
Tetrachloroethene	2.0	U	2.0	0.21	ppb v/v			05/18/23 21:20	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/18/23 21:20	10
m,p-Xylene	5.0	U	5.0	0.95	ppb v/v			05/18/23 21:20	10
Xylene, o-	2.0	U	2.0	0.52	ppb v/v			05/18/23 21:20	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/18/23 21:20	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/18/23 21:20	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.54	ug/m3			05/18/23 21:20	10
1,1-Dichloroethene	1.4	U	1.4	1.0	ug/m3			05/18/23 21:20	10
Acetone	120	U	120	38	ug/m3			05/18/23 21:20	10
Methylene Chloride	17	U	17	6.3	ug/m3			05/18/23 21:20	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/18/23 21:20	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/18/23 21:20	10
cis-1,2-Dichloroethene	**140**		2.0	0.83	ug/m3			05/18/23 21:20	10
1,2-Dichloroethene, Total	**140**		16	0.83	ug/m3			05/18/23 21:20	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/18/23 21:20	10
Carbon tetrachloride	2.2	U	2.2	1.4	ug/m3			05/18/23 21:20	10
Benzene	6.4	U	6.4	1.4	ug/m3			05/18/23 21:20	10
Trichloroethene	**410**		1.9	1.3	ug/m3			05/18/23 21:20	10
Toluene	7.5	U	7.5	1.6	ug/m3			05/18/23 21:20	10
Tetrachloroethene	14	U	14	1.4	ug/m3			05/18/23 21:20	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/18/23 21:20	10
m,p-Xylene	22	U	22	4.1	ug/m3			05/18/23 21:20	10
Xylene, o-	8.7	U	8.7	2.3	ug/m3			05/18/23 21:20	10
Bromoform	21	U	21	12	ug/m3			05/18/23 21:20	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/18/23 21:20	10

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-191594/5
Matrix: Air
Analysis Batch: 191594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.078	U	0.078	0.021	ppb v/v			05/18/23 10:46	1
1,1-Dichloroethene	0.035	U	0.035	0.026	ppb v/v			05/18/23 10:46	1
Acetone	5.0	U	5.0	1.6	ppb v/v			05/18/23 10:46	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			05/18/23 10:46	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.023	ppb v/v			05/18/23 10:46	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/18/23 10:46	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.021	ppb v/v			05/18/23 10:46	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.021	ppb v/v			05/18/23 10:46	1
1,1,1-Trichloroethane	0.20	U	0.20	0.044	ppb v/v			05/18/23 10:46	1
Carbon tetrachloride	0.035	U	0.035	0.022	ppb v/v			05/18/23 10:46	1
Benzene	0.20	U	0.20	0.044	ppb v/v			05/18/23 10:46	1
Trichloroethene	0.035	U	0.035	0.025	ppb v/v			05/18/23 10:46	1
Toluene	0.0550	J	0.20	0.042	ppb v/v			05/18/23 10:46	1
Tetrachloroethene	0.20	U	0.20	0.021	ppb v/v			05/18/23 10:46	1
Chlorobenzene	0.20	U	0.20	0.044	ppb v/v			05/18/23 10:46	1
m,p-Xylene	0.50	U	0.50	0.095	ppb v/v			05/18/23 10:46	1
Xylene, o-	0.20	U	0.20	0.052	ppb v/v			05/18/23 10:46	1
Bromoform	0.20	U	0.20	0.12	ppb v/v			05/18/23 10:46	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			05/18/23 10:46	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.054	ug/m3			05/18/23 10:46	1
1,1-Dichloroethene	0.14	U	0.14	0.10	ug/m3			05/18/23 10:46	1
Acetone	12	U	12	3.8	ug/m3			05/18/23 10:46	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			05/18/23 10:46	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.091	ug/m3			05/18/23 10:46	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/18/23 10:46	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.083	ug/m3			05/18/23 10:46	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.083	ug/m3			05/18/23 10:46	1
1,1,1-Trichloroethane	1.1	U	1.1	0.24	ug/m3			05/18/23 10:46	1
Carbon tetrachloride	0.22	U	0.22	0.14	ug/m3			05/18/23 10:46	1
Benzene	0.64	U	0.64	0.14	ug/m3			05/18/23 10:46	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			05/18/23 10:46	1
Toluene	0.207	J	0.75	0.16	ug/m3			05/18/23 10:46	1
Tetrachloroethene	1.4	U	1.4	0.14	ug/m3			05/18/23 10:46	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			05/18/23 10:46	1
m,p-Xylene	2.2	U	2.2	0.41	ug/m3			05/18/23 10:46	1
Xylene, o-	0.87	U	0.87	0.23	ug/m3			05/18/23 10:46	1
Bromoform	2.1	U	2.1	1.2	ug/m3			05/18/23 10:46	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/18/23 10:46	1

Lab Sample ID: LCS 200-191594/4
Matrix: Air
Analysis Batch: 191594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			10.0	11.8		ppb v/v		118	61 - 135		
1,1-Dichloroethene			10.0	12.0		ppb v/v		120	68 - 120		
Acetone			10.0	12.6		ppb v/v		126	54 - 154		

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-191594/4
Matrix: Air
Analysis Batch: 191594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	10.0	12.1		ppb v/v		121	59 - 137
trans-1,2-Dichloroethene	10.0	12.0		ppb v/v		120	69 - 137
1,1-Dichloroethane	10.0	12.4		ppb v/v		124	66 - 130
cis-1,2-Dichloroethene	10.0	11.6		ppb v/v		116	72 - 121
1,1,1-Trichloroethane	10.0	9.40		ppb v/v		94	72 - 127
Carbon tetrachloride	10.0	10.4		ppb v/v		104	71 - 133
Benzene	10.0	10.3		ppb v/v		103	73 - 119
Trichloroethene	10.0	9.95		ppb v/v		100	73 - 122
Toluene	10.0	10.6		ppb v/v		106	75 - 122
Tetrachloroethene	10.0	9.58		ppb v/v		96	70 - 125
Chlorobenzene	10.0	9.95		ppb v/v		100	76 - 119
m,p-Xylene	20.0	20.7		ppb v/v		104	76 - 121
Xylene, o-	10.0	10.2		ppb v/v		102	73 - 123
Bromoform	10.0	10.4		ppb v/v		104	53 - 149
1,1,2,2-Tetrachloroethane	10.0	10.9		ppb v/v		109	74 - 126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	26	30.1		ug/m3		118	61 - 135
1,1-Dichloroethene	40	47.4		ug/m3		120	68 - 120
Acetone	24	30.0		ug/m3		126	54 - 154
Methylene Chloride	35	42.1		ug/m3		121	59 - 137
trans-1,2-Dichloroethene	40	47.6		ug/m3		120	69 - 137
1,1-Dichloroethane	40	50.0		ug/m3		124	66 - 130
cis-1,2-Dichloroethene	40	46.1		ug/m3		116	72 - 121
1,1,1-Trichloroethane	55	51.3		ug/m3		94	72 - 127
Carbon tetrachloride	63	65.6		ug/m3		104	71 - 133
Benzene	32	33.0		ug/m3		103	73 - 119
Trichloroethene	54	53.5		ug/m3		100	73 - 122
Toluene	38	39.9		ug/m3		106	75 - 122
Tetrachloroethene	68	65.0		ug/m3		96	70 - 125
Chlorobenzene	46	45.8		ug/m3		100	76 - 119
m,p-Xylene	87	90.1		ug/m3		104	76 - 121
Xylene, o-	43	44.5		ug/m3		102	73 - 123
Bromoform	100	107		ug/m3		104	53 - 149
1,1,2,2-Tetrachloroethane	69	74.6		ug/m3		109	74 - 126

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Air - GC/MS VOA

Analysis Batch: 191594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-68221-1	SDS-1-051123	Total/NA	Air	TO-15	
200-68221-1 - DL	SDS-1-051123	Total/NA	Air	TO-15	
200-68221-2	SDS-2-051123	Total/NA	Air	TO-15	
200-68221-2 - DL	SDS-2-051123	Total/NA	Air	TO-15	
200-68221-3	Combined Influent-051123	Total/NA	Air	TO-15	
200-68221-3 - DL	Combined Influent-051123	Total/NA	Air	TO-15	
200-68221-4	Pre-VPGAC4-051123	Total/NA	Air	TO-15	
200-68221-4 - DL	Pre-VPGAC4-051123	Total/NA	Air	TO-15	
200-68221-5	Post-Dilution Eff-051123	Total/NA	Air	TO-15	
200-68221-6	Post-Blower Eff-051123	Total/NA	Air	TO-15	
MB 200-191594/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-191594/4	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Client Sample ID: SDS-1-051123
Lab Sample ID: 200-68221-1
Date Collected: 05/11/23 11:30
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		25	191594	A1B	EET BUR	05/18/23 13:26
Total/NA	Analysis	TO-15	DL	132	191594	A1B	EET BUR	05/18/23 14:18

Client Sample ID: SDS-2-051123
Lab Sample ID: 200-68221-2
Date Collected: 05/11/23 11:35
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		20.1	191594	A1B	EET BUR	05/18/23 15:11
Total/NA	Analysis	TO-15	DL	100.2	191594	A1B	EET BUR	05/18/23 16:04

Client Sample ID: Combined Influent-051123
Lab Sample ID: 200-68221-3
Date Collected: 05/11/23 11:40
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		21.1	191594	A1B	EET BUR	05/18/23 16:57
Total/NA	Analysis	TO-15	DL	107.7	191594	A1B	EET BUR	05/18/23 17:49

Client Sample ID: Pre-VPGAC4-051123
Lab Sample ID: 200-68221-4
Date Collected: 05/11/23 11:45
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		23	191594	A1B	EET BUR	05/18/23 18:42
Total/NA	Analysis	TO-15	DL	115.2	191594	A1B	EET BUR	05/18/23 19:34

Client Sample ID: Post-Dilution Eff-051123
Lab Sample ID: 200-68221-5
Date Collected: 05/11/23 11:50
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191594	A1B	EET BUR	05/18/23 20:27

Client Sample ID: Post-Blower Eff-051123
Lab Sample ID: 200-68221-6
Date Collected: 05/11/23 11:55
Matrix: Air
Date Received: 05/12/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191594	A1B	EET BUR	05/18/23 21:20

Laboratory References:
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job ID: 200-68221-1
SDG: 200-68221-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-68221-1	SDS-1-051123	Air	05/11/23 11:30	05/12/23 10:40	Air Canister (1-Liter) #8440
200-68221-2	SDS-2-051123	Air	05/11/23 11:35	05/12/23 10:40	Air Canister (1-Liter) #6425
200-68221-3	Combined Influent-051123	Air	05/11/23 11:40	05/12/23 10:40	Air Canister (1-Liter) #4650
200-68221-4	Pre-VPGAC4-051123	Air	05/11/23 11:45	05/12/23 10:40	Air Canister (1-Liter) #34000865
200-68221-5	Post-Dilution Eff-051123	Air	05/11/23 11:50	05/12/23 10:40	Air Canister (1-Liter) #5922
200-68221-6	Post-Blower Eff-051123	Air	05/11/23 11:55	05/12/23 10:40	Air Canister (1-Liter) #34002482

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-68221	05/13/23	9:07			G20	JR

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		N o	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		N o	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-68221-A-1	8440	-8.0	N	6071	N/A	Y	5922-55166	GRAB
200-68221-A-2	6425	-6.5	N	6071	N/A	Y	6491-54645	GRAB
200-68221-A-3	4650	-6.5	N	6071	N/A	Y	5922-55166	GRAB
200-68221-A-4	34000865	-8.0	N	6071	N/A	Y	6491-54645	GRAB
200-68221-A-5	5922	-6.7	N	6071	N/A	Y	5922-55166	GRAB
200-68221-A-6	34002482	-2.8	N	6071	N/A	Y	5856-55228	GRAB

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Eurofins TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these sampl

200-68221 Chain of Custody

Client Contact Information	Project Manager: Aaron Richardson	**Samples Collected By:**	1 of 1 COC
Company: Arcadis	Phone: 585-662-4024	Bailey Kudla-Williams	
Address: 100 Chestnut Street Suite 1020	Email: Aaron.Richardson@arcadis.com		
City/State/Zip: Rochester, NY 14604			
Phone: 585-662-4057	Site Contact: Bailey Kudla-Williams		
FAX:	Tel: 805-501-8053		
Project Name: Crosman Corporation	**Analysis Turnaround Time**		
Site/Location: East Bloomfield, NY	Standard (Specify): 10-Day		
PO #: 30005202.12	Rush (Specify)_____		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15 (Standard)	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas or Sub-slab Vapor	Landfill Gas
SDS-1-051123	5/11/2023	-	1130	-30	-7	-	8440	X									X	
SDS-2-051123	5/11/2023	-	1135	-30	-6	-	6425	X									X	
Combined Influent-051123	5/11/2023	-	1140	-30	-6	-	4650	X									X	
Pre-VPGAC4-051123	5/11/2023	-	1145	-30	-8	-	34000865	X									X	
Post-Dilution Eff-051123	5/11/2023	-	1150	-30	-7	-	5922	X									X	
Post-Blower Eff-051123	5/11/2023	-	1155	-30	-2	-	34002482	X									X	

	Temperature (Fahrenheit)			Pressure (inches of Hg)		
	Interior	Ambient			Interior	Ambient
Start	65°F	72°F		Start	—	—
Stop	65°F	72°F		Stop	—	—

Special Instructions/QC Requirements & Comments: Site Specific Analyte List of 16 VOCs

Samples Shipped by: Bailey Kudla-Williams	Date/Time: 05-11-2023 1430	Samples Received by:	5/12/23 10:40
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

Page 22 of 52

5/22/2023


ORIGIN ID:ONHA (805) 501-8053
ARCADIS
STE 1020
100 CHESTNUT ST STE 1020
ROCHESTER, NY 14604
UNITED STATES US
SHIP DATE: 11MAY23
ACTWGT: 18.00 LB
CAD: 6992065/SSFO2420
DIMS: 21x16x10 IN
BILL THIRD PARTY
TO
EUROFINS
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(802) 860-1990
REF:
INV:
PO:
DEPT:
FedEx
Express
TRK# 0201 3981 8334 6794
FRI - 12 MAY 10:30A
PRIORITY OVERNIGHT
XE BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-68221-1
SDG Number: 200-68221-1

Login Number: 68221
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2155502, 5503
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	3/9/2023	1128	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	34002057	.08	.08	0	29.6	G26	3/10/23	1221	←	22.0	G26	3/13/23	1100	←	22.0
2	34000993	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
3	34000865	"	.22	.14	"	G26	"	"	"	"	G26	"	"	"	"
4	34000770	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
5	6491	.08	.08	0	"	G26	3/13/23	1100	←	22.0	G26	"	"	"	"
6	6418	.08	.08	0	29.6	G26	3/10/23	1221	←	22.0	G26	"	"	"	"
7	6425	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
8	5921	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
9	6605	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
10	34001667	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
11	5841	"	.08	0	"	G26	"	"	"	"	G26	"	"	"	"
12	3722	←	.08	0	✓	G26	✓	✓	✓	✓	G26	✓	✓	✓	✓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
6491	3/13/23	54645	KPI			XXXXXXX			3/13/23	MB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

5/22/2023

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

200-67194-A-5
6491
Location: Air-Storage
Bottle: Summa Canister 1L
Sampled 3/9/2023 12:00 AM 200-1712851

Loc: 200
67194
#5 A
Air-Storag -

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	4/17/2023	1453	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	6418	1.08	1.08	0	29.9	G26	4/18/23	1417	←	22.0	G26	4/20/23	1055	←	22.0
2	4650		1.08	0		G26					G26				
3	6605		1.08	0		G26					G26				
4	5922	1.08	1.08	0		G26	4/20/23	1055	←	22.0	G26				
5	34000906	1.08	1.08	0		G26	4/18/23	1417	←	22.0	G26				
6	34001624		1.08	0		G26					G26				
7	8440		1.08	0		G26					G26				
8	3817		1.06	0		G26					G26				
9	4838		1.15	0.07		G26					G26				
10	3580		1.05	0		G26					G26				
~~11~~	~~34001102~~		~~1.06~~	0		~~G26~~					~~G26~~				
12	34000801	↓	1.05	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
5922	4/19/23	55166	KP1			XXXXXXXX			4/19/23	CC

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments: _____

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	10	100	4/21/2023	1240	22	22	SML	1 liter	batch

						Initial Reading					Final Reading				
Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	6454	108	108	0	29.6	G26	4/22/23	1419	C	22.0	G26	5/4/23	1330	C	22.
2	6482		108	0		G26					G26				
3	6269		108	0		G26					G26				
4	4839		108	0		G26					G26				
5	34001627		108	0		G26					G26				
6	34002482		108	0		G26					G26				
7	5856	108	108	0		G26	5/4/23	1330	C	22.	G26				
8	4651	108	108	0		G26	4/22/23	1419	C	22.0	G26				
9	3690		108	0		G26					G26				
10	3576		108	0		G26					G26				
11	3728		108	0		G26					G26				
12	34000643		108	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

				Inventory Level				Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Revi
5856	4/24/23	55228	ABL			XXXXXXX			4/24/23	CM

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Page 27 of 52

5/22/2023

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

200-67850-A-7
5856
Location: Air-Storage
Bottle: Summa Canister 1L
Sampled: 4/21/2023 12:00 AM 200-1731901

Loc: 200
67850
#7 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67194-1

SDG No.:

Client Sample ID: 6491 Lab Sample ID: 200-67194-5

Matrix: Air Lab File ID: 54645-007.d

Analysis Method: TO-15 Date Collected: 03/09/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 03/10/2023 14:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 189229 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.052
100-42-5	Styrene	0.20	U	0.20	0.059
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.045
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.054
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.089
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.042
106-99-0	1,3-Butadiene	0.20	U	0.20	0.039
107-05-1	Allyl chloride	0.50	U	0.50	0.12
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.093
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.13
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.047
108-88-3	Toluene	0.20	U	0.20	0.042
108-90-7	Chlorobenzene	0.20	U	0.20	0.044
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.3
110-54-3	Hexane	0.50	U	0.50	0.11
110-82-7	Cyclohexane	0.20	U	0.20	0.058
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.33
123-91-1	1,4-Dioxane	0.20	U	0.20	0.078
124-48-1	Dibromochloromethane	0.20	U	0.20	0.063
127-18-4	Tetrachloroethene	0.20	U	0.20	0.021
142-82-5	n-Heptane	0.20	U	0.20	0.055
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.021
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.036
179601-23-1	m,p-Xylene	0.50	U	0.50	0.095
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.038
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.074
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.022
593-60-2	Vinyl bromide	0.20	U	0.20	0.050
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.049
64-17-5	Ethanol	5.0	U	5.0	2.6
67-63-0	Isopropanol	5.0	U	5.0	1.6
67-64-1	Acetone	5.0	U	5.0	1.6
67-66-3	Chloroform	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67194-1

SDG No.:

Client Sample ID: 6491 Lab Sample ID: 200-67194-5

Matrix: Air Lab File ID: 54645-007.d

Analysis Method: TO-15 Date Collected: 03/09/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 03/10/2023 14:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 189229 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.044
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.044
74-83-9	Bromomethane	0.20	U	0.20	0.071
74-87-3	Chloromethane	0.50	U	0.50	0.15
75-00-3	Chloroethane	0.50	U	0.50	0.18
75-01-4	Vinyl chloride	0.20	U	0.20	0.021
75-09-2	Methylene Chloride	0.50	U	0.50	0.18
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.12
75-27-4	Bromodichloromethane	0.20	U	0.20	0.050
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.025
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.026
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.050
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.053
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.094
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.49
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.074
79-01-6	Trichloroethene	0.20	U	0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.14
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.11
91-20-3	Naphthalene	0.50	U	0.50	0.30
95-47-6	Xylene, o-	0.20	U	0.20	0.052
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.046
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.066
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.080
591-78-6	2-Hexanone	0.50	U	0.50	0.15

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230310-54645.b\54645-007.d
Lims ID: 200-67194-A-5
Client ID: 6491
Sample Type: Client
Inject. Date: 10-Mar-2023 14:43:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0054645-007
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20230310-54645.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Mar-2023 07:08:36 Calib Date: 03-Mar-2023 01:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20230302-54558.b\54558-015.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1631

First Level Reviewer: puangmaleek Date: 13-Mar-2023 07:09:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.089				ND	
	2 Dichlorodifluoromethane	85		4.180				ND	7
	3 Chlorodifluoromethane	51		4.222				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.517				ND	
	5 Chloromethane	50		4.634				ND	
	6 Vinyl chloride	62		4.923				ND	
	7 Butane	43		4.929				ND	7
	8 Butadiene	54		5.036				ND	
	9 Bromomethane	94		5.736				ND	
	10 Chloroethane	64		6.004				ND	
	13 Vinyl bromide	106		6.421				ND	
	14 Trichlorofluoromethane	101		6.582				ND	
	16 Ethanol	45		6.951				ND	
	20 1,1-Dichloroethene	96		7.630				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.673				ND	
	22 Acetone	43		7.710				ND	
	23 Isopropyl alcohol	45		8.005				ND	
	24 Carbon disulfide	76		8.037				ND	7
	26 3-Chloro-1-propene	41		8.326				ND	
	27 Methylene Chloride	49		8.550				ND	7
	28 2-Methyl-2-propanol	59		8.770				ND	
	30 trans-1,2-Dichloroethene	61		9.048				ND	
	31 Methyl tert-butyl ether	73		9.064				ND	
	32 Hexane	57		9.551				ND	
	33 1,1-Dichloroethane	63		9.802				ND	
	34 Vinyl acetate	43		9.813				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.760				ND	
	37 cis-1,2-Dichloroethene	96		10.786				ND	
	38 Ethyl acetate	88		10.856				ND	
*	39 Chlorobromomethane	128	11.193	11.193	0.000	87	81885	10.0	
	40 Tetrahydrofuran	42		11.241				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Chloroform	83		11.370				ND	
	42 1,1,1-Trichloroethane	97		11.675				ND	
	43 Cyclohexane	84		11.814				ND	
	44 Carbon tetrachloride	117		11.953				ND	
	45 Benzene	78		12.295				ND	
	46 1,2-Dichloroethane	62		12.370				ND	
	47 Isooctane	57		12.514				ND	
	48 n-Heptane	43		12.830				ND	
*	49 1,4-Difluorobenzene	114	13.033	13.033	0.000	94	432983	10.0	
	51 Trichloroethene	95		13.461				ND	
	53 1,2-Dichloropropane	63		13.916				ND	
	54 Methyl methacrylate	69		14.012				ND	
	55 1,4-Dioxane	88		14.055				ND	
	57 Dibromomethane	174		14.071				ND	
	58 Dichlorobromomethane	83		14.381				ND	
	59 cis-1,3-Dichloropropene	75		15.184				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.446				ND	
	62 Toluene	92		15.826				ND	
	66 trans-1,3-Dichloropropene	75		16.238				ND	
	67 1,1,2-Trichloroethane	83		16.612				ND	
	68 Tetrachloroethene	166		16.816				ND	
	69 2-Hexanone	43		17.030				ND	
	70 Chlorodibromomethane	129		17.351				ND	
	71 Ethylene Dibromide	107		17.586				ND	
*	73 Chlorobenzene-d5	117	18.495	18.495	0.000	86	342749	10.0	
	74 Chlorobenzene	112		18.554				ND	
	75 Ethylbenzene	91		18.752				ND	
	76 m-Xylene & p-Xylene	106		19.014				ND	
	78 o-Xylene	106		19.785				ND	
	79 Styrene	104		19.822				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.181				ND	
	82 Isopropylbenzene	105		20.518				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.047				ND	
	85 N-Propylbenzene	91		21.256				ND	7
	86 2-Chlorotoluene	91		21.400				ND	7
	87 4-Ethyltoluene	105		21.459				ND	7
	88 1,3,5-Trimethylbenzene	105		21.555				ND	7
	91 tert-Butylbenzene	119		22.048				ND	
	92 1,2,4-Trimethylbenzene	105		22.139				ND	
	93 sec-Butylbenzene	105		22.379				ND	
	94 1,3-Dichlorobenzene	146		22.550				ND	7
	95 4-Isopropyltoluene	119		22.599				ND	
	96 1,4-Dichlorobenzene	146		22.695				ND	7
	97 Benzyl chloride	91		22.839				ND	
	98 n-Butylbenzene	91		23.155				ND	
	99 1,2-Dichlorobenzene	146		23.176				ND	7
	102 1,2,4-Trichlorobenzene	180		25.557				ND	
	103 Hexachlorobutadiene	225		25.798				ND	
	104 Naphthalene	128		26.012				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00010 Amount Added: 20.00 Units: mL Run Reagent

