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Date: February 17, 2022
Our Ref: 30005202
Subject: Periodic Review Report for 2021
Crosman Corporation Site
East Bloomfield, New York

Dear Mr. Caffoe,

On behalf of Crosman Corporation and New Coleman Holdings, Inc. (collectively, Crosman), Arcadis of New York, Inc. has prepared the attached Periodic Review Report for 2021 (PRR) in accordance with the approved Site Management Plan and Declaration of Covenants and Restrictions for the Crosman site located in East Bloomfield, New York.

The PRR documents the remedial activities completed at the Crosman site during 2021 and follows the form of Crosman's previously submitted PRRs.

If you have any questions, please contact me at 585.662.4022.

Sincerely,
Arcadis of New York, Inc.



William B. Popham
Senior Vice President

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CC. Justin Deming, New York State Department of Health
Andrew Weissmann, New Coleman Holdings, Inc.
Ed Mammone, New Coleman Holdings, Inc.
Thomas F. Walsh, Esq., Barclay Damon, LLP
Gina Thomas, Velocity Outdoor
Aaron D. Richardson, Arcadis of New York, Inc.

Enclosures:
Attachment 1

Crosman Corporation and New Coleman Holdings, Inc.

Periodic Review Report for 2021

**Crosman Corporation Site
East Bloomfield, New York**

February 2022

Periodic Review Report for 2021

Crosman Corporation Site, East Bloomfield, New York

February 2022

Prepared By:

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Prepared For:

Crosman Corporation and New Coleman
Holdings, Inc.

Our Ref:

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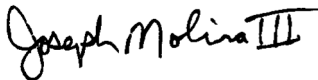
Certification

For each Institutional or Engineering Control identified for the Crosman Corporation Site located in East Bloomfield, New York (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 and Engineering Controls employed at the Site are unchanged from the date the controls were put in place, or last approved by the New York State Department of Environmental Conservation (NYSDEC).
- 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 NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.
- Use of the Site is compliant with the Declaration of Covenants and Restrictions.
- 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.
- The information presented in this Periodic Review Report is accurate and complete.

I certify that all information and statements in this certification form are true. I, Joseph Molina III, P.E., of Arcadis of New York, Inc., am certifying as Crosman Corporation's Designated Site Representative.

JOSEPH MOLINA III, P.E.



DATE: FEBRUARY 17, 2022

1 Introduction/Background

On behalf of Crosman Corporation and New Coleman Holdings, Inc. (collectively, Crosman), Arcadis of New York, Inc. (Arcadis) has prepared this Periodic Review Report for 2021 (PRR) to summarize the remedial activities conducted during 2021 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. Activities conducted in 2021 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 in 2021.

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 serving 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 one location on the eastern side of the building designated as “Area 2 Affected by SSDS Engineering Control”. All ECs remained in effect during 2021. 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 August 30, 2021, 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 for 2021.

3.1 Sub-Slab Depressurization System

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

3.1.1 System Operation

During 2021, the only downtime experienced by the system was limited to relatively short periods related to routine operation and maintenance activities, and short periods where the system was down due to power outages. The system has been operational 95% of the time for 2021, 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.

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 (DAR-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 2021, and will remain online for 2022.

3.1.2 System Effectiveness

During 2021, 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.

In early 2021, site personnel informed Arcadis of plans to relocate manufacturing equipment over the coming months; some of those relocations had the potential to result in existing VMPs being inaccessible (i.e., equipment may be placed over VMP locations). To ensure that potentially inaccessible VMPs were properly sealed, Arcadis preemptively abandoned VMP-4, VMP-8, and VMP-11 in September, July, and June 2021, respectively. On October 28, 2021, after all equipment relocation was completed, VMP-4 was installed at a new location approximately 5 feet closer to SDS-1, and VMP-8 and VMP-11 were installed at new locations that were approximately the same distance from SDS-2. During the same mobilization, Arcadis noted that the seal on VMP-3 and VMP-5 appeared to be compromised; therefore, both VMPs were abandoned and new VMPs were installed a few inches away. The new location of VMPs are presented on Figure 1. All abandoned VMP locations were abandoned in place by filling the access holes with hydraulic cement.

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 4.1 kilograms of TCE in 2021 and a total 200.6 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 two groundwater monitoring events (April and October 2021), 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.