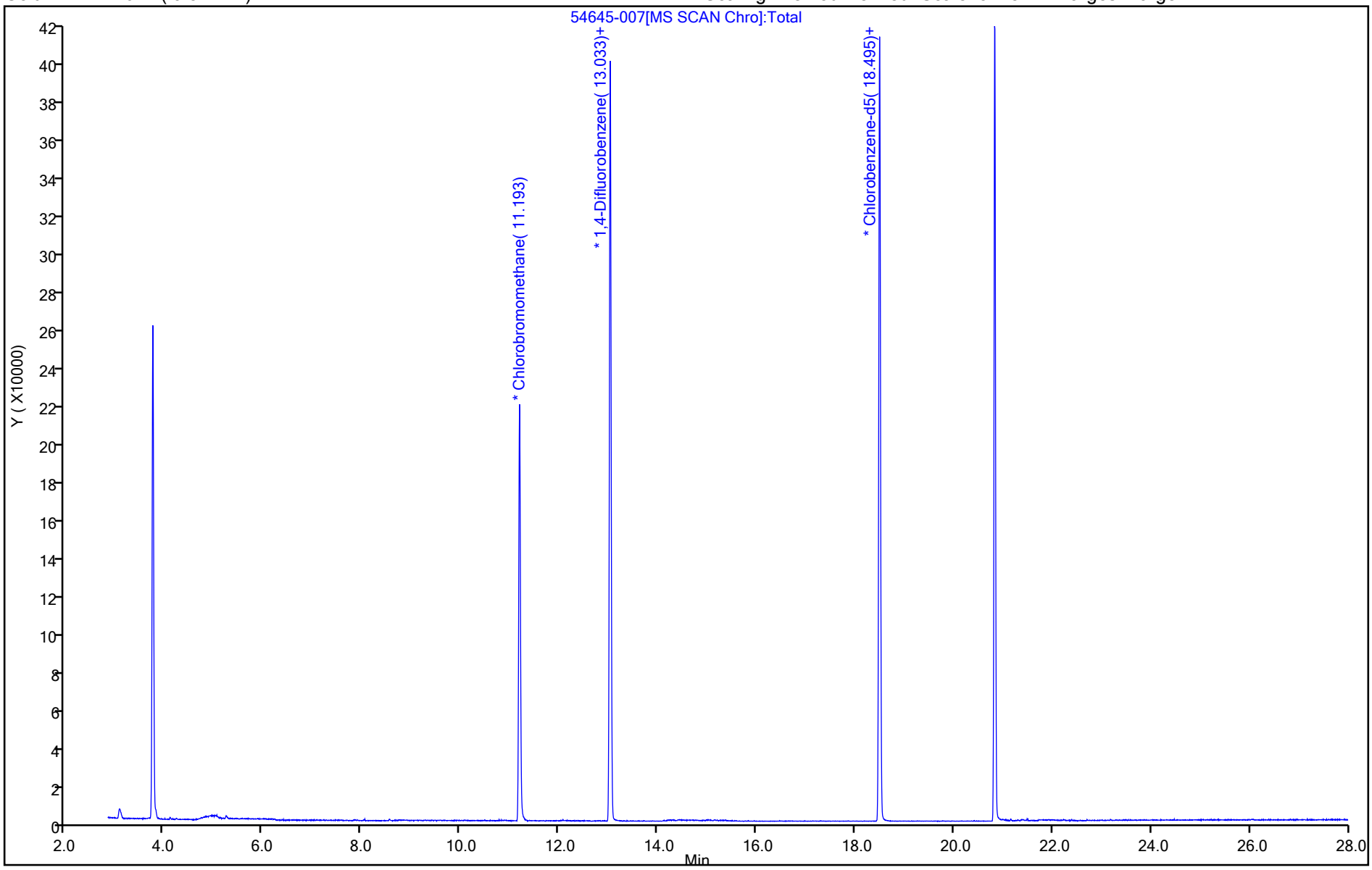
Report Date: 13-Mar-2023 07:09:04 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230310-54645.b\54645-007.d

Injection Date:	10-Mar-2023 14:43:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-67194-A-5	Lab Sample ID:	200-67194-5	Worklist Smp#:	7
Client ID:	6491				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67789-1

SDG No.:

Client Sample ID: 5922 Lab Sample ID: 200-67789-4

Matrix: Air Lab File ID: 55166_014.D

Analysis Method: TO-15 Date Collected: 04/17/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/18/2023 20:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 190479 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67789-1

SDG No.:

Client Sample ID: 5922 Lab Sample ID: 200-67789-4

Matrix: Air Lab File ID: 55166_014.D

Analysis Method: TO-15 Date Collected: 04/17/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/18/2023 20:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 190479 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67789-1

SDG No.:

Client Sample ID: 5922 Lab Sample ID: 200-67789-4

Matrix: Air Lab File ID: 55166_014.D

Analysis Method: TO-15 Date Collected: 04/17/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/18/2023 20:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 190479 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20230418-55166.b\55166_014.D
Lims ID: 200-67789-A-4
Client ID: 5922
Sample Type: Client
Inject. Date: 18-Apr-2023 20:09:10 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0055166-014
Misc. Info.: 67715-12
Operator ID: Instrument ID: CHAN.i

Method: \\chromfs\Burlington\ChromData\CHAN.i\20230418-55166.b\TO15_TO3_Master_Method_AN.m
Limit Group: AI_TO15_ICAL
Last Update: 19-Apr-2023 09:24:48 Calib Date: 27-Mar-2023 23:39:57
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHAN.i\20230327-54861.b\54861_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: puangmaleek Date: 19-Apr-2023 09:24:48

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.396				ND	7
	2 Dichlorodifluoromethane	85		4.497				ND	7
	3 Chlorodifluoromethane	51		4.551				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.867				ND	
	5 Chloromethane	50		4.995				ND	MU
	7 Butane	43		5.300				ND	7
	6 Vinyl chloride	62		5.300				ND	
	8 Butadiene	54		5.412				ND	
	9 Bromomethane	94		6.145				ND	
	10 Chloroethane	64		6.418				ND	
	13 Vinyl bromide	106		6.846				ND	
	14 Trichlorofluoromethane	101		7.001				ND	7
	16 Ethanol	45		7.392				ND	MU
	20 1,1-Dichloroethene	96		8.071				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		8.109				ND	
	22 Acetone	43		8.157				ND	7
	23 Isopropyl alcohol	45		8.451				ND	7
	24 Carbon disulfide	76		8.467				ND	7
	26 3-Chloro-1-propene	41		8.772				ND	7
	27 Methylene Chloride	49		9.013				ND	7
	28 2-Methyl-2-propanol	59		9.221				ND	
	30 trans-1,2-Dichloroethene	61		9.500				ND	
	31 Methyl tert-butyl ether	73		9.500				ND	
	32 Hexane	57		10.002				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	33 1,1-Dichloroethane	63		10.286				ND	
	34 Vinyl acetate	43		10.286				ND	
	36 2-Butanone (MEK)	72		11.265				ND	7
	37 cis-1,2-Dichloroethene	96		11.286				ND	
	38 Ethyl acetate	88		11.335				ND	
*	39 Chlorobromomethane	128	11.698	11.698	0.000	78	173457	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.725				ND	
	41 Chloroform	83		11.880				ND	
	42 1,1,1-Trichloroethane	97		12.174				ND	
	43 Cyclohexane	84		12.297				ND	
	44 Carbon tetrachloride	117		12.442				ND	
	45 Benzene	78		12.800				ND	7
	46 1,2-Dichloroethane	62		12.886				ND	
	47 Isooctane	57		13.004				ND	
	48 n-Heptane	43		13.309				ND	
*	49 1,4-Difluorobenzene	114	13.538	13.539	-0.001	93	835598	10.0	
	51 Trichloroethene	95		13.967				ND	
	53 1,2-Dichloropropane	63		14.437				ND	
	54 Methyl methacrylate	69		14.512				ND	
	55 1,4-Dioxane	88		14.550				ND	
	57 Dibromomethane	174		14.593				ND	7
	58 Dichlorobromomethane	83		14.903				ND	
	59 cis-1,3-Dichloropropene	75		15.700				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.973				ND	
	62 Toluene	92		16.337				ND	7
	66 trans-1,3-Dichloropropene	75		16.759				ND	
	67 1,1,2-Trichloroethane	83		17.134				ND	
	68 Tetrachloroethene	166		17.310				ND	
	69 2-Hexanone	43		17.546				ND	7
	70 Chlorodibromomethane	129		17.872				ND	
	71 Ethylene Dibromide	107		18.107				ND	
*	73 Chlorobenzene-d5	117	19.017	19.017	0.000	84	737583	10.0	
	74 Chlorobenzene	112		19.070				ND	
	75 Ethylbenzene	91		19.258				ND	7
	76 m-Xylene & p-Xylene	106		19.520				ND	7
S	80 Xylenes, Total	106		20.100				ND	7
	78 o-Xylene	106		20.290				ND	
	79 Styrene	104		20.327				ND	
	81 Bromoform	173		20.670				ND	
	82 Isopropylbenzene	105		20.964				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.488				ND	
	85 N-Propylbenzene	91		21.665				ND	
	86 2-Chlorotoluene	91		21.815				ND	
	87 4-Ethyltoluene	105		21.858				ND	
	88 1,3,5-Trimethylbenzene	105		21.948				ND	
	91 tert-Butylbenzene	119		22.430				ND	
	92 1,2,4-Trimethylbenzene	105		22.510				ND	7
	93 sec-Butylbenzene	105		22.746				ND	7
	94 1,3-Dichlorobenzene	146		22.922				ND	
	95 4-Isopropyltoluene	119		22.960				ND	
	96 1,4-Dichlorobenzene	146		23.061				ND	
	97 Benzyl chloride	91		23.211				ND	
	98 n-Butylbenzene	91		23.516				ND	
	99 1,2-Dichlorobenzene	146		23.559				ND	
	102 1,2,4-Trichlorobenzene	180		26.036				ND	
	103 Hexachlorobutadiene	225		26.276				ND	
	104 Naphthalene	128		26.528				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00012 Amount Added: 20.00 Units: mL Run Reagent

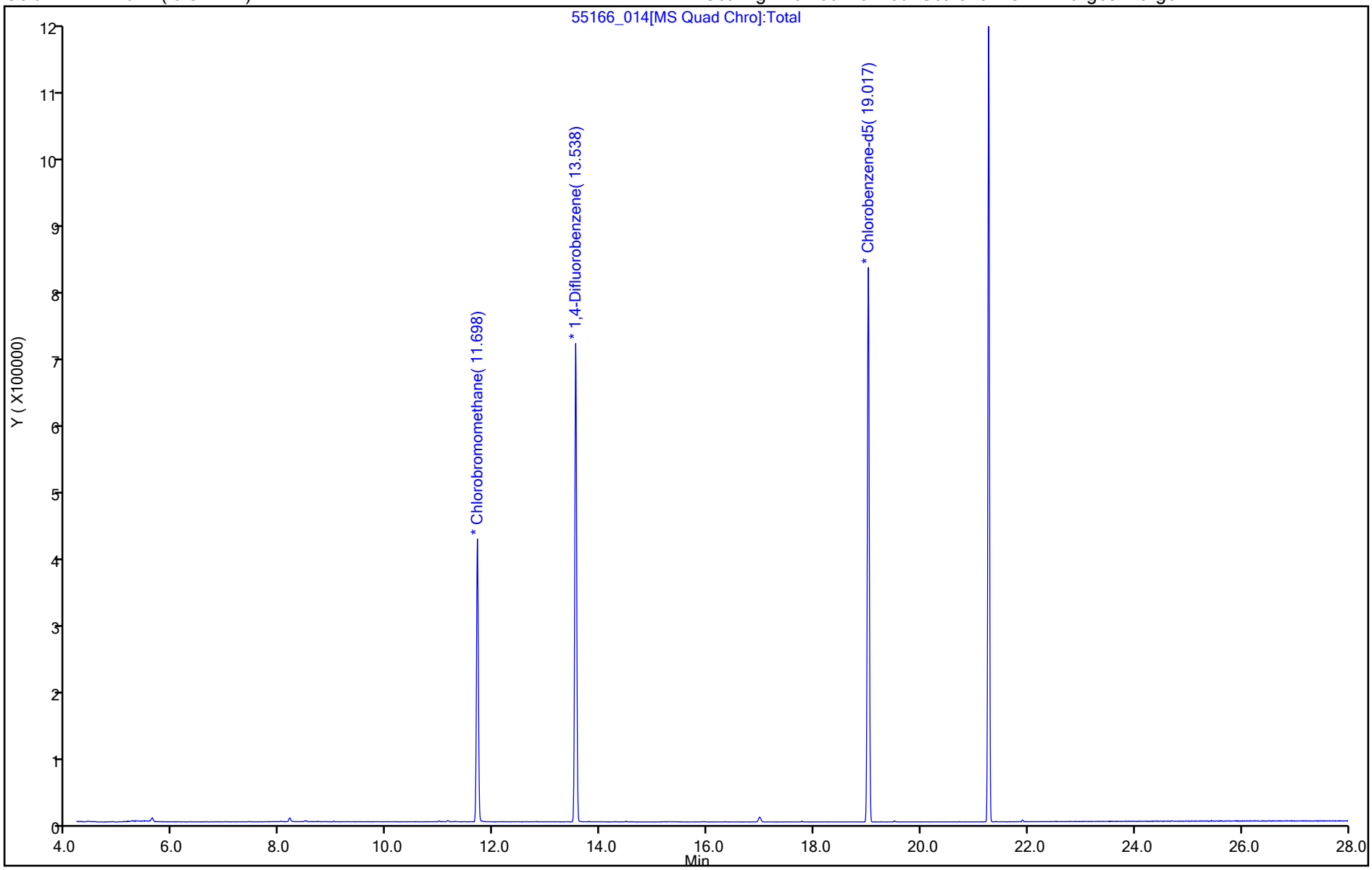
Report Date: 19-Apr-2023 09:24:49 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20230418-55166.b\55166_014.D

Injection Date:	18-Apr-2023 20:09:10	Instrument ID:	CHAN.i	Operator ID:	
Lims ID:	200-67789-A-4	Lab Sample ID:	200-67789-4	Worklist Smp#:	14
Client ID:	5922				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



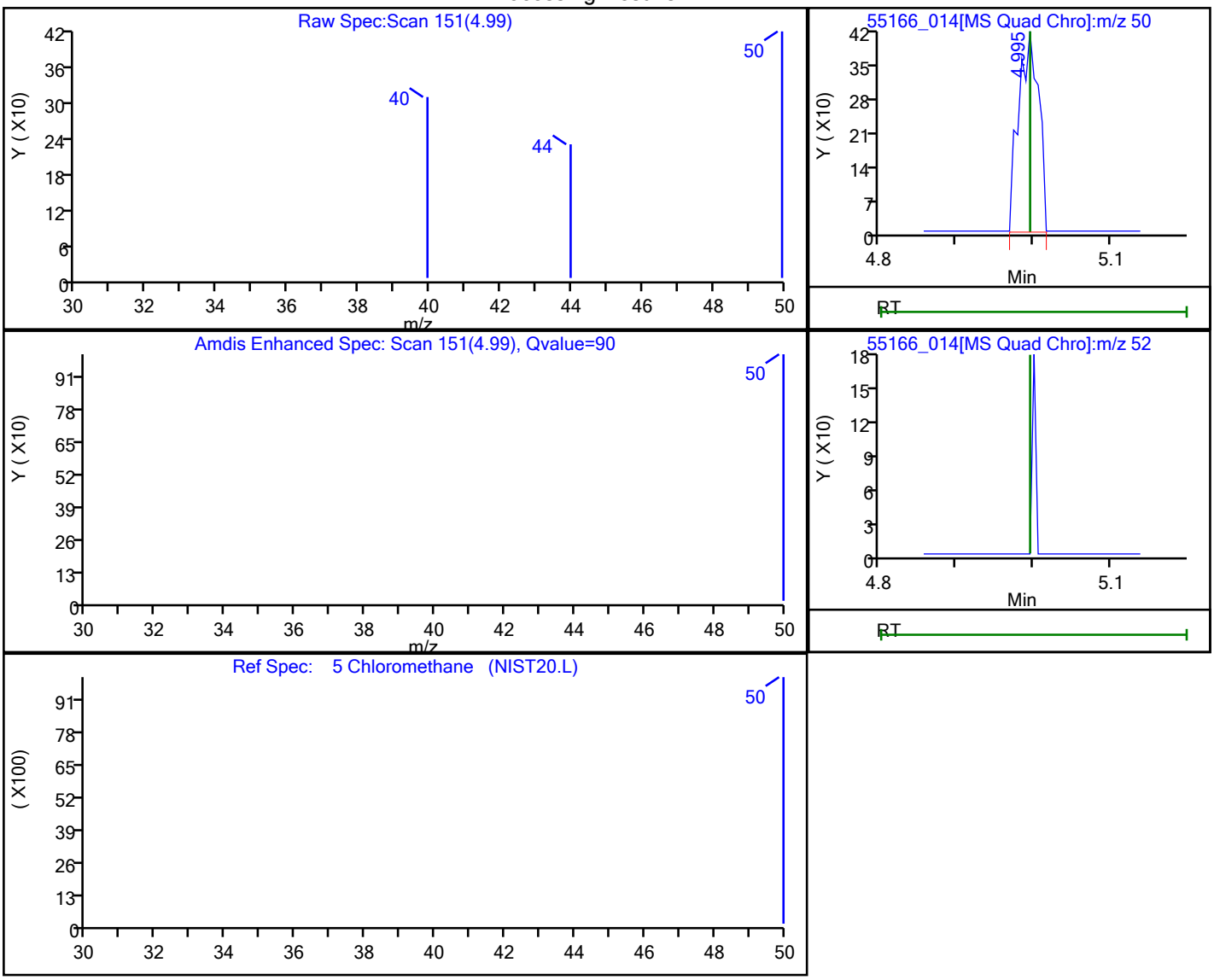
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHAN.i\20230418-55166.b\55166_014.D				
Injection Date:	18-Apr-2023 20:09:10	Instrument ID:	CHAN.i		
Lims ID:	200-67789-A-4	Lab Sample ID:	200-67789-4		
Client ID:	5922				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.99	50.00	755	0.035984
5.00	52.00	0	

Reviewer: puangmaleek, 19-Apr-2023 09:24:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

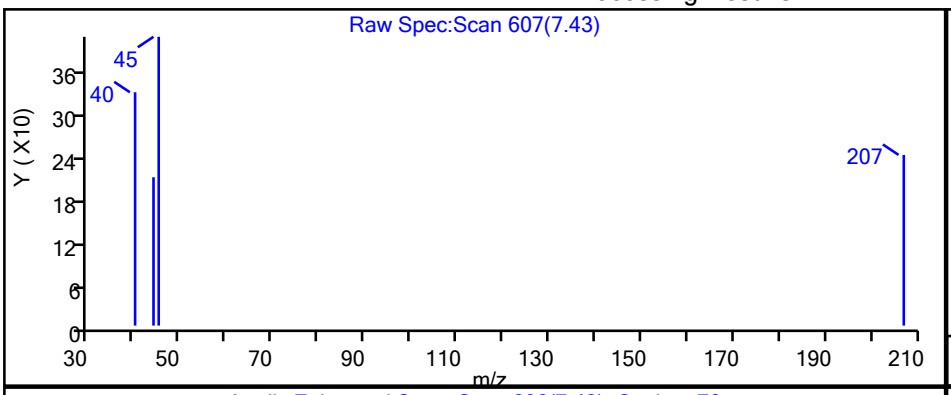
User Disabled Compound Report

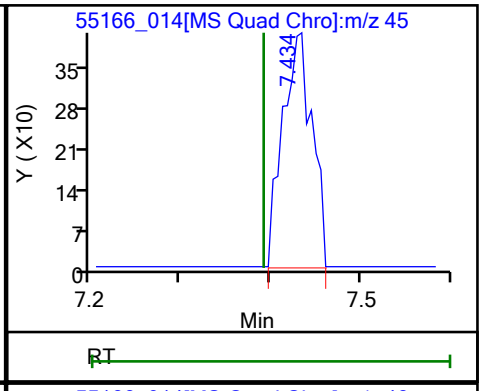
Eurofins Burlington

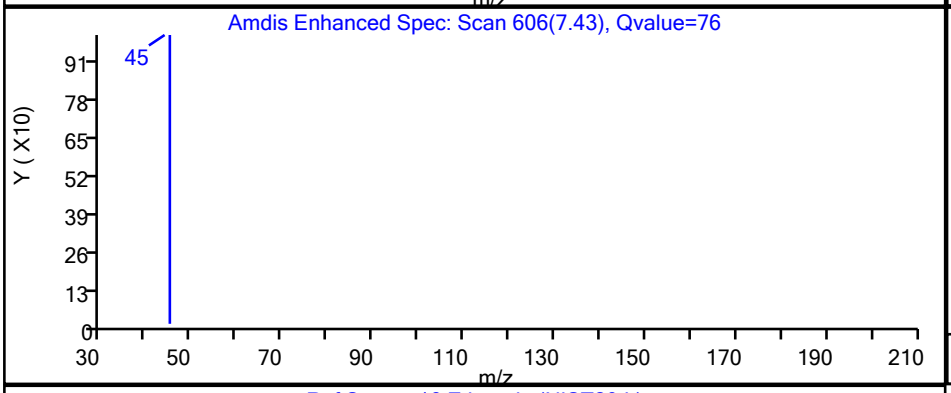
Data File:	\\chromfs\Burlington\ChromData\CHAN.i\20230418-55166.b\55166_014.D				
Injection Date:	18-Apr-2023 20:09:10	Instrument ID:	CHAN.i		
Lims ID:	200-67789-A-4	Lab Sample ID:	200-67789-4		
Client ID:	5922				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

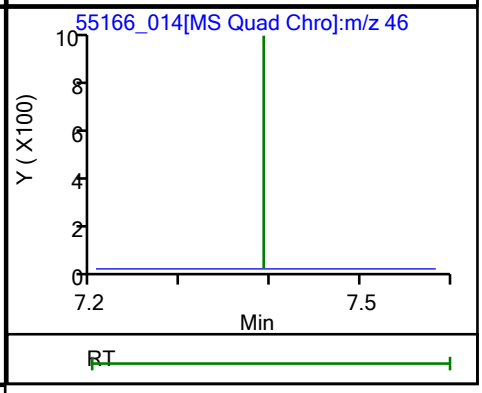
16 Ethanol, CAS: 64-17-5

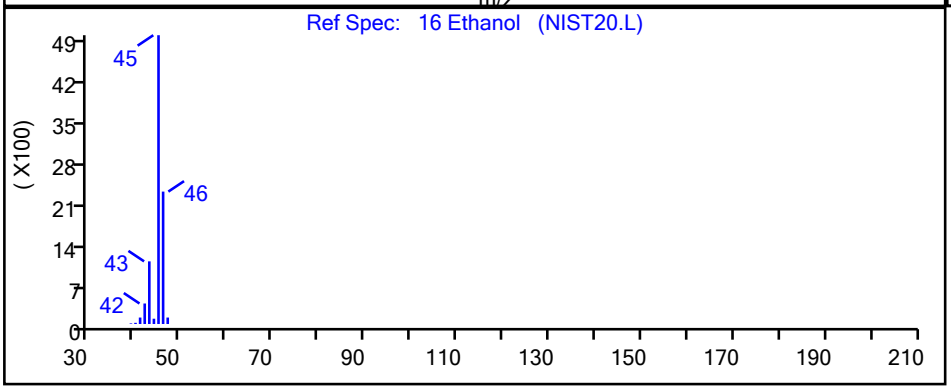
Processing Results











RT	Mass	Response	Amount
7.43	45.00	914	0.088062
7.39	46.00	0	

Reviewer: puangmaleek, 19-Apr-2023 09:24:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-67850-1

SDG No.:

Client Sample ID: 5856 | Lab Sample ID: 200-67850-7

Matrix: Air | Lab File ID: 200-55228-008.D

Analysis Method: TO-15 | Date Collected: 04/21/2023 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/22/2023 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 190641 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67850-1

SDG No.:

Client Sample ID: 5856 Lab Sample ID: 200-67850-7

Matrix: Air Lab File ID: 200-55228-008.D

Analysis Method: TO-15 Date Collected: 04/21/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/22/2023 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 190641 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67850-1

SDG No.:

Client Sample ID: 5856 Lab Sample ID: 200-67850-7

Matrix: Air Lab File ID: 200-55228-008.D

Analysis Method: TO-15 Date Collected: 04/21/2023 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/22/2023 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 190641 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230422-55228.b\200-55228-008.D
Lims ID: 200-67850-A-7
Client ID: 5856
Sample Type: Client
Inject. Date: 22-Apr-2023 14:47:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0055228-008
Misc. Info.: 67850-7
Operator ID: vtp Instrument ID: CHG.i

Method: \\chromfs\Burlington\ChromData\CHG.i\20230422-55228.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Apr-2023 11:47:47 Calib Date: 06-Apr-2023 22:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20230406-55000.b\200-55000-017.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: puangmaleek Date: 24-Apr-2023 11:47:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.099				ND	7
2 Dichlorodifluoromethane	85		3.158				ND	
3 Chlorodifluoromethane	51		3.179				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.377				ND	
5 Chloromethane	50		3.458				ND	7
6 Vinyl chloride	62		3.656				ND	
7 Butane	43		3.661				ND	MU
8 Butadiene	54		3.730				ND	
9 Bromomethane	94		4.223				ND	
10 Chloroethane	64		4.415				ND	
12 Vinyl bromide	106		4.736				ND	
13 Trichlorofluoromethane	101		4.865				ND	
15 Ethanol	45		5.148				ND	
18 1,1-Dichloroethene	96		5.753				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.785				ND	
19 Acetone	43		5.811				ND	7
22 Isopropyl alcohol	45		6.074				ND	
23 Carbon disulfide	76		6.132				ND	
25 3-Chloro-1-propene	41		6.379				ND	7
26 Methylene Chloride	49		6.593				ND	7
27 2-Methyl-2-propanol	59		6.807				ND	
29 trans-1,2-Dichloroethene	61		7.085				ND	
30 Methyl tert-butyl ether	73		7.106				ND	
31 Hexane	57		7.588				ND	
32 1,1-Dichloroethane	63		7.823				ND	
33 Vinyl acetate	43		7.839				ND	
34 2-Butanone (MEK)	72		8.791				ND	
35 cis-1,2-Dichloroethene	96		8.807				ND	
36 Ethyl acetate	88		8.882				ND	
* 37 Chlorobromomethane	128	9.219	9.219	0.000	87	135986	10.0	
38 Tetrahydrofuran	42		9.294				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Chloroform	83		9.406				ND	
S 43 1,2-Dichloroethene, Total	61		9.665				ND	7
40 1,1,1-Trichloroethane	97		9.727				ND	
41 Cyclohexane	84		9.888				ND	
42 Carbon tetrachloride	117		10.027				ND	
44 Benzene	78		10.396				ND	MU
45 1,2-Dichloroethane	62		10.466				ND	
46 Isooctane	57		10.653				ND	
47 n-Heptane	43		11.001				ND	7
* 48 1,4-Difluorobenzene	114	11.209	11.209	0.000	96	714797	10.0	
50 Trichloroethene	95		11.691				ND	
51 1,2-Dichloropropane	63		12.188				ND	
54 Methyl methacrylate	69		12.327				ND	
53 Dibromomethane	174		12.360				ND	7
55 1,4-Dioxane	88		12.365				ND	
56 Dichlorobromomethane	83		12.713				ND	
58 cis-1,3-Dichloropropene	75		13.606				ND	
59 4-Methyl-2-pentanone (MIBK)	43		13.916				ND	
60 Toluene	92	14.307	14.307	0.000	87	644	0.0235	
65 trans-1,3-Dichloropropene	75		14.756				ND	
66 1,1,2-Trichloroethane	83		15.152				ND	
67 Tetrachloroethene	166		15.377				ND	
68 2-Hexanone	43		15.634				ND	7
69 Chlorodibromomethane	129		15.938				ND	
70 Ethylene Dibromide	107		16.190				ND	
* 71 Chlorobenzene-d5	117	17.169	17.169	0.000	95	550198	10.0	
72 Chlorobenzene	112		17.228				ND	
73 Ethylbenzene	91	17.442	17.447	-0.005	92	2823	0.0468	
74 m-Xylene & p-Xylene	106		17.731				ND	
76 o-Xylene	106	18.533	18.538	-0.005	89	460	0.0209	
77 Styrene	104		18.576				ND	
78 Bromoform	173		18.934				ND	
79 Isopropylbenzene	105		19.309				ND	
S 82 Xylenes, Total	106				0		0.0209	
80 1,1,2,2-Tetrachloroethane	83		19.854				ND	7
83 N-Propylbenzene	91		20.079				ND	
84 2-Chlorotoluene	91		20.224				ND	
85 4-Ethyltoluene	105		20.293				ND	
86 1,3,5-Trimethylbenzene	105		20.395				ND	
89 tert-Butylbenzene	119		20.898				ND	7
90 1,2,4-Trimethylbenzene	105		20.989				ND	7
91 sec-Butylbenzene	105		21.240				ND	7
92 1,3-Dichlorobenzene	146		21.406				ND	7
93 4-Isopropyltoluene	119		21.465				ND	7
94 1,4-Dichlorobenzene	146		21.556				ND	7
95 Benzyl chloride	91		21.705				ND	7
97 n-Butylbenzene	91		22.037				ND	7
96 1,2-Dichlorobenzene	146		22.053				ND	7
100 1,2,4-Trichlorobenzene	180		24.503				ND	
101 Hexachlorobutadiene	225		24.755				ND	
102 Naphthalene	128		24.969				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15GIS_00019	Amount Added:	20.00	Units: mL	Run Reagent

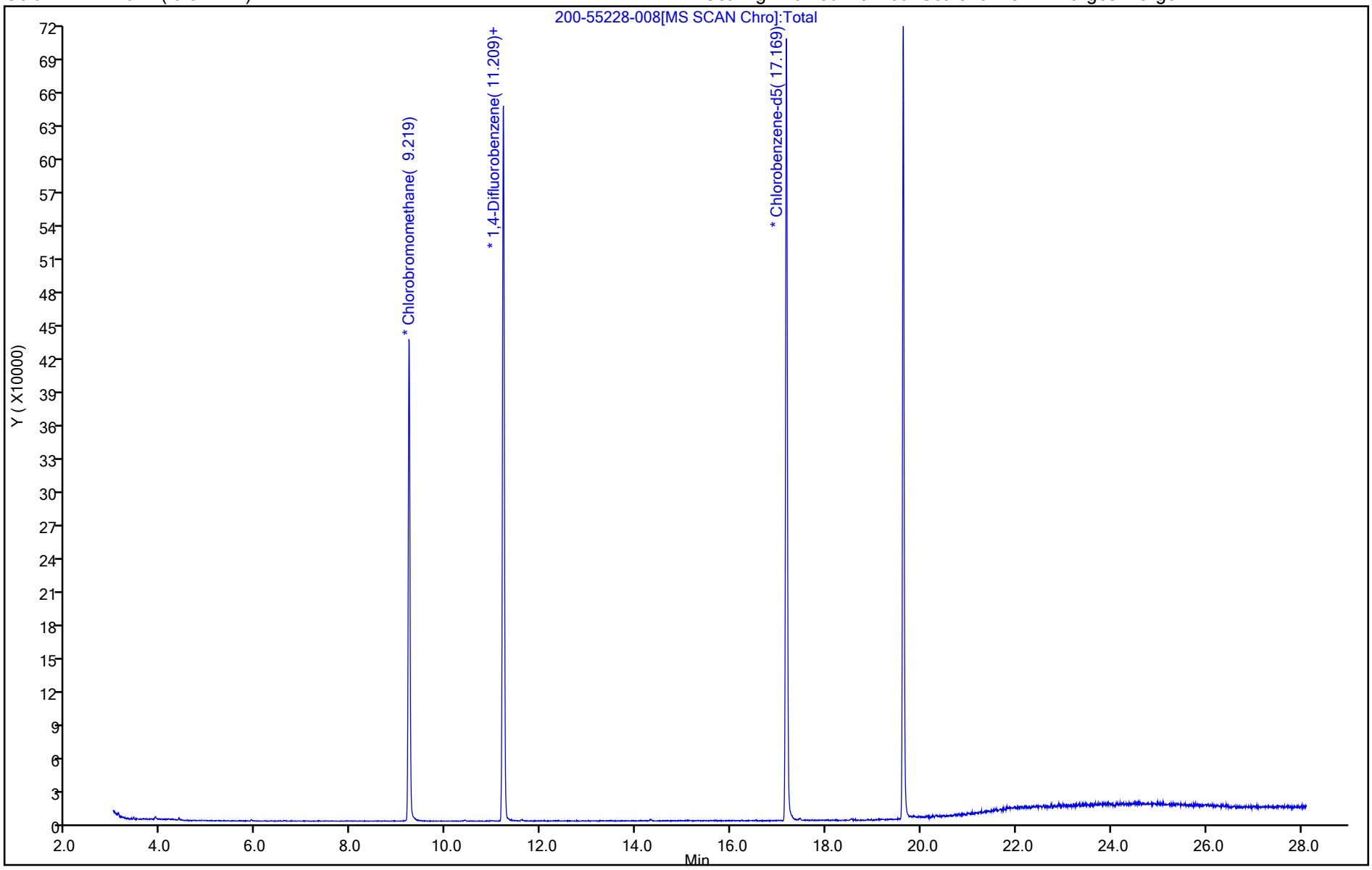
Report Date: 24-Apr-2023 11:47:48 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230422-55228.b\200-55228-008.D

Injection Date:	22-Apr-2023 14:47:30	Instrument ID:	CHG.i	Operator ID:	vtp
Lims ID:	200-67850-A-7	Lab Sample ID:	200-67850-7	Worklist Smp#:	8
Client ID:	5856				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



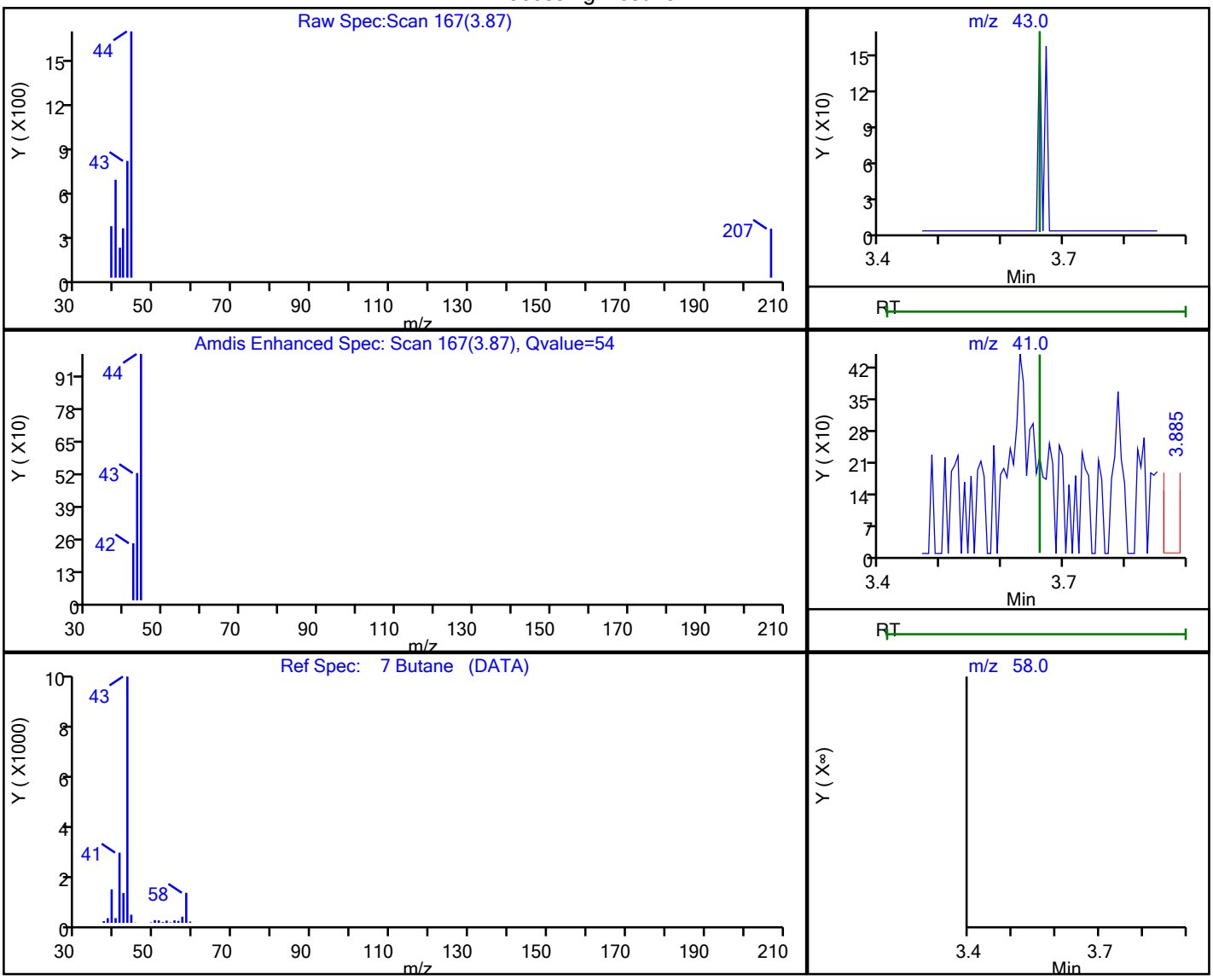
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20230422-55228.b\200-55228-008.D				
Injection Date:	22-Apr-2023 14:47:30	Instrument ID:	CHG.i		
Lims ID:	200-67850-A-7	Lab Sample ID:	200-67850-7		
Client ID:	5856				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

7 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.87	43.00	1523	0.097836
3.89	41.00	440	
3.66	58.00	0	

Reviewer: puangmaleek, 24-Apr-2023 11:44:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

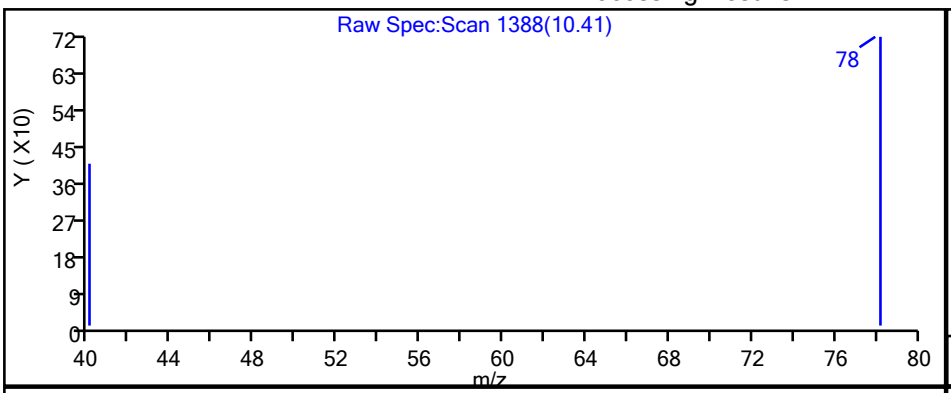
User Disabled Compound Report

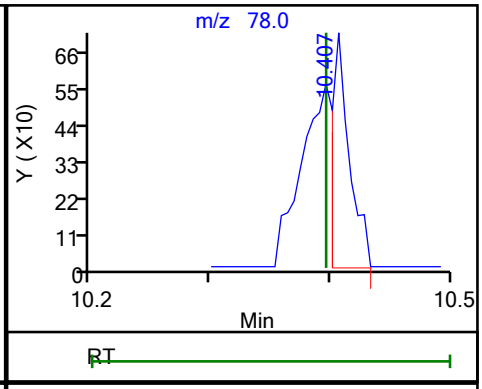
Eurofins Burlington

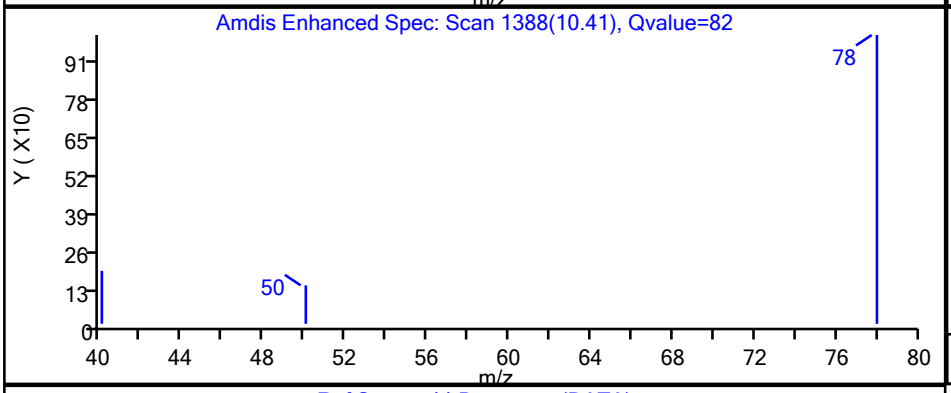
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20230422-55228.b\200-55228-008.D				
Injection Date:	22-Apr-2023 14:47:30	Instrument ID:	CHG.i		
Lims ID:	200-67850-A-7	Lab Sample ID:	200-67850-7		
Client ID:	5856				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

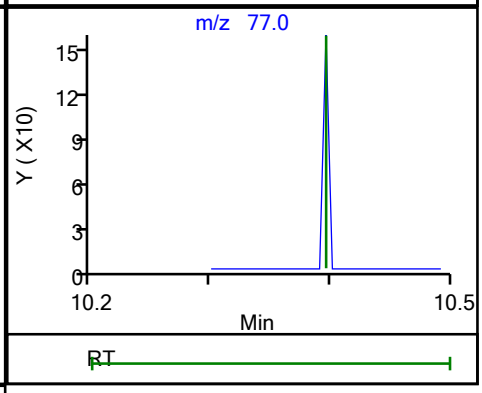
44 Benzene, CAS: 71-43-2

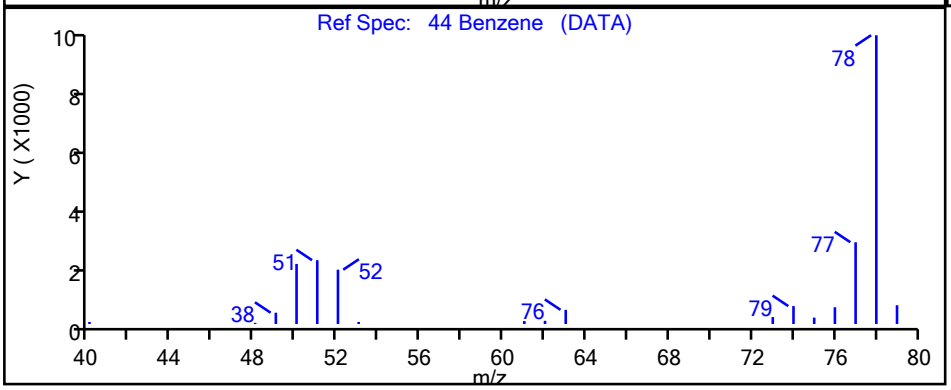
Processing Results











RT	Mass	Response	Amount
10.41	78.00	715	0.017968
10.40	77.00	0	

Reviewer: puangmaleek, 24-Apr-2023 11:44:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc
Project/Site: Crosman Vapor

Job No.: 200-68221-1
SDG No.: 200-68221-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-68221-1	1	-1.8	0.94	0.94	40.5	3.76	3.76		4.00	4.00	G31	05/18/23 11:02	TPB
200-68221-1	1	0	1.00	1.00	21.6	2.47	2.47		2.47	9.87	G31	05/18/23 11:02	TPB
200-68221-2	1	-8.6	0.71	0.71	40.1	3.73	3.73		5.23	5.23	G31	05/18/23 11:03	TPB
200-68221-2	1	0	1.00	1.00	16.3	2.11	2.11		2.11	11.03	G31	05/18/23 11:03	TPB
200-68221-3	1	-8.0	0.73	0.73	44.9	4.05	4.05		5.53	5.53	G31	05/18/23 11:03	TPB
200-68221-3	1	0	1.00	1.00	23.9	2.63	2.63		2.63	14.53	G31	05/18/23 11:03	TPB
200-68221-4	1	-5.2	0.83	0.83	40.8	3.78	3.78		4.57	4.57	G31	05/18/23 11:04	TPB
200-68221-4	1	0	1.00	1.00	16.8	2.14	2.14		2.14	9.79	G31	05/18/23 11:04	TPB

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Appendix F

Groundwater Monitoring Logs and Laboratory Reports

April 19, 2022 Service Request No:R2203257

Mr. Aaron Richardson
ARCADIS of New York, Inc.
295 Woodcliff Drive
Third Floor, Suite 301
Fairport, NY 14450

Laboratory Results for: Crosman

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory April 12, 2022
For your reference, these analyses have been assigned our service request number **R2203257.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2203257
Project: Crosman **Date Received:** 04/12/2022
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 04/12/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, 04/18/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 04/18/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 04/18/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____ Date 04/19/2022

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PW-1			Lab ID: R2203257-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	11			5.0	ug/L	8260C

CLIENT ID: MW-3A			Lab ID: R2203257-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	220			10	ug/L	8260C

CLIENT ID: MW-5			Lab ID: R2203257-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	20			5.0	ug/L	8260C

CLIENT ID: MW-13			Lab ID: R2203257-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	5.1			5.0	ug/L	8260C
Trichloroethene	130			5.0	ug/L	8260C

CLIENT ID: MW-14			Lab ID: R2203257-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	11			5.0	ug/L	8260C

CLIENT ID: MW-17			Lab ID: R2203257-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	390			13	ug/L	8260C

CLIENT ID: MW-20			Lab ID: R2203257-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	150			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:**R2203257
Project: Crosman/30005202

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2203257-001	PW-1	4/12/2022	1110
R2203257-002	MW-3A	4/12/2022	1310
R2203257-003	MW-4	4/12/2022	0950
R2203257-004	MW-5	4/12/2022	1015
R2203257-005	MW-13	4/12/2022	1245
R2203257-006	MW-14	4/12/2022	1040
R2203257-007	MW-15	4/12/2022	0925
R2203257-008	MW-17	4/12/2022	1340
R2203257-009	MW-18	4/12/2022	1210
R2203257-010	MW-19	4/12/2022	1150
R2203257-011	MW-20	4/12/2022	1415
R2203257-012	Trip Blank	4/12/2022	

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 1462: 585-288-5380 FAX 585-288-8475

SR# _____

Project Name: Crosman **Project Number:** 30005202

Project Manager: Aaron Richardson **Company:** Arcadis of New York, Inc.

Company/Address: 100 Chestnut Street **Phone:** 585-662-4057

City, State, Zip: Rochester, NY 14604 **Email:** Aaron.Richardson@Arcadis.com

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: VOCs										REMARKS
PW-1	4/12/2022	1110		GW	3	X										
MW-3A	4/12/2022	1310		GW	3	X										
MW-4	4/12/2022	0950		GW	3	X										
MW-5	4/12/2022	1015		GW	3	X										
MW-13	4/12/2022	1245		GW	3	X										
MW-14	4/12/2022	1040		GW	3	X										
MW-15	4/12/2022	0925		GW	3	X										
MW-17	4/12/2022	1340		GW	3	X										
MW-18	4/12/2022	1210		GW	3	X										
MW-19	4/12/2022	1150		GW	3	X										
MW-20	4/12/2022	1415		GW	3	X										
TRIP BLANK	--	--		W		X										

TURNAROUND REQUIREMENTS

____ 24 hr* ____ 48 hr* ____ 3BD* ____ 5 BD*

* RUSH TAT additional surcharges apply

X Standard (10 BD)

Requested Report Date: _____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

_____ I. Routine Report: Results and Method Blank (Surrogate, as required)

_____ II. Results w/ QC (Dup., MS, MSD as req)

_____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B Package

_____ EDD?

EDD Type:

Comments/Special Instructions:

RELINQUISHED BY:

Signature: Kaitlyn Fleming

Printed Name: Kaitlyn Fleming

Firm: Arcadis

Date/Time: 04/12/22 1510

RECEIVED BY:

Signature: _____

Printed Name: Gregory O. Esmerian

Firm: ALS

Date/Time: 4/12/22 1510

RELINQUISHED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

RECEIVED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

R2203257 5

ARCADIS of New York, Inc.