During 2021, there were two periods of extended downtime. As noted in the 2020 PRR (Arcadis 2021a), the well pump failed on November 6, 2020 and remained offline until a new pump was installed and operation resumed on March 12, 2021. A second period of downtime resulted when site personnel discovered a rupture in the buried water supply line between the well vault and the facility. The well pump was shut down on September 3, 2021 and remained off until September 15, 2021 to allow repairs to be completed. As reported in the Semiannual

Groundwater Monitoring Report, dated December 15, 2017 (Arcadis 2017b), the well pump has remained off for extended periods of time in the past (August 16, 2017 to December 12, 2017). During these extended periods of downtime, the long-term history of pumping at this well continued to influence groundwater dynamics at the Site. Therefore, 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 August 30, 2021, 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 in 2021, with sampling events conducted on April 30, 2021 and October 25, 2021. As documented in the Semiannual Groundwater Monitoring and Reporting letter reports (Arcadis 2021c, 2021d), the results of both routine sampling events continued to show that the plume is not migrating offsite. Results of the 2021 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 complete reports (including laboratory data) and sampling forms for each event included in Appendix F.

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 in 2021 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 2021 are included in Appendix G.

5 Summary and Recommendations

Monitoring (and sampling) of the SSDS conducted in 2021 shows that TCE concentrations in sub-slab soil vapor continue to be effectively removed through the SSDS. Sampling of groundwater at the Site in 2021 showed minor fluctuations at certain wells but 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.

The inspections conducted and sample results collected during 2021 show that the ICs and ECs in place for the Site are in compliance with and effectively meeting the remedial action objectives established for the Site. It is recommended that the ICs and ECs in place during 2021 be maintained for 2022.

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. 2021c. Semiannual Groundwater Monitoring Report. Crosman Corporation. May 27.
- Arcadis. 2021d. Semiannual Groundwater Monitoring Report. Crosman Corporation. December 6.
- 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.

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
1/29/2021	10:00	-8.810	-0.019	-0.608	-0.001	-0.053	-0.031	-0.010	-0.010	-0.033	-0.023	-0.080	NA ¹
2/23/2021	9:00	-9.510	-0.024	-0.044	-0.001	-0.024	-0.035	-0.010	-0.010	-0.025	-0.014	-0.051	NA ¹
3/29/2021	9:00	-9.614	-0.022	-0.035	-0.002	-0.023	-0.047	-0.049	-0.014	-0.048	-0.043	-0.024	NA ¹
4/30/2021	8:00	-9.402	-0.020	-0.662	-0.002	-0.051	-0.016	-0.013	-0.014	-0.055	-0.043	-0.125	NA ¹
5/24/2021	9:00	-9.569	-0.024	-0.684	NA ²	-0.050	-0.051	-0.016	-0.015	-0.052	-0.038	-0.117	NA ¹
6/29/2021	10:00	-11.210	-0.043	-0.890	NA ²	-0.054	-0.083	-0.025	-0.046	-0.066	-0.102	NA ²	NA ¹
7/27/2021	10:00	-10.628	-0.041	-0.617	NA ²	-0.063	-0.075	-0.018	NA ²	-0.089	-0.056	NA ²	NA ¹
8/30/2021	10:00	-9.845	-0.037	-0.837	-0.005	-0.004	-0.059	-0.018	NA ²	-0.078	-0.047	NA ²	NA ¹
9/28/2021	9:00	-10.006	-0.030	-0.857	NA ²	-0.003	-0.005	-0.020	NA ²	-0.076	-0.051	NA ²	NA ¹
10/28/2021	9:00	-7.275	-0.017	-0.841	-0.020	-0.040	-0.017	-0.010	-0.407	-0.044	-0.030	-0.167	NA ¹
11/30/2021	10:00	-9.566	-0.012	-0.832	-0.020	-0.042	-0.015	-0.008	-0.403	-0.041	-0.026	-0.156	NA ¹
12/29/2021	9:00	-10.953	-0.029	-0.891	-0.027	-0.068	-0.051	-0.016	-0.471	-0.036	-0.028	-0.173	NA ¹

Notes:

in.wc = inches of water column

SDS = sub-slab depressurization sump

VMP = vacuum monitoring point

NA¹ = no data collected; sample point was abandoned

NA² = no data collected; sample point was inaccessible

On 10/28/21, VMPs 4, 8 and 11 were installed in new locations. Previous locations were inaccessible due to relocation of manufacturing equipment, and VMPs 3 and 5 were abandoned and reinstalled a few inches away due to the seals being compromised.