Crosman

R2203257 5
ARCADIS of New York, Inc.
Crosman

Cooler Receipt and Preservation Check Form

Project/Client Arcadis Folder Number

Cooler received on 4/12/22 by: NE

COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 4/9/22 Time: 1512 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	8.9						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) (Same Day Rule)

&Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: R-002 by NE on 4/12/22 at 1517
5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 4/13/22 Time: 0922 by: NE

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	No lot info					

Bottle lot numbers: 2621

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: NE
PC Secondary Review: JMS 4/15/22

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r19.doc 03/02/2021

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2203257
Project: Crosman/30005202

Sample Name: PW-1 **Date Collected:** 04/12/22
Lab Code: R2203257-001 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-3A **Date Collected:** 04/12/22
Lab Code: R2203257-002 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-4 **Date Collected:** 04/12/22
Lab Code: R2203257-003 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-5 **Date Collected:** 04/12/22
Lab Code: R2203257-004 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-13 **Date Collected:** 04/12/22
Lab Code: R2203257-005 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2203257
Project: Crosman/30005202

Sample Name: MW-14 **Date Collected:** 04/12/22
Lab Code: R2203257-006 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-15 **Date Collected:** 04/12/22
Lab Code: R2203257-007 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-17 **Date Collected:** 04/12/22
Lab Code: R2203257-008 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-18 **Date Collected:** 04/12/22
Lab Code: R2203257-009 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-19 **Date Collected:** 04/12/22
Lab Code: R2203257-010 **Date Received:** 04/12/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202		

Sample Name:	MW-20	**Date Collected:**	04/12/22
Lab Code:	R2203257-011	**Date Received:**	04/12/22
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	Trip Blank	**Date Collected:**	04/12/22
Lab Code:	R2203257-012	**Date Received:**	04/12/22
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 11:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2203257-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 15:17	
Benzene	ND U	5.0	1	04/18/22 15:17	
Bromodichloromethane	ND U	5.0	1	04/18/22 15:17	
Bromoform	ND U	5.0	1	04/18/22 15:17	
Bromomethane	ND U	5.0	1	04/18/22 15:17	
2-Butanone (MEK)	ND U	10	1	04/18/22 15:17	
Carbon Disulfide	ND U	10	1	04/18/22 15:17	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 15:17	
Chlorobenzene	ND U	5.0	1	04/18/22 15:17	
Chloroethane	ND U	5.0	1	04/18/22 15:17	
Chloroform	ND U	5.0	1	04/18/22 15:17	
Chloromethane	ND U	5.0	1	04/18/22 15:17	
Dibromochloromethane	ND U	5.0	1	04/18/22 15:17	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 15:17	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 15:17	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 15:17	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 15:17	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 15:17	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 15:17	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 15:17	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 15:17	
Ethylbenzene	ND U	5.0	1	04/18/22 15:17	
2-Hexanone	ND U	10	1	04/18/22 15:17	
Methylene Chloride	ND U	5.0	1	04/18/22 15:17	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 15:17	
Styrene	ND U	5.0	1	04/18/22 15:17	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 15:17	
Tetrachloroethene	ND U	5.0	1	04/18/22 15:17	
Toluene	ND U	5.0	1	04/18/22 15:17	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 15:17	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 15:17	
Trichloroethene	**11**	5.0	1	04/18/22 15:17	
Vinyl Chloride	ND U	5.0	1	04/18/22 15:17	
o-Xylene	ND U	5.0	1	04/18/22 15:17	
m,p-Xylenes	ND U	5.0	1	04/18/22 15:17	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 11:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2203257-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/18/22 15:17	
Toluene-d8	101	87 - 121	04/18/22 15:17	
Dibromofluoromethane	98	80 - 116	04/18/22 15:17	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 13:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	R2203257-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	20	2	04/18/22 15:39	
Benzene	ND U	10	2	04/18/22 15:39	
Bromodichloromethane	ND U	10	2	04/18/22 15:39	
Bromoform	ND U	10	2	04/18/22 15:39	
Bromomethane	ND U	10	2	04/18/22 15:39	
2-Butanone (MEK)	ND U	20	2	04/18/22 15:39	
Carbon Disulfide	ND U	20	2	04/18/22 15:39	
Carbon Tetrachloride	ND U	10	2	04/18/22 15:39	
Chlorobenzene	ND U	10	2	04/18/22 15:39	
Chloroethane	ND U	10	2	04/18/22 15:39	
Chloroform	ND U	10	2	04/18/22 15:39	
Chloromethane	ND U	10	2	04/18/22 15:39	
Dibromochloromethane	ND U	10	2	04/18/22 15:39	
1,1-Dichloroethane	ND U	10	2	04/18/22 15:39	
1,2-Dichloroethane	ND U	10	2	04/18/22 15:39	
1,1-Dichloroethene	ND U	10	2	04/18/22 15:39	
cis-1,2-Dichloroethene	ND U	10	2	04/18/22 15:39	
trans-1,2-Dichloroethene	ND U	10	2	04/18/22 15:39	
1,2-Dichloropropane	ND U	10	2	04/18/22 15:39	
cis-1,3-Dichloropropene	ND U	10	2	04/18/22 15:39	
trans-1,3-Dichloropropene	ND U	10	2	04/18/22 15:39	
Ethylbenzene	ND U	10	2	04/18/22 15:39	
2-Hexanone	ND U	20	2	04/18/22 15:39	
Methylene Chloride	ND U	10	2	04/18/22 15:39	
4-Methyl-2-pentanone (MIBK)	ND U	20	2	04/18/22 15:39	
Styrene	ND U	10	2	04/18/22 15:39	
1,1,2,2-Tetrachloroethane	ND U	10	2	04/18/22 15:39	
Tetrachloroethene	ND U	10	2	04/18/22 15:39	
Toluene	ND U	10	2	04/18/22 15:39	
1,1,1-Trichloroethane	ND U	10	2	04/18/22 15:39	
1,1,2-Trichloroethane	ND U	10	2	04/18/22 15:39	
Trichloroethene	**220**	10	2	04/18/22 15:39	
Vinyl Chloride	ND U	10	2	04/18/22 15:39	
o-Xylene	ND U	10	2	04/18/22 15:39	
m,p-Xylenes	ND U	10	2	04/18/22 15:39	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 13:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	R2203257-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/18/22 15:39	
Toluene-d8	103	87 - 121	04/18/22 15:39	
Dibromofluoromethane	99	80 - 116	04/18/22 15:39	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 09:50
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2203257-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 16:01	
Benzene	ND U	5.0	1	04/18/22 16:01	
Bromodichloromethane	ND U	5.0	1	04/18/22 16:01	
Bromoform	ND U	5.0	1	04/18/22 16:01	
Bromomethane	ND U	5.0	1	04/18/22 16:01	
2-Butanone (MEK)	ND U	10	1	04/18/22 16:01	
Carbon Disulfide	ND U	10	1	04/18/22 16:01	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 16:01	
Chlorobenzene	ND U	5.0	1	04/18/22 16:01	
Chloroethane	ND U	5.0	1	04/18/22 16:01	
Chloroform	ND U	5.0	1	04/18/22 16:01	
Chloromethane	ND U	5.0	1	04/18/22 16:01	
Dibromochloromethane	ND U	5.0	1	04/18/22 16:01	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 16:01	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 16:01	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 16:01	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 16:01	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 16:01	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 16:01	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:01	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:01	
Ethylbenzene	ND U	5.0	1	04/18/22 16:01	
2-Hexanone	ND U	10	1	04/18/22 16:01	
Methylene Chloride	ND U	5.0	1	04/18/22 16:01	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 16:01	
Styrene	ND U	5.0	1	04/18/22 16:01	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 16:01	
Tetrachloroethene	ND U	5.0	1	04/18/22 16:01	
Toluene	ND U	5.0	1	04/18/22 16:01	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 16:01	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 16:01	
Trichloroethene	ND U	5.0	1	04/18/22 16:01	
Vinyl Chloride	ND U	5.0	1	04/18/22 16:01	
o-Xylene	ND U	5.0	1	04/18/22 16:01	
m,p-Xylenes	ND U	5.0	1	04/18/22 16:01	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 09:50
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2203257-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/18/22 16:01	
Toluene-d8	102	87 - 121	04/18/22 16:01	
Dibromofluoromethane	100	80 - 116	04/18/22 16:01	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 10:15
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2203257-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 16:23	
Benzene	ND U	5.0	1	04/18/22 16:23	
Bromodichloromethane	ND U	5.0	1	04/18/22 16:23	
Bromoform	ND U	5.0	1	04/18/22 16:23	
Bromomethane	ND U	5.0	1	04/18/22 16:23	
2-Butanone (MEK)	ND U	10	1	04/18/22 16:23	
Carbon Disulfide	ND U	10	1	04/18/22 16:23	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 16:23	
Chlorobenzene	ND U	5.0	1	04/18/22 16:23	
Chloroethane	ND U	5.0	1	04/18/22 16:23	
Chloroform	ND U	5.0	1	04/18/22 16:23	
Chloromethane	ND U	5.0	1	04/18/22 16:23	
Dibromochloromethane	ND U	5.0	1	04/18/22 16:23	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 16:23	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 16:23	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 16:23	
cis-1,2-Dichloroethene	**20**	5.0	1	04/18/22 16:23	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 16:23	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 16:23	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:23	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:23	
Ethylbenzene	ND U	5.0	1	04/18/22 16:23	
2-Hexanone	ND U	10	1	04/18/22 16:23	
Methylene Chloride	ND U	5.0	1	04/18/22 16:23	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 16:23	
Styrene	ND U	5.0	1	04/18/22 16:23	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 16:23	
Tetrachloroethene	ND U	5.0	1	04/18/22 16:23	
Toluene	ND U	5.0	1	04/18/22 16:23	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 16:23	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 16:23	
Trichloroethene	ND U	5.0	1	04/18/22 16:23	
Vinyl Chloride	ND U	5.0	1	04/18/22 16:23	
o-Xylene	ND U	5.0	1	04/18/22 16:23	
m,p-Xylenes	ND U	5.0	1	04/18/22 16:23	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 10:15
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2203257-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	04/18/22 16:23	
Toluene-d8	102	87 - 121	04/18/22 16:23	
Dibromofluoromethane	100	80 - 116	04/18/22 16:23	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 12:45
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2203257-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 16:44	
Benzene	ND U	5.0	1	04/18/22 16:44	
Bromodichloromethane	ND U	5.0	1	04/18/22 16:44	
Bromoform	ND U	5.0	1	04/18/22 16:44	
Bromomethane	ND U	5.0	1	04/18/22 16:44	
2-Butanone (MEK)	ND U	10	1	04/18/22 16:44	
Carbon Disulfide	ND U	10	1	04/18/22 16:44	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 16:44	
Chlorobenzene	ND U	5.0	1	04/18/22 16:44	
Chloroethane	ND U	5.0	1	04/18/22 16:44	
Chloroform	ND U	5.0	1	04/18/22 16:44	
Chloromethane	ND U	5.0	1	04/18/22 16:44	
Dibromochloromethane	ND U	5.0	1	04/18/22 16:44	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 16:44	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 16:44	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 16:44	
cis-1,2-Dichloroethene	**5.1**	5.0	1	04/18/22 16:44	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 16:44	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 16:44	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:44	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 16:44	
Ethylbenzene	ND U	5.0	1	04/18/22 16:44	
2-Hexanone	ND U	10	1	04/18/22 16:44	
Methylene Chloride	ND U	5.0	1	04/18/22 16:44	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 16:44	
Styrene	ND U	5.0	1	04/18/22 16:44	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 16:44	
Tetrachloroethene	ND U	5.0	1	04/18/22 16:44	
Toluene	ND U	5.0	1	04/18/22 16:44	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 16:44	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 16:44	
Trichloroethene	**130**	5.0	1	04/18/22 16:44	
Vinyl Chloride	ND U	5.0	1	04/18/22 16:44	
o-Xylene	ND U	5.0	1	04/18/22 16:44	
m,p-Xylenes	ND U	5.0	1	04/18/22 16:44	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 12:45
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2203257-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	04/18/22 16:44	
Toluene-d8	101	87 - 121	04/18/22 16:44	
Dibromofluoromethane	98	80 - 116	04/18/22 16:44	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 10:40
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2203257-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 17:06	
Benzene	ND U	5.0	1	04/18/22 17:06	
Bromodichloromethane	ND U	5.0	1	04/18/22 17:06	
Bromoform	ND U	5.0	1	04/18/22 17:06	
Bromomethane	ND U	5.0	1	04/18/22 17:06	
2-Butanone (MEK)	ND U	10	1	04/18/22 17:06	
Carbon Disulfide	ND U	10	1	04/18/22 17:06	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 17:06	
Chlorobenzene	ND U	5.0	1	04/18/22 17:06	
Chloroethane	ND U	5.0	1	04/18/22 17:06	
Chloroform	ND U	5.0	1	04/18/22 17:06	
Chloromethane	ND U	5.0	1	04/18/22 17:06	
Dibromochloromethane	ND U	5.0	1	04/18/22 17:06	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 17:06	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 17:06	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 17:06	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 17:06	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 17:06	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 17:06	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 17:06	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 17:06	
Ethylbenzene	ND U	5.0	1	04/18/22 17:06	
2-Hexanone	ND U	10	1	04/18/22 17:06	
Methylene Chloride	ND U	5.0	1	04/18/22 17:06	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 17:06	
Styrene	ND U	5.0	1	04/18/22 17:06	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 17:06	
Tetrachloroethene	ND U	5.0	1	04/18/22 17:06	
Toluene	ND U	5.0	1	04/18/22 17:06	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 17:06	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 17:06	
Trichloroethene	**11**	5.0	1	04/18/22 17:06	
Vinyl Chloride	ND U	5.0	1	04/18/22 17:06	
o-Xylene	ND U	5.0	1	04/18/22 17:06	
m,p-Xylenes	ND U	5.0	1	04/18/22 17:06	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 10:40
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2203257-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	04/18/22 17:06	
Toluene-d8	98	87 - 121	04/18/22 17:06	
Dibromofluoromethane	96	80 - 116	04/18/22 17:06	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 09:25
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2203257-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 17:28	
Benzene	ND U	5.0	1	04/18/22 17:28	
Bromodichloromethane	ND U	5.0	1	04/18/22 17:28	
Bromoform	ND U	5.0	1	04/18/22 17:28	
Bromomethane	ND U	5.0	1	04/18/22 17:28	
2-Butanone (MEK)	ND U	10	1	04/18/22 17:28	
Carbon Disulfide	ND U	10	1	04/18/22 17:28	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 17:28	
Chlorobenzene	ND U	5.0	1	04/18/22 17:28	
Chloroethane	ND U	5.0	1	04/18/22 17:28	
Chloroform	ND U	5.0	1	04/18/22 17:28	
Chloromethane	ND U	5.0	1	04/18/22 17:28	
Dibromochloromethane	ND U	5.0	1	04/18/22 17:28	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 17:28	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 17:28	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 17:28	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 17:28	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 17:28	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 17:28	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 17:28	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 17:28	
Ethylbenzene	ND U	5.0	1	04/18/22 17:28	
2-Hexanone	ND U	10	1	04/18/22 17:28	
Methylene Chloride	ND U	5.0	1	04/18/22 17:28	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 17:28	
Styrene	ND U	5.0	1	04/18/22 17:28	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 17:28	
Tetrachloroethene	ND U	5.0	1	04/18/22 17:28	
Toluene	ND U	5.0	1	04/18/22 17:28	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 17:28	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 17:28	
Trichloroethene	ND U	5.0	1	04/18/22 17:28	
Vinyl Chloride	ND U	5.0	1	04/18/22 17:28	
o-Xylene	ND U	5.0	1	04/18/22 17:28	
m,p-Xylenes	ND U	5.0	1	04/18/22 17:28	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 09:25
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2203257-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/18/22 17:28	
Toluene-d8	99	87 - 121	04/18/22 17:28	
Dibromofluoromethane	98	80 - 116	04/18/22 17:28	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 13:40
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2203257-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	25	2.5	04/18/22 17:50	
Benzene	ND U	13	2.5	04/18/22 17:50	
Bromodichloromethane	ND U	13	2.5	04/18/22 17:50	
Bromoform	ND U	13	2.5	04/18/22 17:50	
Bromomethane	ND U	13	2.5	04/18/22 17:50	
2-Butanone (MEK)	ND U	25	2.5	04/18/22 17:50	
Carbon Disulfide	ND U	25	2.5	04/18/22 17:50	
Carbon Tetrachloride	ND U	13	2.5	04/18/22 17:50	
Chlorobenzene	ND U	13	2.5	04/18/22 17:50	
Chloroethane	ND U	13	2.5	04/18/22 17:50	
Chloroform	ND U	13	2.5	04/18/22 17:50	
Chloromethane	ND U	13	2.5	04/18/22 17:50	
Dibromochloromethane	ND U	13	2.5	04/18/22 17:50	
1,1-Dichloroethane	ND U	13	2.5	04/18/22 17:50	
1,2-Dichloroethane	ND U	13	2.5	04/18/22 17:50	
1,1-Dichloroethene	ND U	13	2.5	04/18/22 17:50	
cis-1,2-Dichloroethene	ND U	13	2.5	04/18/22 17:50	
trans-1,2-Dichloroethene	ND U	13	2.5	04/18/22 17:50	
1,2-Dichloropropane	ND U	13	2.5	04/18/22 17:50	
cis-1,3-Dichloropropene	ND U	13	2.5	04/18/22 17:50	
trans-1,3-Dichloropropene	ND U	13	2.5	04/18/22 17:50	
Ethylbenzene	ND U	13	2.5	04/18/22 17:50	
2-Hexanone	ND U	25	2.5	04/18/22 17:50	
Methylene Chloride	ND U	13	2.5	04/18/22 17:50	
4-Methyl-2-pentanone (MIBK)	ND U	25	2.5	04/18/22 17:50	
Styrene	ND U	13	2.5	04/18/22 17:50	
1,1,2,2-Tetrachloroethane	ND U	13	2.5	04/18/22 17:50	
Tetrachloroethene	ND U	13	2.5	04/18/22 17:50	
Toluene	ND U	13	2.5	04/18/22 17:50	
1,1,1-Trichloroethane	ND U	13	2.5	04/18/22 17:50	
1,1,2-Trichloroethane	ND U	13	2.5	04/18/22 17:50	
Trichloroethene	**390**	13	2.5	04/18/22 17:50	
Vinyl Chloride	ND U	13	2.5	04/18/22 17:50	
o-Xylene	ND U	13	2.5	04/18/22 17:50	
m,p-Xylenes	ND U	13	2.5	04/18/22 17:50	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 13:40
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2203257-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/18/22 17:50	
Toluene-d8	103	87 - 121	04/18/22 17:50	
Dibromofluoromethane	99	80 - 116	04/18/22 17:50	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 12:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2203257-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 18:11	
Benzene	ND U	5.0	1	04/18/22 18:11	
Bromodichloromethane	ND U	5.0	1	04/18/22 18:11	
Bromoform	ND U	5.0	1	04/18/22 18:11	
Bromomethane	ND U	5.0	1	04/18/22 18:11	
2-Butanone (MEK)	ND U	10	1	04/18/22 18:11	
Carbon Disulfide	ND U	10	1	04/18/22 18:11	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 18:11	
Chlorobenzene	ND U	5.0	1	04/18/22 18:11	
Chloroethane	ND U	5.0	1	04/18/22 18:11	
Chloroform	ND U	5.0	1	04/18/22 18:11	
Chloromethane	ND U	5.0	1	04/18/22 18:11	
Dibromochloromethane	ND U	5.0	1	04/18/22 18:11	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 18:11	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 18:11	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 18:11	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:11	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:11	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 18:11	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:11	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:11	
Ethylbenzene	ND U	5.0	1	04/18/22 18:11	
2-Hexanone	ND U	10	1	04/18/22 18:11	
Methylene Chloride	ND U	5.0	1	04/18/22 18:11	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 18:11	
Styrene	ND U	5.0	1	04/18/22 18:11	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 18:11	
Tetrachloroethene	ND U	5.0	1	04/18/22 18:11	
Toluene	ND U	5.0	1	04/18/22 18:11	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 18:11	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 18:11	
Trichloroethene	ND U	5.0	1	04/18/22 18:11	
Vinyl Chloride	ND U	5.0	1	04/18/22 18:11	
o-Xylene	ND U	5.0	1	04/18/22 18:11	
m,p-Xylenes	ND U	5.0	1	04/18/22 18:11	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 12:10
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2203257-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/18/22 18:11	
Toluene-d8	98	87 - 121	04/18/22 18:11	
Dibromofluoromethane	97	80 - 116	04/18/22 18:11	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 11:50
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R2203257-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 18:33	
Benzene	ND U	5.0	1	04/18/22 18:33	
Bromodichloromethane	ND U	5.0	1	04/18/22 18:33	
Bromoform	ND U	5.0	1	04/18/22 18:33	
Bromomethane	ND U	5.0	1	04/18/22 18:33	
2-Butanone (MEK)	ND U	10	1	04/18/22 18:33	
Carbon Disulfide	ND U	10	1	04/18/22 18:33	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 18:33	
Chlorobenzene	ND U	5.0	1	04/18/22 18:33	
Chloroethane	ND U	5.0	1	04/18/22 18:33	
Chloroform	ND U	5.0	1	04/18/22 18:33	
Chloromethane	ND U	5.0	1	04/18/22 18:33	
Dibromochloromethane	ND U	5.0	1	04/18/22 18:33	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 18:33	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 18:33	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 18:33	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:33	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:33	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 18:33	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:33	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:33	
Ethylbenzene	ND U	5.0	1	04/18/22 18:33	
2-Hexanone	ND U	10	1	04/18/22 18:33	
Methylene Chloride	ND U	5.0	1	04/18/22 18:33	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 18:33	
Styrene	ND U	5.0	1	04/18/22 18:33	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 18:33	
Tetrachloroethene	ND U	5.0	1	04/18/22 18:33	
Toluene	ND U	5.0	1	04/18/22 18:33	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 18:33	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 18:33	
Trichloroethene	ND U	5.0	1	04/18/22 18:33	
Vinyl Chloride	ND U	5.0	1	04/18/22 18:33	
o-Xylene	ND U	5.0	1	04/18/22 18:33	
m,p-Xylenes	ND U	5.0	1	04/18/22 18:33	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 11:50
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R2203257-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	04/18/22 18:33	
Toluene-d8	92	87 - 121	04/18/22 18:33	
Dibromofluoromethane	90	80 - 116	04/18/22 18:33	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 14:15
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2203257-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 18:55	
Benzene	ND U	5.0	1	04/18/22 18:55	
Bromodichloromethane	ND U	5.0	1	04/18/22 18:55	
Bromoform	ND U	5.0	1	04/18/22 18:55	
Bromomethane	ND U	5.0	1	04/18/22 18:55	
2-Butanone (MEK)	ND U	10	1	04/18/22 18:55	
Carbon Disulfide	ND U	10	1	04/18/22 18:55	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 18:55	
Chlorobenzene	ND U	5.0	1	04/18/22 18:55	
Chloroethane	ND U	5.0	1	04/18/22 18:55	
Chloroform	ND U	5.0	1	04/18/22 18:55	
Chloromethane	ND U	5.0	1	04/18/22 18:55	
Dibromochloromethane	ND U	5.0	1	04/18/22 18:55	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 18:55	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 18:55	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 18:55	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:55	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 18:55	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 18:55	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:55	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 18:55	
Ethylbenzene	ND U	5.0	1	04/18/22 18:55	
2-Hexanone	ND U	10	1	04/18/22 18:55	
Methylene Chloride	ND U	5.0	1	04/18/22 18:55	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 18:55	
Styrene	ND U	5.0	1	04/18/22 18:55	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 18:55	
Tetrachloroethene	ND U	5.0	1	04/18/22 18:55	
Toluene	ND U	5.0	1	04/18/22 18:55	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 18:55	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 18:55	
Trichloroethene	**150**	5.0	1	04/18/22 18:55	
Vinyl Chloride	ND U	5.0	1	04/18/22 18:55	
o-Xylene	ND U	5.0	1	04/18/22 18:55	
m,p-Xylenes	ND U	5.0	1	04/18/22 18:55	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22 14:15
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2203257-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/18/22 18:55	
Toluene-d8	98	87 - 121	04/18/22 18:55	
Dibromofluoromethane	95	80 - 116	04/18/22 18:55	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2203257-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 14:55	
Benzene	ND U	5.0	1	04/18/22 14:55	
Bromodichloromethane	ND U	5.0	1	04/18/22 14:55	
Bromoform	ND U	5.0	1	04/18/22 14:55	
Bromomethane	ND U	5.0	1	04/18/22 14:55	
2-Butanone (MEK)	ND U	10	1	04/18/22 14:55	
Carbon Disulfide	ND U	10	1	04/18/22 14:55	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 14:55	
Chlorobenzene	ND U	5.0	1	04/18/22 14:55	
Chloroethane	ND U	5.0	1	04/18/22 14:55	
Chloroform	ND U	5.0	1	04/18/22 14:55	
Chloromethane	ND U	5.0	1	04/18/22 14:55	
Dibromochloromethane	ND U	5.0	1	04/18/22 14:55	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 14:55	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 14:55	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 14:55	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 14:55	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 14:55	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 14:55	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 14:55	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 14:55	
Ethylbenzene	ND U	5.0	1	04/18/22 14:55	
2-Hexanone	ND U	10	1	04/18/22 14:55	
Methylene Chloride	ND U	5.0	1	04/18/22 14:55	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 14:55	
Styrene	ND U	5.0	1	04/18/22 14:55	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 14:55	
Tetrachloroethene	ND U	5.0	1	04/18/22 14:55	
Toluene	ND U	5.0	1	04/18/22 14:55	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 14:55	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 14:55	
Trichloroethene	ND U	5.0	1	04/18/22 14:55	
Vinyl Chloride	ND U	5.0	1	04/18/22 14:55	
o-Xylene	ND U	5.0	1	04/18/22 14:55	
m,p-Xylenes	ND U	5.0	1	04/18/22 14:55	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22
Sample Matrix:	Water	**Date Received:**	04/12/22 15:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2203257-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	04/18/22 14:55	
Toluene-d8	99	87 - 121	04/18/22 14:55	
Dibromofluoromethane	98	80 - 116	04/18/22 14:55	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2203257
Project: Crosman/30005202
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Toluene-d8 87-121	Dibromofluoromethane 80-116
PW-1	R2203257-001	97	101	98
MW-3A	R2203257-002	97	103	99
MW-4	R2203257-003	97	102	100
MW-5	R2203257-004	99	102	100
MW-13	R2203257-005	96	101	98
MW-14	R2203257-006	92	98	96
MW-15	R2203257-007	91	99	98
MW-17	R2203257-008	98	103	99
MW-18	R2203257-009	95	98	97
MW-19	R2203257-010	86	92	90
MW-20	R2203257-011	94	98	95
Trip Blank	R2203257-012	96	99	98
Method Blank	RQ2204044-03	88	93	91
Lab Control Sample	RQ2204044-02	94	95	93
MW-20 MS	RQ2204044-05	99	100	99
MW-20 DMS	RQ2204044-06	99	101	102

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22
Sample Matrix:	Water	**Date Received:**	04/12/22
		Date Analyzed:	04/18/22
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2203257-011	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2204044-05			**Duplicate Matrix Spike** RQ2204044-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetone	ND U	57.2	50.0	114	56.5	50.0	113	35-183	1	30
Benzene	ND U	44.1	50.0	88	43.8	50.0	88	76-129	<1	30
Bromodichloromethane	ND U	43.0	50.0	86	42.2	50.0	84	78-133	2	30
Bromoform	ND U	45.0	50.0	90	46.6	50.0	93	58-133	4	30
Bromomethane	ND U	30.5	50.0	61	31.7	50.0	63	10-184	4	30
2-Butanone (MEK)	ND U	56.1	50.0	112	53.8	50.0	108	61-137	4	30
Carbon Disulfide	ND U	42.3	50.0	85	42.3	50.0	85	59-140	<1	30
Carbon Tetrachloride	ND U	45.9	50.0	92	45.0	50.0	90	65-135	2	30
Chlorobenzene	ND U	45.2	50.0	90	43.9	50.0	88	76-125	3	30
Chloroethane	ND U	46.6	50.0	93	46.4	50.0	93	48-146	<1	30
Chloroform	ND U	39.9	50.0	80	39.5	50.0	79	75-130	<1	30
Chloromethane	ND U	68.2	50.0	136	65.0	50.0	130	55-160	5	30
Dibromochloromethane	ND U	44.9	50.0	90	45.4	50.0	91	72-128	1	30
1,1-Dichloroethane	ND U	47.6	50.0	95	45.5	50.0	91	74-132	4	30
1,2-Dichloroethane	ND U	42.6	50.0	85	42.8	50.0	86	68-130	<1	30
1,1-Dichloroethene	ND U	42.9	50.0	86	42.0	50.0	84	71-118	2	30
cis-1,2-Dichloroethene	ND U	43.4	50.0	87	43.4	50.0	87	77-127	<1	30
trans-1,2-Dichloroethene	ND U	43.7	50.0	87	43.0	50.0	86	73-118	2	30
1,2-Dichloropropane	ND U	48.0	50.0	96	47.7	50.0	95	79-124	<1	30
cis-1,3-Dichloropropene	ND U	44.7	50.0	89	44.7	50.0	89	52-134	<1	30
trans-1,3-Dichloropropene	ND U	41.1	50.0	82	42.8	50.0	86	71-133	4	30
Ethylbenzene	ND U	46.7	50.0	93	45.4	50.0	91	72-134	3	30
2-Hexanone	ND U	55.3	50.0	111	52.5	50.0	105	56-132	5	30
Methylene Chloride	ND U	40.7	50.0	81	41.6	50.0	83	73-122	2	30
4-Methyl-2-pentanone (MIBK)	ND U	57.7	50.0	115	56.5	50.0	113	60-141	2	30
Styrene	ND U	47.5	50.0	95	46.2	50.0	92	74-136	3	30
1,1,2,2-Tetrachloroethane	ND U	44.1	50.0	88	44.3	50.0	89	72-122	<1	30
Tetrachloroethene	ND U	51.0	50.0	102	48.7	50.0	97	72-125	5	30
Toluene	ND U	45.6	50.0	91	45.4	50.0	91	79-119	<1	30
1,1,1-Trichloroethane	ND U	40.7	50.0	81	41.2	50.0	82	74-127	1	30
1,1,2-Trichloroethane	ND U	44.8	50.0	90	45.3	50.0	91	82-121	1	30
Trichloroethene	150	197	50.0	101	196	50.0	98	74-122	<1	30
Vinyl Chloride	ND U	53.6	50.0	107	52.9	50.0	106	74-159	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	04/12/22
Sample Matrix:	Water	**Date Received:**	04/12/22
		Date Analyzed:	04/18/22
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2203257-011	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2204044-05			Duplicate Matrix Spike RQ2204044-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
o-Xylene	ND U	46.2	50.0	92	45.2	50.0	90	79-123	2	30
m,p-Xylenes	ND U	96.3	100	96	93.9	100	94	80-126	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2204044-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/18/22 11:39	
Benzene	ND U	5.0	1	04/18/22 11:39	
Bromodichloromethane	ND U	5.0	1	04/18/22 11:39	
Bromoform	ND U	5.0	1	04/18/22 11:39	
Bromomethane	ND U	5.0	1	04/18/22 11:39	
2-Butanone (MEK)	ND U	10	1	04/18/22 11:39	
Carbon Disulfide	ND U	10	1	04/18/22 11:39	
Carbon Tetrachloride	ND U	5.0	1	04/18/22 11:39	
Chlorobenzene	ND U	5.0	1	04/18/22 11:39	
Chloroethane	ND U	5.0	1	04/18/22 11:39	
Chloroform	ND U	5.0	1	04/18/22 11:39	
Chloromethane	ND U	5.0	1	04/18/22 11:39	
Dibromochloromethane	ND U	5.0	1	04/18/22 11:39	
1,1-Dichloroethane	ND U	5.0	1	04/18/22 11:39	
1,2-Dichloroethane	ND U	5.0	1	04/18/22 11:39	
1,1-Dichloroethene	ND U	5.0	1	04/18/22 11:39	
cis-1,2-Dichloroethene	ND U	5.0	1	04/18/22 11:39	
trans-1,2-Dichloroethene	ND U	5.0	1	04/18/22 11:39	
1,2-Dichloropropane	ND U	5.0	1	04/18/22 11:39	
cis-1,3-Dichloropropene	ND U	5.0	1	04/18/22 11:39	
trans-1,3-Dichloropropene	ND U	5.0	1	04/18/22 11:39	
Ethylbenzene	ND U	5.0	1	04/18/22 11:39	
2-Hexanone	ND U	10	1	04/18/22 11:39	
Methylene Chloride	ND U	5.0	1	04/18/22 11:39	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/18/22 11:39	
Styrene	ND U	5.0	1	04/18/22 11:39	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/18/22 11:39	
Tetrachloroethene	ND U	5.0	1	04/18/22 11:39	
Toluene	ND U	5.0	1	04/18/22 11:39	
1,1,1-Trichloroethane	ND U	5.0	1	04/18/22 11:39	
1,1,2-Trichloroethane	ND U	5.0	1	04/18/22 11:39	
Trichloroethene	ND U	5.0	1	04/18/22 11:39	
Vinyl Chloride	ND U	5.0	1	04/18/22 11:39	
o-Xylene	ND U	5.0	1	04/18/22 11:39	
m,p-Xylenes	ND U	5.0	1	04/18/22 11:39	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2203257
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2204044-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	04/18/22 11:39	
Toluene-d8	93	87 - 121	04/18/22 11:39	
Dibromofluoromethane	91	80 - 116	04/18/22 11:39	

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2203257
Project: Crosman/30005202 **Date Analyzed:** 04/18/22
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2204044-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	22.2	20.0	111	40-161
Benzene	8260C	18.7	20.0	93	79-119
Bromodichloromethane	8260C	19.3	20.0	97	81-123
Bromoform	8260C	21.1	20.0	105	65-146
Bromomethane	8260C	15.8	20.0	79	42-166
2-Butanone (MEK)	8260C	22.3	20.0	111	61-137
Carbon Disulfide	8260C	18.5	20.0	93	66-128
Carbon Tetrachloride	8260C	19.8	20.0	99	70-127
Chlorobenzene	8260C	19.9	20.0	99	80-121
Chloroethane	8260C	21.1	20.0	106	62-131
Chloroform	8260C	17.5	20.0	87	79-120
Chloromethane	8260C	29.4	20.0	147 *	65-135
Dibromochloromethane	8260C	20.0	20.0	100	72-128
1,1-Dichloroethane	8260C	20.3	20.0	102	80-124
1,2-Dichloroethane	8260C	18.4	20.0	92	71-127
1,1-Dichloroethene	8260C	18.5	20.0	92	71-118
cis-1,2-Dichloroethene	8260C	19.1	20.0	95	80-121
trans-1,2-Dichloroethene	8260C	18.5	20.0	93	73-118
1,2-Dichloropropane	8260C	20.3	20.0	101	80-119
cis-1,3-Dichloropropene	8260C	20.3	20.0	101	77-122
trans-1,3-Dichloropropene	8260C	19.5	20.0	98	71-133
Ethylbenzene	8260C	19.5	20.0	97	76-120
2-Hexanone	8260C	20.7	20.0	104	63-124
Methylene Chloride	8260C	18.1	20.0	90	73-122
4-Methyl-2-pentanone (MIBK)	8260C	21.4	20.0	107	66-124
Styrene	8260C	20.3	20.0	101	80-124
1,1,2,2-Tetrachloroethane	8260C	17.9	20.0	90	78-126
Tetrachloroethene	8260C	22.8	20.0	114	72-125
Toluene	8260C	19.9	20.0	100	79-119
1,1,1-Trichloroethane	8260C	17.8	20.0	89	75-125
1,1,2-Trichloroethane	8260C	19.0	20.0	95	82-121
Trichloroethene	8260C	21.5	20.0	108	74-122
Vinyl Chloride	8260C	22.9	20.0	114	74-159

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2203257
Date Analyzed: 04/18/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2204044-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	19.7	20.0	98	79-123
m,p-Xylenes	8260C	40.7	40.0	102	80-126

November 08, 2022 Service Request No:R2210326

Mr. Aaron Richardson
ARCADIS of New York, Inc.
295 Woodcliff Drive
Third Floor, Suite 301
Fairport, NY 14450

Laboratory Results for: Crosman

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory October 27, 2022
For your reference, these analyses have been assigned our service request number **R2210326.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210326
Project: Crosman **Date Received:** 10/27/2022
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 10/27/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, 11/03/2022: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Additional analysis of the associated field samples was not be performed because the low recovery is due to a stock standard discrepancy; we are working with the vendor to correct the problem. The analytes affected are flagged in the LCS Summary.

Approved by _____ Date 11/08/2022

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-5			Lab ID: R2210326-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	13			5.0	ug/L	8260C
Trichloroethene	5.3			5.0	ug/L	8260C

CLIENT ID: MW-13			Lab ID: R2210326-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	160			5.0	ug/L	8260C

CLIENT ID: MW-14			Lab ID: R2210326-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	6.6			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:**R2210326
Project: Crosman/30005202

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2210326-001	MW-4	10/26/2022	1330
R2210326-002	MW-5	10/26/2022	1350
R2210326-003	MW-13	10/26/2022	1500
R2210326-004	MW-14	10/26/2022	1430
R2210326-005	MW-15	10/26/2022	1400
R2210326-006	Trip Blank	10/26/2022	

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 146 585-288-5380 FAX 585-288-8475

SR# _____

PAGE 1 OF 1

Project Name: Crosman **Project Number:** 30005202

Project Manager: Aaron Richardson **Company:** Arcadis of New York, Inc.

Company/Address: 100 Chestnut Street **Phone:** 585-662-4057

City, State, Zip: Rochester, NY 14604 **Email:** Aaron.Richardson@Arcadis.com

Sampler's Name and Signature:

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: VOCs										REMARKS
~~MW-1~~	10/26/2022			GW	3	X										
MW-4	10/26/2022	1330		GW	3	X										
MW-5	10/26/2022	1350 ~~1400~~		GW	3	X										
MW-13	10/26/2022	1500		GW	3	X										
MW-14	10/26/2022	1430		GW	3	X										
MW-15	10/26/2022	1400		GW	3	X										
TRIP BLANK	--	--		W		X										

TURNAROUND REQUIREMENTS

_____ 24 hr* _____ 48 hr* _____ 3BD* _____ 5 BD*

* RUSH TAT additional surcharges apply

X Standard (10 BD)

Requested Report Date: _____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

_____ I. Routine Report: Results and Method Blank (Surrogate, as required)

_____ II. Results w/ QC (Dup., MS, MSD as req)

_____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B Package

_____ EDD?

EDD Type:

Comments/Special Instructions:

RELINQUISHED BY:

Signature: _____

Printed Name: Carson Tenhagen

Firm: Arcadis

Date/Time: 10/27 8:12

RECEIVED BY:

Signature: _____

Printed Name: Gregory G. Esmerian AS

Firm: _____

Date/Time: 10/27/22 08:12

RELINQUISHED BY:

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

RECEIVED BY:

Signature: _____

Printed: _____

Firm: _____

Date/

R2210326 5

ARCADIS of New York, Inc.

Crosman

R2210326 5
ARCADIS of New York, Inc.
Cresman

Cooler Receipt and Preservation Che

Project/Client Arcadis Folder Number .

Cooler received on 10/27/22 by: @ **COURIER:** ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 10/27/22 Time: 0830 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	5.3						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-02 by @ on 10/27/22 at 0835
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/27/22 Time: 14:08 by: RE

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	22080153	06/23				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 091222-3AXH
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RE
PC Secondary Review: MMS 11/8/22 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210326
Project: Crosman/30005202

Sample Name: MW-4 **Date Collected:** 10/26/22
Lab Code: R2210326-001 **Date Received:** 10/27/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-5 **Date Collected:** 10/26/22
Lab Code: R2210326-002 **Date Received:** 10/27/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-13 **Date Collected:** 10/26/22
Lab Code: R2210326-003 **Date Received:** 10/27/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-14 **Date Collected:** 10/26/22
Lab Code: R2210326-004 **Date Received:** 10/27/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-15 **Date Collected:** 10/26/22
Lab Code: R2210326-005 **Date Received:** 10/27/22
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202		

Sample Name:	Trip Blank	**Date Collected:**	10/26/22
Lab Code:	R2210326-006	**Date Received:**	10/27/22
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 13:30
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2210326-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 22:16	
Benzene	ND U	5.0	1	11/03/22 22:16	
Bromodichloromethane	ND U	5.0	1	11/03/22 22:16	
Bromoform	ND U	5.0	1	11/03/22 22:16	
Bromomethane	ND U	5.0	1	11/03/22 22:16	
2-Butanone (MEK)	ND U	10	1	11/03/22 22:16	
Carbon Disulfide	ND U	10	1	11/03/22 22:16	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 22:16	
Chlorobenzene	ND U	5.0	1	11/03/22 22:16	
Chloroethane	ND U	5.0	1	11/03/22 22:16	
Chloroform	ND U	5.0	1	11/03/22 22:16	
Chloromethane	ND U	5.0	1	11/03/22 22:16	
Dibromochloromethane	ND U	5.0	1	11/03/22 22:16	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 22:16	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 22:16	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 22:16	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/22 22:16	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 22:16	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 22:16	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:16	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:16	
Ethylbenzene	ND U	5.0	1	11/03/22 22:16	
2-Hexanone	ND U	10	1	11/03/22 22:16	
Methylene Chloride	ND U	5.0	1	11/03/22 22:16	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 22:16	
Styrene	ND U	5.0	1	11/03/22 22:16	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 22:16	
Tetrachloroethene	ND U	5.0	1	11/03/22 22:16	
Toluene	ND U	5.0	1	11/03/22 22:16	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 22:16	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 22:16	
Trichloroethene	ND U	5.0	1	11/03/22 22:16	
Vinyl Chloride	ND U	5.0	1	11/03/22 22:16	
o-Xylene	ND U	5.0	1	11/03/22 22:16	
m,p-Xylenes	ND U	5.0	1	11/03/22 22:16	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 13:30
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2210326-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/03/22 22:16	
Toluene-d8	99	87 - 121	11/03/22 22:16	
Dibromofluoromethane	100	80 - 116	11/03/22 22:16	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 13:50
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2210326-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 22:37	
Benzene	ND U	5.0	1	11/03/22 22:37	
Bromodichloromethane	ND U	5.0	1	11/03/22 22:37	
Bromoform	ND U	5.0	1	11/03/22 22:37	
Bromomethane	ND U	5.0	1	11/03/22 22:37	
2-Butanone (MEK)	ND U	10	1	11/03/22 22:37	
Carbon Disulfide	ND U	10	1	11/03/22 22:37	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 22:37	
Chlorobenzene	ND U	5.0	1	11/03/22 22:37	
Chloroethane	ND U	5.0	1	11/03/22 22:37	
Chloroform	ND U	5.0	1	11/03/22 22:37	
Chloromethane	ND U	5.0	1	11/03/22 22:37	
Dibromochloromethane	ND U	5.0	1	11/03/22 22:37	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 22:37	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 22:37	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 22:37	
cis-1,2-Dichloroethene	**13**	5.0	1	11/03/22 22:37	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 22:37	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 22:37	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:37	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:37	
Ethylbenzene	ND U	5.0	1	11/03/22 22:37	
2-Hexanone	ND U	10	1	11/03/22 22:37	
Methylene Chloride	ND U	5.0	1	11/03/22 22:37	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 22:37	
Styrene	ND U	5.0	1	11/03/22 22:37	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 22:37	
Tetrachloroethene	ND U	5.0	1	11/03/22 22:37	
Toluene	ND U	5.0	1	11/03/22 22:37	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 22:37	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 22:37	
Trichloroethene	**5.3**	5.0	1	11/03/22 22:37	
Vinyl Chloride	ND U	5.0	1	11/03/22 22:37	
o-Xylene	ND U	5.0	1	11/03/22 22:37	
m,p-Xylenes	ND U	5.0	1	11/03/22 22:37	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 13:50
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2210326-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/03/22 22:37	
Toluene-d8	99	87 - 121	11/03/22 22:37	
Dibromofluoromethane	100	80 - 116	11/03/22 22:37	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 15:00
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2210326-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 22:59	
Benzene	ND U	5.0	1	11/03/22 22:59	
Bromodichloromethane	ND U	5.0	1	11/03/22 22:59	
Bromoform	ND U	5.0	1	11/03/22 22:59	
Bromomethane	ND U	5.0	1	11/03/22 22:59	
2-Butanone (MEK)	ND U	10	1	11/03/22 22:59	
Carbon Disulfide	ND U	10	1	11/03/22 22:59	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 22:59	
Chlorobenzene	ND U	5.0	1	11/03/22 22:59	
Chloroethane	ND U	5.0	1	11/03/22 22:59	
Chloroform	ND U	5.0	1	11/03/22 22:59	
Chloromethane	ND U	5.0	1	11/03/22 22:59	
Dibromochloromethane	ND U	5.0	1	11/03/22 22:59	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 22:59	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 22:59	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 22:59	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/22 22:59	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 22:59	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 22:59	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:59	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 22:59	
Ethylbenzene	ND U	5.0	1	11/03/22 22:59	
2-Hexanone	ND U	10	1	11/03/22 22:59	
Methylene Chloride	ND U	5.0	1	11/03/22 22:59	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 22:59	
Styrene	ND U	5.0	1	11/03/22 22:59	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 22:59	
Tetrachloroethene	ND U	5.0	1	11/03/22 22:59	
Toluene	ND U	5.0	1	11/03/22 22:59	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 22:59	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 22:59	
Trichloroethene	**160**	5.0	1	11/03/22 22:59	
Vinyl Chloride	ND U	5.0	1	11/03/22 22:59	
o-Xylene	ND U	5.0	1	11/03/22 22:59	
m,p-Xylenes	ND U	5.0	1	11/03/22 22:59	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 15:00
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2210326-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/03/22 22:59	
Toluene-d8	99	87 - 121	11/03/22 22:59	
Dibromofluoromethane	99	80 - 116	11/03/22 22:59	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 14:30
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2210326-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 23:21	
Benzene	ND U	5.0	1	11/03/22 23:21	
Bromodichloromethane	ND U	5.0	1	11/03/22 23:21	
Bromoform	ND U	5.0	1	11/03/22 23:21	
Bromomethane	ND U	5.0	1	11/03/22 23:21	
2-Butanone (MEK)	ND U	10	1	11/03/22 23:21	
Carbon Disulfide	ND U	10	1	11/03/22 23:21	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 23:21	
Chlorobenzene	ND U	5.0	1	11/03/22 23:21	
Chloroethane	ND U	5.0	1	11/03/22 23:21	
Chloroform	ND U	5.0	1	11/03/22 23:21	
Chloromethane	ND U	5.0	1	11/03/22 23:21	
Dibromochloromethane	ND U	5.0	1	11/03/22 23:21	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 23:21	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 23:21	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 23:21	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/22 23:21	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 23:21	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 23:21	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 23:21	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 23:21	
Ethylbenzene	ND U	5.0	1	11/03/22 23:21	
2-Hexanone	ND U	10	1	11/03/22 23:21	
Methylene Chloride	ND U	5.0	1	11/03/22 23:21	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 23:21	
Styrene	ND U	5.0	1	11/03/22 23:21	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 23:21	
Tetrachloroethene	ND U	5.0	1	11/03/22 23:21	
Toluene	ND U	5.0	1	11/03/22 23:21	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 23:21	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 23:21	
Trichloroethene	**6.6**	5.0	1	11/03/22 23:21	
Vinyl Chloride	ND U	5.0	1	11/03/22 23:21	
o-Xylene	ND U	5.0	1	11/03/22 23:21	
m,p-Xylenes	ND U	5.0	1	11/03/22 23:21	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 14:30
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2210326-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	11/03/22 23:21	
Toluene-d8	99	87 - 121	11/03/22 23:21	
Dibromofluoromethane	99	80 - 116	11/03/22 23:21	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 14:00
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2210326-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 23:43	
Benzene	ND U	5.0	1	11/03/22 23:43	
Bromodichloromethane	ND U	5.0	1	11/03/22 23:43	
Bromoform	ND U	5.0	1	11/03/22 23:43	
Bromomethane	ND U	5.0	1	11/03/22 23:43	
2-Butanone (MEK)	ND U	10	1	11/03/22 23:43	
Carbon Disulfide	ND U	10	1	11/03/22 23:43	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 23:43	
Chlorobenzene	ND U	5.0	1	11/03/22 23:43	
Chloroethane	ND U	5.0	1	11/03/22 23:43	
Chloroform	ND U	5.0	1	11/03/22 23:43	
Chloromethane	ND U	5.0	1	11/03/22 23:43	
Dibromochloromethane	ND U	5.0	1	11/03/22 23:43	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 23:43	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 23:43	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 23:43	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/22 23:43	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 23:43	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 23:43	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 23:43	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 23:43	
Ethylbenzene	ND U	5.0	1	11/03/22 23:43	
2-Hexanone	ND U	10	1	11/03/22 23:43	
Methylene Chloride	ND U	5.0	1	11/03/22 23:43	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 23:43	
Styrene	ND U	5.0	1	11/03/22 23:43	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 23:43	
Tetrachloroethene	ND U	5.0	1	11/03/22 23:43	
Toluene	ND U	5.0	1	11/03/22 23:43	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 23:43	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 23:43	
Trichloroethene	ND U	5.0	1	11/03/22 23:43	
Vinyl Chloride	ND U	5.0	1	11/03/22 23:43	
o-Xylene	ND U	5.0	1	11/03/22 23:43	
m,p-Xylenes	ND U	5.0	1	11/03/22 23:43	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22 14:00
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2210326-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/03/22 23:43	
Toluene-d8	100	87 - 121	11/03/22 23:43	
Dibromofluoromethane	99	80 - 116	11/03/22 23:43	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2210326-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/04/22 00:04	
Benzene	ND U	5.0	1	11/04/22 00:04	
Bromodichloromethane	ND U	5.0	1	11/04/22 00:04	
Bromoform	ND U	5.0	1	11/04/22 00:04	
Bromomethane	ND U	5.0	1	11/04/22 00:04	
2-Butanone (MEK)	ND U	10	1	11/04/22 00:04	
Carbon Disulfide	ND U	10	1	11/04/22 00:04	
Carbon Tetrachloride	ND U	5.0	1	11/04/22 00:04	
Chlorobenzene	ND U	5.0	1	11/04/22 00:04	
Chloroethane	ND U	5.0	1	11/04/22 00:04	
Chloroform	ND U	5.0	1	11/04/22 00:04	
Chloromethane	ND U	5.0	1	11/04/22 00:04	
Dibromochloromethane	ND U	5.0	1	11/04/22 00:04	
1,1-Dichloroethane	ND U	5.0	1	11/04/22 00:04	
1,2-Dichloroethane	ND U	5.0	1	11/04/22 00:04	
1,1-Dichloroethene	ND U	5.0	1	11/04/22 00:04	
cis-1,2-Dichloroethene	ND U	5.0	1	11/04/22 00:04	
trans-1,2-Dichloroethene	ND U	5.0	1	11/04/22 00:04	
1,2-Dichloropropane	ND U	5.0	1	11/04/22 00:04	
cis-1,3-Dichloropropene	ND U	5.0	1	11/04/22 00:04	
trans-1,3-Dichloropropene	ND U	5.0	1	11/04/22 00:04	
Ethylbenzene	ND U	5.0	1	11/04/22 00:04	
2-Hexanone	ND U	10	1	11/04/22 00:04	
Methylene Chloride	ND U	5.0	1	11/04/22 00:04	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/04/22 00:04	
Styrene	ND U	5.0	1	11/04/22 00:04	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/04/22 00:04	
Tetrachloroethene	ND U	5.0	1	11/04/22 00:04	
Toluene	ND U	5.0	1	11/04/22 00:04	
1,1,1-Trichloroethane	ND U	5.0	1	11/04/22 00:04	
1,1,2-Trichloroethane	ND U	5.0	1	11/04/22 00:04	
Trichloroethene	ND U	5.0	1	11/04/22 00:04	
Vinyl Chloride	ND U	5.0	1	11/04/22 00:04	
o-Xylene	ND U	5.0	1	11/04/22 00:04	
m,p-Xylenes	ND U	5.0	1	11/04/22 00:04	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	10/26/22
Sample Matrix:	Water	**Date Received:**	10/27/22 08:12
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2210326-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	11/04/22 00:04	
Toluene-d8	99	87 - 121	11/04/22 00:04	
Dibromofluoromethane	100	80 - 116	11/04/22 00:04	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210326
Project: Crosman/30005202
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Toluene-d8 87-121	Dibromofluoromethane 80-116
MW-4	R2210326-001	98	99	100
MW-5	R2210326-002	98	99	100
MW-13	R2210326-003	98	99	99
MW-14	R2210326-004	97	99	99
MW-15	R2210326-005	98	100	99
Trip Blank	R2210326-006	99	99	100
Method Blank	RQ2213820-04	98	99	101
Lab Control Sample	RQ2213820-03	101	100	100

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2213820-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/03/22 18:59	
Benzene	ND U	5.0	1	11/03/22 18:59	
Bromodichloromethane	ND U	5.0	1	11/03/22 18:59	
Bromoform	ND U	5.0	1	11/03/22 18:59	
Bromomethane	ND U	5.0	1	11/03/22 18:59	
2-Butanone (MEK)	ND U	10	1	11/03/22 18:59	
Carbon Disulfide	ND U	10	1	11/03/22 18:59	
Carbon Tetrachloride	ND U	5.0	1	11/03/22 18:59	
Chlorobenzene	ND U	5.0	1	11/03/22 18:59	
Chloroethane	ND U	5.0	1	11/03/22 18:59	
Chloroform	ND U	5.0	1	11/03/22 18:59	
Chloromethane	ND U	5.0	1	11/03/22 18:59	
Dibromochloromethane	ND U	5.0	1	11/03/22 18:59	
1,1-Dichloroethane	ND U	5.0	1	11/03/22 18:59	
1,2-Dichloroethane	ND U	5.0	1	11/03/22 18:59	
1,1-Dichloroethene	ND U	5.0	1	11/03/22 18:59	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/22 18:59	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/22 18:59	
1,2-Dichloropropane	ND U	5.0	1	11/03/22 18:59	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/22 18:59	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/22 18:59	
Ethylbenzene	ND U	5.0	1	11/03/22 18:59	
2-Hexanone	ND U	10	1	11/03/22 18:59	
Methylene Chloride	ND U	5.0	1	11/03/22 18:59	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/22 18:59	
Styrene	ND U	5.0	1	11/03/22 18:59	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/22 18:59	
Tetrachloroethene	ND U	5.0	1	11/03/22 18:59	
Toluene	ND U	5.0	1	11/03/22 18:59	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/22 18:59	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/22 18:59	
Trichloroethene	ND U	5.0	1	11/03/22 18:59	
Vinyl Chloride	ND U	5.0	1	11/03/22 18:59	
o-Xylene	ND U	5.0	1	11/03/22 18:59	
m,p-Xylenes	ND U	5.0	1	11/03/22 18:59	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210326
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2213820-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/03/22 18:59	
Toluene-d8	99	87 - 121	11/03/22 18:59	
Dibromofluoromethane	101	80 - 116	11/03/22 18:59	

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210326
Project: Crosman/30005202 **Date Analyzed:** 11/03/22
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213820-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	18.6	20.0	93	40-161
Benzene	8260C	20.3	20.0	101	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	24.4	20.0	122	65-146
Bromomethane	8260C	19.2	20.0	96	42-166
2-Butanone (MEK)	8260C	18.2	20.0	91	61-137
Carbon Disulfide	8260C	17.8	20.0	89	66-128
Carbon Tetrachloride	8260C	21.7	20.0	109	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	18.1	20.0	91	62-131
Chloroform	8260C	18.6	20.0	93	79-120
Chloromethane	8260C	16.1	20.0	81	65-135
Dibromochloromethane	8260C	22.6	20.0	113	72-128
1,1-Dichloroethane	8260C	19.1	20.0	96	80-124
1,2-Dichloroethane	8260C	21.0	20.0	105	71-127
1,1-Dichloroethene	8260C	19.3	20.0	96	71-118
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
trans-1,2-Dichloroethene	8260C	19.3	20.0	96	73-118
1,2-Dichloropropane	8260C	20.6	20.0	103	80-119
cis-1,3-Dichloropropene	8260C	22.5	20.0	113	77-122
trans-1,3-Dichloropropene	8260C	23.5	20.0	118	71-133
Ethylbenzene	8260C	22.0	20.0	110	76-120
2-Hexanone	8260C	22.2	20.0	111	63-124
Methylene Chloride	8260C	19.0	20.0	95	73-122
4-Methyl-2-pentanone (MIBK)	8260C	20.9	20.0	104	66-124
Styrene	8260C	22.9	20.0	115	80-124
1,1,2,2-Tetrachloroethane	8260C	22.1	20.0	111	78-126
Tetrachloroethene	8260C	22.5	20.0	112	72-125
Toluene	8260C	20.9	20.0	104	79-119
1,1,1-Trichloroethane	8260C	19.6	20.0	98	75-125
1,1,2-Trichloroethane	8260C	21.7	20.0	108	82-121
Trichloroethene	8260C	20.5	20.0	103	74-122
Vinyl Chloride	8260C	14.5	20.0	73 *	74-159

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2210326
Date Analyzed: 11/03/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213820-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	22.0	20.0	110	79-123
m,p-Xylenes	8260C	45.1	40.0	113	80-126

November 17, 2022 Service Request No:R2210655

Mr. Aaron Richardson
ARCADIS of New York, Inc.
295 Woodcliff Drive
Third Floor, Suite 301
Fairport, NY 14450

Laboratory Results for: Crosman

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory November 03, 2022
For your reference, these analyses have been assigned our service request number **R2210655.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210655
Project: Crosman **Date Received:** 11/03/2022
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/03/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/17/2022

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PW-1			Lab ID: R2210655-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	35			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:**R2210655
Project: Crosman/30005202

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2210655-001	PW-1	11/3/2022	0900

Chain of Custody / Analytical Request Form

67354

SR#:

Page of

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Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: ARCADIS	Project Name: CROSMAN
Contact: AARON RICHARDSON	Project Number: 30005202
Email: AARON.RICHARDSON@ARCADIS.COM	ALS Quote #:
Phone: 585-662-4024	Sampler's Signature:
Address:	Email CC:
	Email CC:
	State Samples Collected (Circle or Write): (NY) MA, PA, CT, Other:

Preservative: J

Lab ID (ALS)	Sample Collection Information: Sample ID:	Date	Time	Matrix (GW WW SW DW S L NA)	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	~~FB~~ PW-1	11/3/22	0900	GW			X							

0. None
1. HCl
2. HNO3
3. H2SO4
4. NAOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

Special Instructions / Comments:

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
_X_ Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
____Tier IV/Cat B - Data Validation Report w/. Data
EDD: ____Yes ____No
EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (X Same as Report To)

PO #:
Company:
Contact:
Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	AARON RICHARDSON	Gregory P. Esmerian				
Company	ARCADIS	ALS				
Date/Time	11/3/22 1600	11/3/22 16:02				

R2210655 5
ARCADIS of New York, Inc.
Crosman

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

Project/Client Arcadis Folder Number

Cooler received on 11/3/22 by: TC

COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 11/3/22 Time: 16:04 ID: IR#7 (IR#11) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	8.9	10.4					
Within 0-6°C?	Y N	Y (N)	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) (Same Day Rule)

&Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: R-002 by TC on 11/3/22 at 16:09
5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/4/22 Time: 12:25 by: ek

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	61321	2k5				

Bottle lot numbers: 050922-3AXH

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: LL

PC Secondary Review: JMS 11/9/22

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210655
Project:	Crosman/30005202		

Sample Name:	PW-1	**Date Collected:**	11/3/22
Lab Code:	R2210655-001	**Date Received:**	11/3/22
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210655
Project:	Crosman/30005202	**Date Collected:**	11/03/22 09:00
Sample Matrix:	Water	**Date Received:**	11/03/22 16:02
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2210655-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/15/22 05:06	
Benzene	ND U	5.0	1	11/15/22 05:06	
Bromodichloromethane	ND U	5.0	1	11/15/22 05:06	
Bromoform	ND U	5.0	1	11/15/22 05:06	
Bromomethane	ND U	5.0	1	11/15/22 05:06	
2-Butanone (MEK)	ND U	10	1	11/15/22 05:06	
Carbon Disulfide	ND U	10	1	11/15/22 05:06	
Carbon Tetrachloride	ND U	5.0	1	11/15/22 05:06	
Chlorobenzene	ND U	5.0	1	11/15/22 05:06	
Chloroethane	ND U	5.0	1	11/15/22 05:06	
Chloroform	ND U	5.0	1	11/15/22 05:06	
Chloromethane	ND U	5.0	1	11/15/22 05:06	
Dibromochloromethane	ND U	5.0	1	11/15/22 05:06	
1,1-Dichloroethane	ND U	5.0	1	11/15/22 05:06	
1,2-Dichloroethane	ND U	5.0	1	11/15/22 05:06	
1,1-Dichloroethene	ND U	5.0	1	11/15/22 05:06	
cis-1,2-Dichloroethene	ND U	5.0	1	11/15/22 05:06	
trans-1,2-Dichloroethene	ND U	5.0	1	11/15/22 05:06	
1,2-Dichloropropane	ND U	5.0	1	11/15/22 05:06	
cis-1,3-Dichloropropene	ND U	5.0	1	11/15/22 05:06	
trans-1,3-Dichloropropene	ND U	5.0	1	11/15/22 05:06	
Ethylbenzene	ND U	5.0	1	11/15/22 05:06	
2-Hexanone	ND U	10	1	11/15/22 05:06	
Methylene Chloride	ND U	5.0	1	11/15/22 05:06	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/15/22 05:06	
Styrene	ND U	5.0	1	11/15/22 05:06	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/15/22 05:06	
Tetrachloroethene	ND U	5.0	1	11/15/22 05:06	
Toluene	ND U	5.0	1	11/15/22 05:06	
1,1,1-Trichloroethane	ND U	5.0	1	11/15/22 05:06	
1,1,2-Trichloroethane	ND U	5.0	1	11/15/22 05:06	
Trichloroethene	**35**	5.0	1	11/15/22 05:06	
Vinyl Chloride	ND U	5.0	1	11/15/22 05:06	
o-Xylene	ND U	5.0	1	11/15/22 05:06	
m,p-Xylenes	ND U	5.0	1	11/15/22 05:06	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210655
Project:	Crosman/30005202	**Date Collected:**	11/03/22 09:00
Sample Matrix:	Water	**Date Received:**	11/03/22 16:02
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2210655-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	11/15/22 05:06	
Toluene-d8	99	87 - 121	11/15/22 05:06	
Dibromofluoromethane	105	80 - 116	11/15/22 05:06	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2210655
Project: Crosman/30005202
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Toluene-d8 87-121	Dibromofluoromethane 80-116
PW-1	R2210655-001	104	99	105
Method Blank	RQ2214359-04	106	100	106
Lab Control Sample	RQ2214359-03	105	100	106

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210655
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2214359-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	11/15/22 00:38	
Benzene	ND U	5.0	1	11/15/22 00:38	
Bromodichloromethane	ND U	5.0	1	11/15/22 00:38	
Bromoform	ND U	5.0	1	11/15/22 00:38	
Bromomethane	ND U	5.0	1	11/15/22 00:38	
2-Butanone (MEK)	ND U	10	1	11/15/22 00:38	
Carbon Disulfide	ND U	10	1	11/15/22 00:38	
Carbon Tetrachloride	ND U	5.0	1	11/15/22 00:38	
Chlorobenzene	ND U	5.0	1	11/15/22 00:38	
Chloroethane	ND U	5.0	1	11/15/22 00:38	
Chloroform	ND U	5.0	1	11/15/22 00:38	
Chloromethane	ND U	5.0	1	11/15/22 00:38	
Dibromochloromethane	ND U	5.0	1	11/15/22 00:38	
1,1-Dichloroethane	ND U	5.0	1	11/15/22 00:38	
1,2-Dichloroethane	ND U	5.0	1	11/15/22 00:38	
1,1-Dichloroethene	ND U	5.0	1	11/15/22 00:38	
cis-1,2-Dichloroethene	ND U	5.0	1	11/15/22 00:38	
trans-1,2-Dichloroethene	ND U	5.0	1	11/15/22 00:38	
1,2-Dichloropropane	ND U	5.0	1	11/15/22 00:38	
cis-1,3-Dichloropropene	ND U	5.0	1	11/15/22 00:38	
trans-1,3-Dichloropropene	ND U	5.0	1	11/15/22 00:38	
Ethylbenzene	ND U	5.0	1	11/15/22 00:38	
2-Hexanone	ND U	10	1	11/15/22 00:38	
Methylene Chloride	ND U	5.0	1	11/15/22 00:38	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/15/22 00:38	
Styrene	ND U	5.0	1	11/15/22 00:38	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/15/22 00:38	
Tetrachloroethene	ND U	5.0	1	11/15/22 00:38	
Toluene	ND U	5.0	1	11/15/22 00:38	
1,1,1-Trichloroethane	ND U	5.0	1	11/15/22 00:38	
1,1,2-Trichloroethane	ND U	5.0	1	11/15/22 00:38	
Trichloroethene	ND U	5.0	1	11/15/22 00:38	
Vinyl Chloride	ND U	5.0	1	11/15/22 00:38	
o-Xylene	ND U	5.0	1	11/15/22 00:38	
m,p-Xylenes	ND U	5.0	1	11/15/22 00:38	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2210655
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2214359-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	11/15/22 00:38	
Toluene-d8	100	87 - 121	11/15/22 00:38	
Dibromofluoromethane	106	80 - 116	11/15/22 00:38	

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2210655
Date Analyzed: 11/14/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2214359-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	18.7	20.0	94	40-161
Benzene	8260C	21.0	20.0	105	79-119
Bromodichloromethane	8260C	21.3	20.0	107	81-123
Bromoform	8260C	20.9	20.0	105	65-146
Bromomethane	8260C	18.5	20.0	92	42-166
2-Butanone (MEK)	8260C	16.6	20.0	83	61-137
Carbon Disulfide	8260C	16.2	20.0	81	66-128
Carbon Tetrachloride	8260C	23.6	20.0	118	70-127
Chlorobenzene	8260C	20.7	20.0	103	80-121
Chloroethane	8260C	16.2	20.0	81	62-131
Chloroform	8260C	20.7	20.0	103	79-120
Chloromethane	8260C	20.7	20.0	104	65-135
Dibromochloromethane	8260C	22.0	20.0	110	72-128
1,1-Dichloroethane	8260C	20.1	20.0	100	80-124
1,2-Dichloroethane	8260C	23.1	20.0	116	71-127
1,1-Dichloroethene	8260C	21.1	20.0	105	71-118
cis-1,2-Dichloroethene	8260C	20.4	20.0	102	80-121
trans-1,2-Dichloroethene	8260C	20.4	20.0	102	73-118
1,2-Dichloropropane	8260C	19.3	20.0	96	80-119
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	77-122
trans-1,3-Dichloropropene	8260C	21.8	20.0	109	71-133
Ethylbenzene	8260C	21.8	20.0	109	76-120
2-Hexanone	8260C	18.2	20.0	91	63-124
Methylene Chloride	8260C	18.9	20.0	94	73-122
4-Methyl-2-pentanone (MIBK)	8260C	18.7	20.0	93	66-124
Styrene	8260C	22.8	20.0	114	80-124
1,1,2,2-Tetrachloroethane	8260C	19.0	20.0	95	78-126
Tetrachloroethene	8260C	23.9	20.0	119	72-125
Toluene	8260C	21.6	20.0	108	79-119
1,1,1-Trichloroethane	8260C	21.5	20.0	107	75-125
1,1,2-Trichloroethane	8260C	22.2	20.0	111	82-121
Trichloroethene	8260C	22.9	20.0	115	74-122
Vinyl Chloride	8260C	14.9	20.0	74	74-159

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2210655
Date Analyzed: 11/14/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2214359-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	22.1	20.0	110	79-123
m,p-Xylenes	8260C	44.5	40.0	111	80-126

April 19, 2023 Service Request No:R2302977

Mr. Aaron Richardson
ARCADIS
100 Chestnut St., Suite 100
Rochester, NY 14604

Laboratory Results for: Crosman

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory April 07, 2023
For your reference, these analyses have been assigned our service request number **R2302977.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2302977
Project: Crosman **Date Received:** 04/07/2023
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 04/07/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 04/19/2023

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-5			Lab ID: R2302977-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	22			5.0	ug/L	8260C

CLIENT ID: PW-1			Lab ID: R2302977-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	19			5.0	ug/L	8260C

CLIENT ID: MW-3A			Lab ID: R2302977-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	46			5.0	ug/L	8260C

CLIENT ID: MW-13			Lab ID: R2302977-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	96			5.0	ug/L	8260C

CLIENT ID: MW-17			Lab ID: R2302977-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	230			13	ug/L	8260C

CLIENT ID: MW-20			Lab ID: R2302977-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene	23			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:**R2302977
Project: Crosman/30005202

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2302977-001	PW-1	4/7/2023	1050
R2302977-002	MW-3A	4/7/2023	0930
R2302977-003	MW-4	4/7/2023	1125
R2302977-004	MW-5	4/7/2023	1135
R2302977-005	MW-13	4/7/2023	0950
R2302977-006	MW-14	4/7/2023	1150
R2302977-007	MW-15	4/7/2023	1110
R2302977-008	MW-17	4/7/2023	0915
R2302977-009	MW-18	4/7/2023	1000
R2302977-010	MW-19	4/7/2023	1030
R2302977-011	MW-20	4/7/2023	0845
R2302977-012	Trip Blank	4/7/2023	

ALS Environmental

1565 Jefferson Rd, Bldg 300 Ste 360, Rochester, NY 146 585-288-5380 FAX 585-288-8475

SR# _____

Project Name: Crosman **Project Number:** 30005202

Project Manager: Aaron Richardson **Company:** Arcadis of New York, Inc.

Company/Address: 100 Chestnut Street **Phone:** 585-662-4057

City, State, Zip: Rochester, NY 14604 **Email:** Aaron.Richardson@Arcadis.com

Sampler's Name and Signature:

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: VOCs										REMARKS
PW-1	4/7/2023	~~1050~~ 1050		GW	3	X										
MW-3A	4/7/2023	0930		GW	3	X										
MW-4	4/7/2023	1125		GW	3	X										
MW-5	4/7/2023	1135		GW	3	X										
MW-13	4/7/2023	0950		GW	3	X										
MW-14	4/7/2023	1150		GW	3	X										
MW-15	4/7/2023	1110		GW	3	X										
MW-17	4/7/2023	0915		GW	3	X										
MW-18	4/7/2023	1000		GW	3	X										
MW-19	4/7/2023	1030		GW	3	X										
MW-20	4/7/2023	0845		GW	3	X										
TRIP BLANK	--	--		W	3	X										

URNAROUND REQUIREMENTS

_____ 24 hr* _____ 48 hr* _____3BD* _____ 5 BD*

* RUSH TAT additional surcharges apply

X Standard (10 BD)

Requested Report Date:_____

Invoice Information

P.O. # _____

Bill to: _____

REPORT REQUIREMENTS

_____ I. Routine Report: Results and Method Blank (Surrogate, as required)

_____ II. Results w/ QC (Dup., MS, MSD as req)

_____ III. Results (with QC and Calibration Summaries)

X IV. ASP-B Package

_____ EDD?

EDD Type:

Comments/Special Instructions:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kaitlyn Fleming	Signature: Sarah Schwartzbauer	Signature:	Signature:
Printed Name: Kaitlyn Fleming	Printed Name: Sarah Schwartzbauer	Printed Name:	Printed Name:
Firm: Arcadis	Firm: ALS	Firm:	Firm:
Date/Time: 4/7/2023 \ 1430	Date/Time: 4/7/23 1430	Date/Time:	Date/Ti

R2302977 5
ARCADIS
Crosman

R2302977 5
ARCADIS
Crosman

Cooler Receipt and Preservation Check F

Project/Client Crosman Folder Number

Cooler received on 4/7/23 by: SES COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	Y N	7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 4/7/23 Time: 1436 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	15.3						
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y. N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by SES on 4/7/23 at 1440
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 4/10/23 Time: 0825 by: JE

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	61321	06/25				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 062022-3AXH, 103122-3AXH

Explain all Discrepancies/ Other Comments:

HCl Lot also: 22080153 exp: 06/25

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: JE
PC Secondary Review: JMS 4/11/23 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

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www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2302977
Project: Crosman/30005202

Sample Name: PW-1 **Date Collected:** 04/7/23
Lab Code: R2302977-001 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-3A **Date Collected:** 04/7/23
Lab Code: R2302977-002 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-4 **Date Collected:** 04/7/23
Lab Code: R2302977-003 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-5 **Date Collected:** 04/7/23
Lab Code: R2302977-004 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-13 **Date Collected:** 04/7/23
Lab Code: R2302977-005 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2302977
Project: Crosman/30005202

Sample Name: MW-14 **Date Collected:** 04/7/23
Lab Code: R2302977-006 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-15 **Date Collected:** 04/7/23
Lab Code: R2302977-007 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-17 **Date Collected:** 04/7/23
Lab Code: R2302977-008 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-18 **Date Collected:** 04/7/23
Lab Code: R2302977-009 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-19 **Date Collected:** 04/7/23
Lab Code: R2302977-010 **Date Received:** 04/7/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202		

Sample Name:	MW-20	**Date Collected:**	04/7/23
Lab Code:	R2302977-011	**Date Received:**	04/7/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	Trip Blank	**Date Collected:**	04/7/23
Lab Code:	R2302977-012	**Date Received:**	04/7/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2302977-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 03:38	
Benzene	ND U	5.0	1	04/13/23 03:38	
Bromodichloromethane	ND U	5.0	1	04/13/23 03:38	
Bromoform	ND U	5.0	1	04/13/23 03:38	
Bromomethane	ND U	5.0	1	04/13/23 03:38	
2-Butanone (MEK)	ND U	10	1	04/13/23 03:38	
Carbon Disulfide	ND U	10	1	04/13/23 03:38	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 03:38	
Chlorobenzene	ND U	5.0	1	04/13/23 03:38	
Chloroethane	ND U	5.0	1	04/13/23 03:38	
Chloroform	ND U	5.0	1	04/13/23 03:38	
Chloromethane	ND U	5.0	1	04/13/23 03:38	
Dibromochloromethane	ND U	5.0	1	04/13/23 03:38	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 03:38	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 03:38	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 03:38	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 03:38	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 03:38	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 03:38	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 03:38	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 03:38	
Ethylbenzene	ND U	5.0	1	04/13/23 03:38	
2-Hexanone	ND U	10	1	04/13/23 03:38	
Methylene Chloride	ND U	5.0	1	04/13/23 03:38	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 03:38	
Styrene	ND U	5.0	1	04/13/23 03:38	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 03:38	
Tetrachloroethene	ND U	5.0	1	04/13/23 03:38	
Toluene	ND U	5.0	1	04/13/23 03:38	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 03:38	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 03:38	
Trichloroethene	**19**	5.0	1	04/13/23 03:38	
Vinyl Chloride	ND U	5.0	1	04/13/23 03:38	
o-Xylene	ND U	5.0	1	04/13/23 03:38	
m,p-Xylenes	ND U	5.0	1	04/13/23 03:38	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	PW-1	**Units:**	ug/L
Lab Code:	R2302977-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/13/23 03:38	
Toluene-d8	102	87 - 121	04/13/23 03:38	
Dibromofluoromethane	96	80 - 116	04/13/23 03:38	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:30
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	R2302977-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 17:17	
Benzene	ND U	5.0	1	04/13/23 17:17	
Bromodichloromethane	ND U	5.0	1	04/13/23 17:17	
Bromoform	ND U	5.0	1	04/13/23 17:17	
Bromomethane	ND U	5.0	1	04/13/23 17:17	
2-Butanone (MEK)	ND U	10	1	04/13/23 17:17	
Carbon Disulfide	ND U	10	1	04/13/23 17:17	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 17:17	
Chlorobenzene	ND U	5.0	1	04/13/23 17:17	
Chloroethane	ND U	5.0	1	04/13/23 17:17	
Chloroform	ND U	5.0	1	04/13/23 17:17	
Chloromethane	ND U	5.0	1	04/13/23 17:17	
Dibromochloromethane	ND U	5.0	1	04/13/23 17:17	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 17:17	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 17:17	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 17:17	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 17:17	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 17:17	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 17:17	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 17:17	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 17:17	
Ethylbenzene	ND U	5.0	1	04/13/23 17:17	
2-Hexanone	ND U	10	1	04/13/23 17:17	
Methylene Chloride	ND U	5.0	1	04/13/23 17:17	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 17:17	
Styrene	ND U	5.0	1	04/13/23 17:17	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 17:17	
Tetrachloroethene	ND U	5.0	1	04/13/23 17:17	
Toluene	ND U	5.0	1	04/13/23 17:17	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 17:17	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 17:17	
Trichloroethene	**46**	5.0	1	04/13/23 17:17	
Vinyl Chloride	ND U	5.0	1	04/13/23 17:17	
o-Xylene	ND U	5.0	1	04/13/23 17:17	
m,p-Xylenes	ND U	5.0	1	04/13/23 17:17	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:30
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-3A	**Units:**	ug/L
Lab Code:	R2302977-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	04/13/23 17:17	
Toluene-d8	102	87 - 121	04/13/23 17:17	
Dibromofluoromethane	103	80 - 116	04/13/23 17:17	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:25
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2302977-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 04:23	
Benzene	ND U	5.0	1	04/13/23 04:23	
Bromodichloromethane	ND U	5.0	1	04/13/23 04:23	
Bromoform	ND U	5.0	1	04/13/23 04:23	
Bromomethane	ND U	5.0	1	04/13/23 04:23	
2-Butanone (MEK)	ND U	10	1	04/13/23 04:23	
Carbon Disulfide	ND U	10	1	04/13/23 04:23	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 04:23	
Chlorobenzene	ND U	5.0	1	04/13/23 04:23	
Chloroethane	ND U	5.0	1	04/13/23 04:23	
Chloroform	ND U	5.0	1	04/13/23 04:23	
Chloromethane	ND U	5.0	1	04/13/23 04:23	
Dibromochloromethane	ND U	5.0	1	04/13/23 04:23	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 04:23	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 04:23	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 04:23	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 04:23	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 04:23	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 04:23	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 04:23	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 04:23	
Ethylbenzene	ND U	5.0	1	04/13/23 04:23	
2-Hexanone	ND U	10	1	04/13/23 04:23	
Methylene Chloride	ND U	5.0	1	04/13/23 04:23	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 04:23	
Styrene	ND U	5.0	1	04/13/23 04:23	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 04:23	
Tetrachloroethene	ND U	5.0	1	04/13/23 04:23	
Toluene	ND U	5.0	1	04/13/23 04:23	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 04:23	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 04:23	
Trichloroethene	ND U	5.0	1	04/13/23 04:23	
Vinyl Chloride	ND U	5.0	1	04/13/23 04:23	
o-Xylene	ND U	5.0	1	04/13/23 04:23	
m,p-Xylenes	ND U	5.0	1	04/13/23 04:23	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:25
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2302977-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/13/23 04:23	
Toluene-d8	102	87 - 121	04/13/23 04:23	
Dibromofluoromethane	96	80 - 116	04/13/23 04:23	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:35
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2302977-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 04:45	
Benzene	ND U	5.0	1	04/13/23 04:45	
Bromodichloromethane	ND U	5.0	1	04/13/23 04:45	
Bromoform	ND U	5.0	1	04/13/23 04:45	
Bromomethane	ND U	5.0	1	04/13/23 04:45	
2-Butanone (MEK)	ND U	10	1	04/13/23 04:45	
Carbon Disulfide	ND U	10	1	04/13/23 04:45	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 04:45	
Chlorobenzene	ND U	5.0	1	04/13/23 04:45	
Chloroethane	ND U	5.0	1	04/13/23 04:45	
Chloroform	ND U	5.0	1	04/13/23 04:45	
Chloromethane	ND U	5.0	1	04/13/23 04:45	
Dibromochloromethane	ND U	5.0	1	04/13/23 04:45	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 04:45	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 04:45	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 04:45	
cis-1,2-Dichloroethene	**22**	5.0	1	04/13/23 04:45	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 04:45	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 04:45	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 04:45	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 04:45	
Ethylbenzene	ND U	5.0	1	04/13/23 04:45	
2-Hexanone	ND U	10	1	04/13/23 04:45	
Methylene Chloride	ND U	5.0	1	04/13/23 04:45	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 04:45	
Styrene	ND U	5.0	1	04/13/23 04:45	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 04:45	
Tetrachloroethene	ND U	5.0	1	04/13/23 04:45	
Toluene	ND U	5.0	1	04/13/23 04:45	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 04:45	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 04:45	
Trichloroethene	ND U	5.0	1	04/13/23 04:45	
Vinyl Chloride	ND U	5.0	1	04/13/23 04:45	
o-Xylene	ND U	5.0	1	04/13/23 04:45	
m,p-Xylenes	ND U	5.0	1	04/13/23 04:45	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:35
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2302977-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/13/23 04:45	
Toluene-d8	101	87 - 121	04/13/23 04:45	
Dibromofluoromethane	95	80 - 116	04/13/23 04:45	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2302977-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 05:07	
Benzene	ND U	5.0	1	04/13/23 05:07	
Bromodichloromethane	ND U	5.0	1	04/13/23 05:07	
Bromoform	ND U	5.0	1	04/13/23 05:07	
Bromomethane	ND U	5.0	1	04/13/23 05:07	
2-Butanone (MEK)	ND U	10	1	04/13/23 05:07	
Carbon Disulfide	ND U	10	1	04/13/23 05:07	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 05:07	
Chlorobenzene	ND U	5.0	1	04/13/23 05:07	
Chloroethane	ND U	5.0	1	04/13/23 05:07	
Chloroform	ND U	5.0	1	04/13/23 05:07	
Chloromethane	ND U	5.0	1	04/13/23 05:07	
Dibromochloromethane	ND U	5.0	1	04/13/23 05:07	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 05:07	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 05:07	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 05:07	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:07	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:07	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 05:07	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:07	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:07	
Ethylbenzene	ND U	5.0	1	04/13/23 05:07	
2-Hexanone	ND U	10	1	04/13/23 05:07	
Methylene Chloride	ND U	5.0	1	04/13/23 05:07	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 05:07	
Styrene	ND U	5.0	1	04/13/23 05:07	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 05:07	
Tetrachloroethene	ND U	5.0	1	04/13/23 05:07	
Toluene	ND U	5.0	1	04/13/23 05:07	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 05:07	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 05:07	
Trichloroethene	**96**	5.0	1	04/13/23 05:07	
Vinyl Chloride	ND U	5.0	1	04/13/23 05:07	
o-Xylene	ND U	5.0	1	04/13/23 05:07	
m,p-Xylenes	ND U	5.0	1	04/13/23 05:07	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2302977-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	04/13/23 05:07	
Toluene-d8	103	87 - 121	04/13/23 05:07	
Dibromofluoromethane	96	80 - 116	04/13/23 05:07	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2302977-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 05:30	
Benzene	ND U	5.0	1	04/13/23 05:30	
Bromodichloromethane	ND U	5.0	1	04/13/23 05:30	
Bromoform	ND U	5.0	1	04/13/23 05:30	
Bromomethane	ND U	5.0	1	04/13/23 05:30	
2-Butanone (MEK)	ND U	10	1	04/13/23 05:30	
Carbon Disulfide	ND U	10	1	04/13/23 05:30	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 05:30	
Chlorobenzene	ND U	5.0	1	04/13/23 05:30	
Chloroethane	ND U	5.0	1	04/13/23 05:30	
Chloroform	ND U	5.0	1	04/13/23 05:30	
Chloromethane	ND U	5.0	1	04/13/23 05:30	
Dibromochloromethane	ND U	5.0	1	04/13/23 05:30	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 05:30	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 05:30	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 05:30	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:30	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:30	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 05:30	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:30	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:30	
Ethylbenzene	ND U	5.0	1	04/13/23 05:30	
2-Hexanone	ND U	10	1	04/13/23 05:30	
Methylene Chloride	ND U	5.0	1	04/13/23 05:30	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 05:30	
Styrene	ND U	5.0	1	04/13/23 05:30	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 05:30	
Tetrachloroethene	ND U	5.0	1	04/13/23 05:30	
Toluene	ND U	5.0	1	04/13/23 05:30	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 05:30	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 05:30	
Trichloroethene	ND U	5.0	1	04/13/23 05:30	
Vinyl Chloride	ND U	5.0	1	04/13/23 05:30	
o-Xylene	ND U	5.0	1	04/13/23 05:30	
m,p-Xylenes	ND U	5.0	1	04/13/23 05:30	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:50
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2302977-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	04/13/23 05:30	
Toluene-d8	102	87 - 121	04/13/23 05:30	
Dibromofluoromethane	95	80 - 116	04/13/23 05:30	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:10
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2302977-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 05:52	
Benzene	ND U	5.0	1	04/13/23 05:52	
Bromodichloromethane	ND U	5.0	1	04/13/23 05:52	
Bromoform	ND U	5.0	1	04/13/23 05:52	
Bromomethane	ND U	5.0	1	04/13/23 05:52	
2-Butanone (MEK)	ND U	10	1	04/13/23 05:52	
Carbon Disulfide	ND U	10	1	04/13/23 05:52	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 05:52	
Chlorobenzene	ND U	5.0	1	04/13/23 05:52	
Chloroethane	ND U	5.0	1	04/13/23 05:52	
Chloroform	ND U	5.0	1	04/13/23 05:52	
Chloromethane	ND U	5.0	1	04/13/23 05:52	
Dibromochloromethane	ND U	5.0	1	04/13/23 05:52	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 05:52	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 05:52	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 05:52	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:52	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 05:52	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 05:52	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:52	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 05:52	
Ethylbenzene	ND U	5.0	1	04/13/23 05:52	
2-Hexanone	ND U	10	1	04/13/23 05:52	
Methylene Chloride	ND U	5.0	1	04/13/23 05:52	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 05:52	
Styrene	ND U	5.0	1	04/13/23 05:52	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 05:52	
Tetrachloroethene	ND U	5.0	1	04/13/23 05:52	
Toluene	ND U	5.0	1	04/13/23 05:52	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 05:52	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 05:52	
Trichloroethene	ND U	5.0	1	04/13/23 05:52	
Vinyl Chloride	ND U	5.0	1	04/13/23 05:52	
o-Xylene	ND U	5.0	1	04/13/23 05:52	
m,p-Xylenes	ND U	5.0	1	04/13/23 05:52	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 11:10
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2302977-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	04/13/23 05:52	
Toluene-d8	106	87 - 121	04/13/23 05:52	
Dibromofluoromethane	99	80 - 116	04/13/23 05:52	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:15
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2302977-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	25	2.5	04/13/23 06:14	
Benzene	ND U	13	2.5	04/13/23 06:14	
Bromodichloromethane	ND U	13	2.5	04/13/23 06:14	
Bromoform	ND U	13	2.5	04/13/23 06:14	
Bromomethane	ND U	13	2.5	04/13/23 06:14	
2-Butanone (MEK)	ND U	25	2.5	04/13/23 06:14	
Carbon Disulfide	ND U	25	2.5	04/13/23 06:14	
Carbon Tetrachloride	ND U	13	2.5	04/13/23 06:14	
Chlorobenzene	ND U	13	2.5	04/13/23 06:14	
Chloroethane	ND U	13	2.5	04/13/23 06:14	
Chloroform	ND U	13	2.5	04/13/23 06:14	
Chloromethane	ND U	13	2.5	04/13/23 06:14	
Dibromochloromethane	ND U	13	2.5	04/13/23 06:14	
1,1-Dichloroethane	ND U	13	2.5	04/13/23 06:14	
1,2-Dichloroethane	ND U	13	2.5	04/13/23 06:14	
1,1-Dichloroethene	ND U	13	2.5	04/13/23 06:14	
cis-1,2-Dichloroethene	ND U	13	2.5	04/13/23 06:14	
trans-1,2-Dichloroethene	ND U	13	2.5	04/13/23 06:14	
1,2-Dichloropropane	ND U	13	2.5	04/13/23 06:14	
cis-1,3-Dichloropropene	ND U	13	2.5	04/13/23 06:14	
trans-1,3-Dichloropropene	ND U	13	2.5	04/13/23 06:14	
Ethylbenzene	ND U	13	2.5	04/13/23 06:14	
2-Hexanone	ND U	25	2.5	04/13/23 06:14	
Methylene Chloride	ND U	13	2.5	04/13/23 06:14	
4-Methyl-2-pentanone (MIBK)	ND U	25	2.5	04/13/23 06:14	
Styrene	ND U	13	2.5	04/13/23 06:14	
1,1,2,2-Tetrachloroethane	ND U	13	2.5	04/13/23 06:14	
Tetrachloroethene	ND U	13	2.5	04/13/23 06:14	
Toluene	ND U	13	2.5	04/13/23 06:14	
1,1,1-Trichloroethane	ND U	13	2.5	04/13/23 06:14	
1,1,2-Trichloroethane	ND U	13	2.5	04/13/23 06:14	
Trichloroethene	**230**	13	2.5	04/13/23 06:14	
Vinyl Chloride	ND U	13	2.5	04/13/23 06:14	
o-Xylene	ND U	13	2.5	04/13/23 06:14	
m,p-Xylenes	ND U	13	2.5	04/13/23 06:14	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 09:15
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2302977-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/13/23 06:14	
Toluene-d8	103	87 - 121	04/13/23 06:14	
Dibromofluoromethane	97	80 - 116	04/13/23 06:14	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:00
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2302977-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 06:37	
Benzene	ND U	5.0	1	04/13/23 06:37	
Bromodichloromethane	ND U	5.0	1	04/13/23 06:37	
Bromoform	ND U	5.0	1	04/13/23 06:37	
Bromomethane	ND U	5.0	1	04/13/23 06:37	
2-Butanone (MEK)	ND U	10	1	04/13/23 06:37	
Carbon Disulfide	ND U	10	1	04/13/23 06:37	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 06:37	
Chlorobenzene	ND U	5.0	1	04/13/23 06:37	
Chloroethane	ND U	5.0	1	04/13/23 06:37	
Chloroform	ND U	5.0	1	04/13/23 06:37	
Chloromethane	ND U	5.0	1	04/13/23 06:37	
Dibromochloromethane	ND U	5.0	1	04/13/23 06:37	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 06:37	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 06:37	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 06:37	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 06:37	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 06:37	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 06:37	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 06:37	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 06:37	
Ethylbenzene	ND U	5.0	1	04/13/23 06:37	
2-Hexanone	ND U	10	1	04/13/23 06:37	
Methylene Chloride	ND U	5.0	1	04/13/23 06:37	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 06:37	
Styrene	ND U	5.0	1	04/13/23 06:37	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 06:37	
Tetrachloroethene	ND U	5.0	1	04/13/23 06:37	
Toluene	ND U	5.0	1	04/13/23 06:37	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 06:37	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 06:37	
Trichloroethene	ND U	5.0	1	04/13/23 06:37	
Vinyl Chloride	ND U	5.0	1	04/13/23 06:37	
o-Xylene	ND U	5.0	1	04/13/23 06:37	
m,p-Xylenes	ND U	5.0	1	04/13/23 06:37	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:00
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2302977-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/13/23 06:37	
Toluene-d8	102	87 - 121	04/13/23 06:37	
Dibromofluoromethane	96	80 - 116	04/13/23 06:37	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:30
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R2302977-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 06:59	
Benzene	ND U	5.0	1	04/13/23 06:59	
Bromodichloromethane	ND U	5.0	1	04/13/23 06:59	
Bromoform	ND U	5.0	1	04/13/23 06:59	
Bromomethane	ND U	5.0	1	04/13/23 06:59	
2-Butanone (MEK)	ND U	10	1	04/13/23 06:59	
Carbon Disulfide	ND U	10	1	04/13/23 06:59	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 06:59	
Chlorobenzene	ND U	5.0	1	04/13/23 06:59	
Chloroethane	ND U	5.0	1	04/13/23 06:59	
Chloroform	ND U	5.0	1	04/13/23 06:59	
Chloromethane	ND U	5.0	1	04/13/23 06:59	
Dibromochloromethane	ND U	5.0	1	04/13/23 06:59	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 06:59	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 06:59	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 06:59	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 06:59	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 06:59	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 06:59	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 06:59	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 06:59	
Ethylbenzene	ND U	5.0	1	04/13/23 06:59	
2-Hexanone	ND U	10	1	04/13/23 06:59	
Methylene Chloride	ND U	5.0	1	04/13/23 06:59	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 06:59	
Styrene	ND U	5.0	1	04/13/23 06:59	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 06:59	
Tetrachloroethene	ND U	5.0	1	04/13/23 06:59	
Toluene	ND U	5.0	1	04/13/23 06:59	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 06:59	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 06:59	
Trichloroethene	ND U	5.0	1	04/13/23 06:59	
Vinyl Chloride	ND U	5.0	1	04/13/23 06:59	
o-Xylene	ND U	5.0	1	04/13/23 06:59	
m,p-Xylenes	ND U	5.0	1	04/13/23 06:59	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 10:30
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R2302977-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	04/13/23 06:59	
Toluene-d8	102	87 - 121	04/13/23 06:59	
Dibromofluoromethane	96	80 - 116	04/13/23 06:59	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 08:45
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2302977-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 07:21	
Benzene	ND U	5.0	1	04/13/23 07:21	
Bromodichloromethane	ND U	5.0	1	04/13/23 07:21	
Bromoform	ND U	5.0	1	04/13/23 07:21	
Bromomethane	ND U	5.0	1	04/13/23 07:21	
2-Butanone (MEK)	ND U	10	1	04/13/23 07:21	
Carbon Disulfide	ND U	10	1	04/13/23 07:21	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 07:21	
Chlorobenzene	ND U	5.0	1	04/13/23 07:21	
Chloroethane	ND U	5.0	1	04/13/23 07:21	
Chloroform	ND U	5.0	1	04/13/23 07:21	
Chloromethane	ND U	5.0	1	04/13/23 07:21	
Dibromochloromethane	ND U	5.0	1	04/13/23 07:21	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 07:21	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 07:21	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 07:21	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 07:21	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 07:21	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 07:21	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 07:21	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 07:21	
Ethylbenzene	ND U	5.0	1	04/13/23 07:21	
2-Hexanone	ND U	10	1	04/13/23 07:21	
Methylene Chloride	ND U	5.0	1	04/13/23 07:21	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 07:21	
Styrene	ND U	5.0	1	04/13/23 07:21	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 07:21	
Tetrachloroethene	ND U	5.0	1	04/13/23 07:21	
Toluene	ND U	5.0	1	04/13/23 07:21	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 07:21	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 07:21	
Trichloroethene	**23**	5.0	1	04/13/23 07:21	
Vinyl Chloride	ND U	5.0	1	04/13/23 07:21	
o-Xylene	ND U	5.0	1	04/13/23 07:21	
m,p-Xylenes	ND U	5.0	1	04/13/23 07:21	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23 08:45
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2302977-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	04/13/23 07:21	
Toluene-d8	101	87 - 121	04/13/23 07:21	
Dibromofluoromethane	95	80 - 116	04/13/23 07:21	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2302977-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 03:16	
Benzene	ND U	5.0	1	04/13/23 03:16	
Bromodichloromethane	ND U	5.0	1	04/13/23 03:16	
Bromoform	ND U	5.0	1	04/13/23 03:16	
Bromomethane	ND U	5.0	1	04/13/23 03:16	
2-Butanone (MEK)	ND U	10	1	04/13/23 03:16	
Carbon Disulfide	ND U	10	1	04/13/23 03:16	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 03:16	
Chlorobenzene	ND U	5.0	1	04/13/23 03:16	
Chloroethane	ND U	5.0	1	04/13/23 03:16	
Chloroform	ND U	5.0	1	04/13/23 03:16	
Chloromethane	ND U	5.0	1	04/13/23 03:16	
Dibromochloromethane	ND U	5.0	1	04/13/23 03:16	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 03:16	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 03:16	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 03:16	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 03:16	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 03:16	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 03:16	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 03:16	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 03:16	
Ethylbenzene	ND U	5.0	1	04/13/23 03:16	
2-Hexanone	ND U	10	1	04/13/23 03:16	
Methylene Chloride	ND U	5.0	1	04/13/23 03:16	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 03:16	
Styrene	ND U	5.0	1	04/13/23 03:16	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 03:16	
Tetrachloroethene	ND U	5.0	1	04/13/23 03:16	
Toluene	ND U	5.0	1	04/13/23 03:16	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 03:16	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 03:16	
Trichloroethene	ND U	5.0	1	04/13/23 03:16	
Vinyl Chloride	ND U	5.0	1	04/13/23 03:16	
o-Xylene	ND U	5.0	1	04/13/23 03:16	
m,p-Xylenes	ND U	5.0	1	04/13/23 03:16	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	04/07/23
Sample Matrix:	Water	**Date Received:**	04/07/23 14:30
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2302977-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	04/13/23 03:16	
Toluene-d8	104	87 - 121	04/13/23 03:16	
Dibromofluoromethane	97	80 - 116	04/13/23 03:16	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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www.alsglobal.com

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2302977
Project: Crosman/30005202
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
PW-1	R2302977-001	101	96	102
MW-3A	R2302977-002	102	103	102
MW-4	R2302977-003	101	96	102
MW-5	R2302977-004	101	95	101
MW-13	R2302977-005	102	96	103
MW-14	R2302977-006	102	95	102
MW-15	R2302977-007	105	99	106
MW-17	R2302977-008	101	97	103
MW-18	R2302977-009	101	96	102
MW-19	R2302977-010	102	96	102
MW-20	R2302977-011	100	95	101
Trip Blank	R2302977-012	104	97	104
Lab Control Sample	RQ2304187-03	101	96	101
Duplicate Lab Control Sample	RQ2304187-04	100	95	100
Method Blank	RQ2304187-05	101	96	102
Lab Control Sample	RQ2304250-03	102	104	102
Method Blank	RQ2304250-04	97	101	100

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2304187-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/12/23 23:55	
Benzene	ND U	5.0	1	04/12/23 23:55	
Bromodichloromethane	ND U	5.0	1	04/12/23 23:55	
Bromoform	ND U	5.0	1	04/12/23 23:55	
Bromomethane	ND U	5.0	1	04/12/23 23:55	
2-Butanone (MEK)	ND U	10	1	04/12/23 23:55	
Carbon Disulfide	ND U	10	1	04/12/23 23:55	
Carbon Tetrachloride	ND U	5.0	1	04/12/23 23:55	
Chlorobenzene	ND U	5.0	1	04/12/23 23:55	
Chloroethane	ND U	5.0	1	04/12/23 23:55	
Chloroform	ND U	5.0	1	04/12/23 23:55	
Chloromethane	ND U	5.0	1	04/12/23 23:55	
Dibromochloromethane	ND U	5.0	1	04/12/23 23:55	
1,1-Dichloroethane	ND U	5.0	1	04/12/23 23:55	
1,2-Dichloroethane	ND U	5.0	1	04/12/23 23:55	
1,1-Dichloroethene	ND U	5.0	1	04/12/23 23:55	
cis-1,2-Dichloroethene	ND U	5.0	1	04/12/23 23:55	
trans-1,2-Dichloroethene	ND U	5.0	1	04/12/23 23:55	
1,2-Dichloropropane	ND U	5.0	1	04/12/23 23:55	
cis-1,3-Dichloropropene	ND U	5.0	1	04/12/23 23:55	
trans-1,3-Dichloropropene	ND U	5.0	1	04/12/23 23:55	
Ethylbenzene	ND U	5.0	1	04/12/23 23:55	
2-Hexanone	ND U	10	1	04/12/23 23:55	
Methylene Chloride	ND U	5.0	1	04/12/23 23:55	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/12/23 23:55	
Styrene	ND U	5.0	1	04/12/23 23:55	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/12/23 23:55	
Tetrachloroethene	ND U	5.0	1	04/12/23 23:55	
Toluene	ND U	5.0	1	04/12/23 23:55	
1,1,1-Trichloroethane	ND U	5.0	1	04/12/23 23:55	
1,1,2-Trichloroethane	ND U	5.0	1	04/12/23 23:55	
Trichloroethene	ND U	5.0	1	04/12/23 23:55	
Vinyl Chloride	ND U	5.0	1	04/12/23 23:55	
o-Xylene	ND U	5.0	1	04/12/23 23:55	
m,p-Xylenes	ND U	5.0	1	04/12/23 23:55	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2304187-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	04/12/23 23:55	
Toluene-d8	102	87 - 121	04/12/23 23:55	
Dibromofluoromethane	96	80 - 116	04/12/23 23:55	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2304250-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	04/13/23 15:36	
Benzene	ND U	5.0	1	04/13/23 15:36	
Bromodichloromethane	ND U	5.0	1	04/13/23 15:36	
Bromoform	ND U	5.0	1	04/13/23 15:36	
Bromomethane	ND U	5.0	1	04/13/23 15:36	
2-Butanone (MEK)	ND U	10	1	04/13/23 15:36	
Carbon Disulfide	ND U	10	1	04/13/23 15:36	
Carbon Tetrachloride	ND U	5.0	1	04/13/23 15:36	
Chlorobenzene	ND U	5.0	1	04/13/23 15:36	
Chloroethane	ND U	5.0	1	04/13/23 15:36	
Chloroform	ND U	5.0	1	04/13/23 15:36	
Chloromethane	ND U	5.0	1	04/13/23 15:36	
Dibromochloromethane	ND U	5.0	1	04/13/23 15:36	
1,1-Dichloroethane	ND U	5.0	1	04/13/23 15:36	
1,2-Dichloroethane	ND U	5.0	1	04/13/23 15:36	
1,1-Dichloroethene	ND U	5.0	1	04/13/23 15:36	
cis-1,2-Dichloroethene	ND U	5.0	1	04/13/23 15:36	
trans-1,2-Dichloroethene	ND U	5.0	1	04/13/23 15:36	
1,2-Dichloropropane	ND U	5.0	1	04/13/23 15:36	
cis-1,3-Dichloropropene	ND U	5.0	1	04/13/23 15:36	
trans-1,3-Dichloropropene	ND U	5.0	1	04/13/23 15:36	
Ethylbenzene	ND U	5.0	1	04/13/23 15:36	
2-Hexanone	ND U	10	1	04/13/23 15:36	
Methylene Chloride	ND U	5.0	1	04/13/23 15:36	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	04/13/23 15:36	
Styrene	ND U	5.0	1	04/13/23 15:36	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	04/13/23 15:36	
Tetrachloroethene	ND U	5.0	1	04/13/23 15:36	
Toluene	ND U	5.0	1	04/13/23 15:36	
1,1,1-Trichloroethane	ND U	5.0	1	04/13/23 15:36	
1,1,2-Trichloroethane	ND U	5.0	1	04/13/23 15:36	
Trichloroethene	ND U	5.0	1	04/13/23 15:36	
Vinyl Chloride	ND U	5.0	1	04/13/23 15:36	
o-Xylene	ND U	5.0	1	04/13/23 15:36	
m,p-Xylenes	ND U	5.0	1	04/13/23 15:36	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2302977
Project:	Crosman/30005202	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2304250-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/13/23 15:36	
Toluene-d8	100	87 - 121	04/13/23 15:36	
Dibromofluoromethane	101	80 - 116	04/13/23 15:36	

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2302977
Date Analyzed: 04/13/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2304250-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	16.9	20.0	85	40-161
Benzene	8260C	20.6	20.0	103	79-119
Bromodichloromethane	8260C	20.4	20.0	102	81-123
Bromoform	8260C	22.6	20.0	113	65-146
Bromomethane	8260C	23.4	20.0	117	42-166
2-Butanone (MEK)	8260C	15.4	20.0	77	61-137
Carbon Disulfide	8260C	18.8	20.0	94	66-128
Carbon Tetrachloride	8260C	21.9	20.0	110	70-127
Chlorobenzene	8260C	21.6	20.0	108	80-121
Chloroethane	8260C	18.4	20.0	92	62-131
Chloroform	8260C	20.1	20.0	100	79-120
Chloromethane	8260C	20.9	20.0	105	72-179
Dibromochloromethane	8260C	21.9	20.0	110	72-128
1,1-Dichloroethane	8260C	19.9	20.0	99	80-124
1,2-Dichloroethane	8260C	21.0	20.0	105	71-127
1,1-Dichloroethene	8260C	22.2	20.0	111	69-142
cis-1,2-Dichloroethene	8260C	20.9	20.0	104	80-121
trans-1,2-Dichloroethene	8260C	21.9	20.0	110	73-118
1,2-Dichloropropane	8260C	20.1	20.0	100	80-119
cis-1,3-Dichloropropene	8260C	22.1	20.0	110	77-122
trans-1,3-Dichloropropene	8260C	21.7	20.0	108	71-133
Ethylbenzene	8260C	21.6	20.0	108	76-120
2-Hexanone	8260C	17.4	20.0	87	63-124
Methylene Chloride	8260C	20.2	20.0	101	73-122
4-Methyl-2-pentanone (MIBK)	8260C	17.4	20.0	87	66-124
Styrene	8260C	22.6	20.0	113	80-124
1,1,2,2-Tetrachloroethane	8260C	19.6	20.0	98	78-126
Tetrachloroethene	8260C	23.3	20.0	116	72-125
Toluene	8260C	21.5	20.0	108	79-119
1,1,1-Trichloroethane	8260C	20.7	20.0	104	75-125
1,1,2-Trichloroethane	8260C	21.7	20.0	108	82-121
Trichloroethene	8260C	22.5	20.0	112	74-122
Vinyl Chloride	8260C	17.4	20.0	87	74-159

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2302977
Date Analyzed: 04/13/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2304250-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	22.1	20.0	110	79-123
m,p-Xylenes	8260C	43.7	40.0	109	80-126

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2302977
Project: Crosman/30005202 **Date Analyzed:** 04/12/23
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2304187-03			RQ2304187-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetone	8260C	19.0	20.0	95	19.7	20.0	98	40-161	3	30
Benzene	8260C	18.6	20.0	93	19.0	20.0	95	79-119	2	30
Bromodichloromethane	8260C	18.0	20.0	90	18.4	20.0	92	81-123	2	30
Bromoform	8260C	18.1	20.0	90	18.3	20.0	92	65-146	1	30
Bromomethane	8260C	17.5	20.0	87	17.2	20.0	86	42-166	2	30
2-Butanone (MEK)	8260C	18.5	20.0	93	18.5	20.0	93	61-137	<1	30
Carbon Disulfide	8260C	17.8	20.0	89	18.1	20.0	91	66-128	2	30
Carbon Tetrachloride	8260C	17.1	20.0	85	17.5	20.0	88	70-127	3	30
Chlorobenzene	8260C	17.9	20.0	90	18.4	20.0	92	80-121	3	30
Chloroethane	8260C	17.8	20.0	89	18.9	20.0	94	62-131	6	30
Chloroform	8260C	18.0	20.0	90	18.8	20.0	94	79-120	5	30
Chloromethane	8260C	20.2	20.0	101	20.6	20.0	103	72-179	2	30
Dibromochloromethane	8260C	18.0	20.0	90	17.6	20.0	88	72-128	2	30
1,1-Dichloroethane	8260C	18.5	20.0	93	19.0	20.0	95	80-124	2	30
1,2-Dichloroethane	8260C	19.0	20.0	95	19.2	20.0	96	71-127	<1	30
1,1-Dichloroethene	8260C	17.8	20.0	89	18.2	20.0	91	69-142	3	30
cis-1,2-Dichloroethene	8260C	18.2	20.0	91	18.5	20.0	93	80-121	2	30
trans-1,2-Dichloroethene	8260C	18.3	20.0	91	18.4	20.0	92	73-118	<1	30
1,2-Dichloropropane	8260C	18.6	20.0	93	18.9	20.0	94	80-119	1	30
cis-1,3-Dichloropropene	8260C	18.7	20.0	94	19.0	20.0	95	77-122	1	30
trans-1,3-Dichloropropene	8260C	18.1	20.0	91	18.3	20.0	91	71-133	<1	30
Ethylbenzene	8260C	17.7	20.0	89	18.1	20.0	90	76-120	2	30
2-Hexanone	8260C	18.4	20.0	92	18.5	20.0	93	63-124	<1	30
Methylene Chloride	8260C	18.1	20.0	91	18.5	20.0	92	73-122	2	30
4-Methyl-2-pentanone (MIBK)	8260C	18.2	20.0	91	18.3	20.0	91	66-124	<1	30
Styrene	8260C	19.1	20.0	96	18.9	20.0	95	80-124	1	30
1,1,2,2-Tetrachloroethane	8260C	19.1	20.0	96	19.6	20.0	98	78-126	3	30
Tetrachloroethene	8260C	18.0	20.0	90	18.2	20.0	91	72-125	<1	30
Toluene	8260C	18.2	20.0	91	18.3	20.0	92	79-119	<1	30
1,1,1-Trichloroethane	8260C	16.9	20.0	85	17.1	20.0	86	75-125	1	30
1,1,2-Trichloroethane	8260C	19.1	20.0	95	18.8	20.0	94	82-121	1	30
Trichloroethene	8260C	17.5	20.0	88	17.9	20.0	89	74-122	2	30
Vinyl Chloride	8260C	16.2	20.0	81	16.3	20.0	81	74-159	<1	30

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2302977
Date Analyzed: 04/12/23

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2304187-03			RQ2304187-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
o-Xylene	8260C	18.4	20.0	92	18.5	20.0	93	79-123	<1	30
m,p-Xylenes	8260C	36.5	40.0	91	37.0	40.0	93	80-126	2	30

Crosman Site
East Bloomfield, New York

ARCADIS

Groundwater Parameter and Sampling Log

Sampling Personnel: Ryan Clare and Kaitlyn Fleming
Event: April 2022

Date	Sample ID	Sample Time	DTW (ft BTIC)	Temp (°C)	Dissolved Oxygen (mg/L; 10%)	Specific Conductivity (mS/cm; 3%)	pH (0.1 unit)	ORP (mV; 10 mV)	Turbidity (NTU; 10%)	# of Bottles	Notes
4/12/2022	PW-1	1110	10.73	14.2	4.66	1.792	7.23	137.3	1.36	3	Initial
4/12/2022	MW-3A	1310	47.24	12.4	10.29	1.421	7.79	133.4	13.81	3	Initial
				12.2	7.01	1.056	7.35	137.7	8.21		1 Volume
				12.0	7.35	2.847	7.01	150.1	9.10		2 Volumes
				13.0	8.11	3.957	6.99	151.8	8.87		3 Volumes
4/12/2022	MW-4	0950	13.19	10.1	10.12	2.637	7.49	122.9	26.40	3	Initial
				10.6	9.52	2.703	7.44	134.7	56.94		1 Volume
				11.2	9.07	2.713	7.42	143.4	63.67		2 Volumes
				11.2	6.00	2.767	7.33	-36.0	825.44		3 Volumes
4/12/2022	MW-5	1015	12.72	10.3	7.15	0.992	7.78	100.6	71.65	3	Initial
				9.8	7.05	0.936	7.73	109.6	10.72		1 Volume
				10.0	7.52	0.932	7.75	117.9	10.74		2 Volumes
				10.4	7.25	0.930	7.72	22.1	8.13		3 Volumes
4/12/2022	MW-13	1245	28.92	11.7	9.39	0.034	7.56	113.6	7.85	3	Initial
				11.8	8.87	1.096	7.57	117.7	17.23		1 Volume
				11.8	8.43	1.110	7.51	123.0	12.36		2 Volumes
				13.4	8.17	1.144	7.49	128.7	6.64		3 Volumes
4/12/2022	MW-14	1040	53.73	11.1	7.36	0.595	7.60	112.8	7.57	3	Initial
				10.4	8.48	0.576	7.70	98.6	20.14		1 Volume
				10.5	7.82	0.576	7.59	109.9	17.36		2 Volumes
				11.7	6.42	0.595	7.63	63.8	13.14		3 Volumes

Notes:

Samples submitted for VOC analysis via Method OLC 2.1 (3 - 40 mL vials/sample)

BTIC - below top of inner casing

Crosman Site
East Bloomfield, New York

ARCADIS

Groundwater Parameter and Sampling Log

Sampling Personnel: Ryan Clare and Kaitlyn Fleming
Event: April 2022

Date	Sample ID	Sample Time	DTW (ft BTIC)	Temp (°C)	Dissolved Oxygen (mg/L; 10%)	Specific Conductivity (mS/cm; 3%)	pH (0.1 unit)	ORP (mV; 10 mV)	Turbidity (NTU; 10%)	# of Bottles	Notes
4/12/2022	MW-15	0925	9.78	9.6	5.02	0.596	7.53	188.2	9.32	3	Initial
				9.6	4.45	0.595	7.54	192.1	9.59		1 Volume
				9.8	5.26	0.599	7.57	175.2	19.42		2 Volumes
				10.0	4.65	0.674	7.46	-0.7	19.16		3 Volumes
4/12/2022	MW-17	1340	49.82	14.7	8.25	3.350	7.48	-76.9	52.99	3	Initial
				14.7	6.16	2.953	7.35	-39.0	26.15		1 Volume
				14.6	2.79	3.102	7.26	-26.4	39.94		2 Volumes
				14.6	4.72	3.466	7.31	-55.4	146.29		3 Volumes
4/12/2022	MW-18	1210	32.54	10.8	3.43	0.494	7.81	122.6	19.47	3	Initial
				10.4	5.43	0.490	7.84	124.1	9.82		1 Volume
				10.2	4.30	0.490	7.81	125.9	9.64		2 Volumes
				11.8	4.82	0.494	7.82	126.4	11.78		3 Volumes
4/12/2022	MW-19	1150	16.17	11.6	5.88	0.695	7.36	118.8	4.48	3	Initial
				10.2	6.44	0.650	7.33	125.0	6.52		1 Volume
				9.9	5.97	0.642	7.30	127.2	40.97		2 Volumes
				9.9	7.43	0.633	7.35	121.2	163.92		3 Volumes
4/12/2022	MW-20	1415	51.74	14.5	9.56	1.487	7.61	29.7	14.00	3	Initial
				13.8	9.88	1.629	7.52	60.7	47.92		1 Volume
				13.6	9.96	1.618	7.53	87.7	73.98		2 Volumes
				13.6	9.97	1.695	7.52	97.0	94.78		3 Volumes

Notes:

Samples submitted for VOC analysis via Method OLC 2.1 (3 - 40 mL vials/sample)

BTIC - below top of inner casing

Crosman Site
East Bloomfield, New York

ARCADIS

Groundwater Parameter and Sampling Log

Sampling Personnel: Aaron Richardson and Carson Tenhagen
Event: October 2022

Date	Sample ID	Sample Time	DTW (ft BTIC)	Temp (°C)	Dissolved Oxygen (mg/L; 10%)	Specific Conductivity (mS/cm; 3%)	pH (0.1 unit)	ORP (mV; 10 mV)	Turbidity (NTU; 10%)	# of Bottles	Notes
11/3/22 ~~10/26/2022~~	PW-1	0900	16.47	12.6	5.58	1.748	7.24	198.6	0.48	3	Initial Returned on 11/3 to sample
10/26/2022	MW-4	1330	18.26	15.8	3.65	0.688	6.96	-107.5	59.10	3	Initial
				13.1	3.20	1.807	7.15	-98.8	61.01		1 Volume
				12.1	4.04	2.026	7.17	-65.0	138.10		2 Volumes
				11.8	4.45	2.069	7.21	-57.3	180.10		3 Volumes
10/26/2022	MW-5	1350	16.77	12.0	5.31	1.140	7.47	35.9	13.29	3	Initial
				11.1	5.36	1.079	7.59	53.1	15.61		1 Volume
				10.4	5.14	1.056	7.54	57.1	14.71		2 Volumes
				10.1	6.50	1.038	7.51	64.6	11.01		3 Volumes
10/26/2022	MW-13	1500	32.44	12.0	8.01	1.254	7.31	95.7	7.20	3	Initial
				11.6	8.55	1.139	7.38	89.7	28.40		1 Volume
				11.6	9.15	1.130	7.40	97.3	~~28.52~~		2 Volumes
				11.5	9.93	1.298	7.39	104.6	31.22		3 Volumes
10/26/2022	MW-14	1430	57.02	10.6	7.61	0.677	7.51	115.9	4.53	3	Initial
				10.3	7.66	0.659	7.67	115.7	20.41		1 Volume
				10.2	13.92	0.658	7.75	112.6	37.75		2 Volumes
				10.2	12.60	0.669	7.77	90.2	30.98		3 Volumes
4/12/2022	MW-15	1400	15.74	12.5	6.71	0.707	7.54	93.5	11.32	3	Initial
				11.4	6.37	0.679	7.60	89.4	27.90		1 Volume
				10.9	6.84	0.876	7.49	-30.3	55.44		2 Volumes
				10.8	5.15	0.914	7.52	-33.8	101.58		3 Volumes

Notes:

Samples submitted for VOC analysis via Method OLC 2.1 (3 - 40 mL vials/sample)

BTIC - below top of inner casing

Groundwater Parameter Log
East Bloomfield, NY

ARCADIS

Sampling Personnel: B. Kudla-Williams, K. Fleming
Event: 4/7/2023 Semi-Annual Sampling

Date	Sample ID	Sample Time	DTW (ft BTIC)	Temp (°C)	Dissolved Oxygen (mg/L)	Specific Conductivity (mS/cm	pH (SU)	ORP (mV)	Turbidity (NTU)	# of Bottles	Notes
	PW-1	1050	11.44	9.6	6.00	1.727	7.18	293.7	0	3	
	MW-3A	0930	46.76	10.4	5.69	0.008	4.66	307.5	0.44	3	
	MW-4	1125	13.91	11.2	2.82	0.007	4.89	296.5	0.04	3	
	MW-5	1135	14.08	9.1	4.52	0.005	4.84	128.8	0.32	3	
	MW-13	0950	30.78	9.5	6.26	0.007	4.17	358.9	0.15	3	
	MW-14	1150	55.84	8.8	2.78	0.004	4.72	202.1	0.03	3	
	MW-15	1110	9.07	11.7	2.29	0.024	5.77	208.9	-0.03	3	
	MW-17	0915	51.07	12.5	3.05	0.005	4.76	252.6	0.02	3	
	MW-18	1000	34.03	8.5	3.02	0.003	4.16	350.2	-0.05	3	
	MW-19	1050	6.02	8.8	4.78	0.006	3.94	389.1	-0.02	3	
	MW-20	0845	53.67	10.2	10.23	0.008	4.91	263.4	0.10	3	PDB at top of water column ~~above TD~~ at time of sample

Notes:

Samples submitted for VOC analysis via Method 8260 (3 - 40 mL vials/sample)

BTIC - below top of inner casing

* MW-20 PDB was floating at top of water column. After sampling, rope between PDB and weight was removed to ensure PDB is fully submerged.

Appendix G

Discharge Monitoring Reports

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

December 20, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of January 2023 (12 01 22 to 12 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
12/14/22	8:10 AM	24	9	8.44	3.25	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

January 21, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of February 2022 (1 01 22 to 1 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
1/12/22	9:15 AM	42	4	8.26	1.85	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures
CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

February 18, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of March 2022 (2 01 22 to 2 28 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
2/9/22	8:30 AM	41	12	8.18	0.99	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures
CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

March 16, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of April 2022 (3 01 22 to 3 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
3/9/22	8:47 AM	22	24	7.59	13.4	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures
CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

April 22, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of May 2022 (4 01 22 to 4 30 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during
The month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
4/13/22	8:55 AM	36	9	8.18	3.79	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

May 28, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of June 2022 (5 01 22 to 5 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during
The month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
5/11/22	9:00 AM	40	2	8.20	1.49	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

June 22, 2022

Ms. Kathy Ammari, EIT
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of June 2022 (6 01 22 to 6 30 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
6/15/2022	9:05 AM	48F	6	7.85	5.03	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Environmental, Health & Safety Manager
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

July 26, 2022

Pradeep Jangbari
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Mr. Jangbari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of August 2022 (7 01 22 to 7 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during
The month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
7/20/22	7:10 AM	55	1	8.07	5.68	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

August 17, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of September 2022 (8 01 22 to 8 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
8/10/22	7:35 AM AM	60	4	8.47	7.47	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Director of Environmental, Health & Safety
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

September 21, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of October 2022 (9 01 22 to 9 30 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
9/14/22	7:10 AM	50	9	7.90	5.49	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

October 25, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of November 2022 (10 01 22 to 10 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
10/14/22	7:45 AM	40	1	8.05	3.85	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

December 6, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Ammari:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of December 2022 (11 01 22 to 11 30 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
11/28/22	8:35 AM	28	17	8.29	4.93	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
Health, Safety & Environmental Manager
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

December 20, 2022

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of January 2023 (12 01 22 to 12 31 22). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
12/14/22	8:10 AM	24	9	8.44	3.25	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

January 24, 2023

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of February 2023 (1 01 23 to 1 31 23). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
1/18/23	8:30 AM	20	12	8.05	5.12	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

February 21, 2023

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of March 2023 (2 01 23 to 2 28 23). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
2/15/23	8:40 AM	24	12	8.19	5.12	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

March 23, 2023

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of April 2023 (3 01 23 to 3 31 23). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
3/15/23	8:20 AM	20	30	8.16	2.89	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

April 21, 2023

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of May 2023 (4 01 23 to 4 30 23). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
4/12/23	5:53 AM	35	12	8.17	6.96	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Todd Caffoe, P.E., NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

VELOCITY OUTDOOR

7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

May 18, 2023

Ms. Michele L. Vincent
Environmental Engineer, Water Division
NYS DEC, Region 8
6274 East Avon-Lima Rd.
Avon, New York 14414

RE: Discharge Monitoring Report, SPDES Permit # NY-0103039, Outfall Number 001

Dear Ms. Vincent:

On behalf of Crosman Corporation, enclosed is the Discharge Monitoring Report for the month of June 2023 (5 01 23 to 5 31 23). The table below summarizes the sampling dates and the analytical results for the month. Please see the attached report for the periodic test results of TTO and Cn, if performed during the month.

Date	Time	Temp (F)	Flow GPM	pH	Turbidity	TCE ug/L
5/10/23	6:00 AM	40	12	8.25	7.31	ND<2.00
LIMITS:		90°F Daily Max	Monitor	6.0 – 9.0		10 ppb action level

NA = No Analysis

I certify that the above results were obtained by approved sampling and analytical procedures, are representative of normal discharge conditions, and comply with all permit limits.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need additional information, please contact me at (585) 657-3120.

Sincerely,

Gina D. Thomas, CHMM
EHS Director
Crosman Corporation

Enclosures

CC: Mr. Joshua Ramsey, NYS DEC, Region 8
Mr. Aaron Richardson, ARCADIS of NY, Inc.

Appendix H

Institutional and Engineering Controls Certification Form

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

Site Details **Box 1**

Site No. 835012

Site Name Crosman Corp. (formerly Crosman Arms)

Site Address: 7629 Routes 5 & Route 20 Zip Code: 14469
City/Town: Bloomfield
County: Ontario
Site Acreage: 49.684

Reporting Period: January 1, 2022 to June 15, 2023

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

Box 2

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

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

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

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 835012 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
80.00-1-4.00	Crosman Corporation	Landuse Restriction Ground Water Use Restriction Monitoring Plan Site Management Plan O&M Plan Soil Management Plan IC/EC Plan

Groundwater use as a potable source is restricted
Land use is restricted to commercial or industrial
A Site Management Plan is in place which includes a groundwater monitoring plan, an O&M plan for the SSDS, an excavation work plan, and provisions for periodic certification.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
80.00-1-4.00	Vapor Mitigation Groundwater Containment

Continued Operation and monitoring of sub-slab depressurization system
Continued operation of pumping well used for non-contact cooling water within the facility

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☑	☐

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

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

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

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

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

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

YES	NO
☑	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 835012

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I William Popham (print name) at Arcadis, 100 Chestnut Street, Rochester, NY (print business address),

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

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

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

August 1, 2023
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Joseph Molina III (print name) at Arcadis, 100 Chestnut Street, Rochester, NY (print business address),

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

Joseph Molina III

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		August 1, 2023

Arcadis of New York, Inc.
100 Chestnut Street, Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com