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



Sample ID	SDS-1		SDS-2		Pre-VPGAC-101		Pre-VPGAC-104		Post-Dilution-EFF		Post-Blower/ Effluent	
Location	SDS-1 Influent		SDS-2 Influent		Combined Influent		Between VPGAC 103 and VPGAC 104		Between VPGAC 104 and Blower		Effluent	
Sample Collection Date	6/29/2021	12/29/2021	6/29/2021	12/29/2021	6/29/2021	12/29/2021	6/29/2021	12/29/2021	6/29/2021	12/29/2021	6/29/2021	12/29/2021
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Vinyl chloride	5 U	3.2 U	3.8 U	2.4 U	4.5 U	2.4 U	7 U	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	3.5 U	2.2 U	2.7 U	1.7 U	3.1 U	1.7 U	4.9 U	1.4 U	1.6	1.4 U	1.6	1.4 U
Acetone	300 U	190 U	230 U	220	270 U	140 U	420 U	57 J	120 U	120 U	120 U	120 U
Methylene Chloride	43 U	28 U	33 U	21 U	39 U	21 U	61 U	17 U	17 U	17 U	17 U	17 U
trans-1,2-Dichloroethene	20 U	13 U	15 U	9.5 U	18 U	9.5 U	28 U	7.9 U	7.9 U	7.9 U	7.9 U	7.9 U
1,1-Dichloroethane	20 U	13 U	16 U	9.7 U	18 U	9.7 U	28 U	8.1 U	8.1 U	8.1 U	8.1 U	8.1 U
cis-1,2-Dichloroethene	5.4	3.7	240	140	210	110	360	43	99	110	120	110
1,2-Dichloroethene, Total	40 U	25 U	240	130	210	110	360	44	99	110	120	110
1,1,1-Trichloroethane	27 U	17 U	21 U	13 U	25 U	13 U	38 U	11 U	11 U	11 U	11 U	11 U
Carbon tetrachloride	5.5 U	3.5 U	4.2 U	2.6 U	5 U	2.6 U	7.8 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Benzene	16 U	10 U	12 U	7.7 U	14 U	7.7 U	22 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U
Trichloroethene	17,000 D	14,000	11,000 D	9,500	15,000 D	12,000	21,000 D	1,700	9.6	1.9 U	2.3	1.9 U
Toluene	19 U	12 U	24	9 U	17 U	9 U	27 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Tetrachloroethene	53	44	16 J	15 J	30 J	22	48 U	14 U	14 U	14 U	14 U	14 U
Chlorobenzene	23 U	15 U	18 U	11 U	21 U	11 U	32 U	9.2 U	9.2 U	9.2 U	9.2 U	9.2 U
m,p-Xylene	54 U	35 U	42 U	26 U	49 U	26 U	76 U	22 U	22 U	22 U	22 U	22 U
Xylene, o-	22 U	14 U	17 U	10 U	20 U	10 U	31 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Bromoform	52 U	33 U	40 U	25 U	47 U	25 U	73 U	21 U	21 U	21 U	21 U	21 U
1,1,2,2-Tetrachloroethane	34 U	22 U	26 U	16 U	31 U	16 U	48 U	14 U	14 U	14 U	14 U	14 U
Total VOCs ⁽³⁾	17,058	14,048	11,280	9,875	15,227	12,132	21,360	1,800	110	110	124	110

Notes:

- 1) Samples analyzed for VOCs by USEPA Method TO-15.
- 2) All concentrations are in $\mu\text{g}/\text{m}^3$.
- 3) Total VOCs shown include estimated concentrations (e.g., concentrations with "J" laboratory qualifiers).
- 4) VPGAC-101 taken offline on February 22, 2017; VPGAC-102 taken offline on January 31, 2019.
- 5) Sampling performed semi-annually.

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.

SDS = sub-slab depressurization sump

U = Indicates the analyte was analyzed for but not detected.

$\mu\text{g}/\text{m}^3$ = 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 ($\mu\text{g}/\text{m}^3$) ^(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				
6/29/2021	12/11/20	6/29/21	200	93.3%	15,227	6.1	15.0	21	13.1	11.8	2.2	198.7
12/29/2021	6/29/21	12/29/21	183	98.0%	12,132	4.4	11.1	16	7.7	10.4	1.9	200.6

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 2020 reporting period was 196.5 kg.

- = not applicable

% = percent

kg = kilogram

scfm = standard cubic feet per minute

SDS = sub-slab depressurization sump

$\mu\text{g}/\text{m}^3$ = 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	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21
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	210	190	280	250	350	260	190	130	220 D	200
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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



Well I.D.	MW-4									
	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
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	-	-	4.06	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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 Program Monitoring Wells
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Well I.D.	MW-4									
Date Sampled	19-Apr-17	17-Oct-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
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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 Program Monitoring Wells
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Well I.D.	MW-5									
Date Sampled	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	6.28	9.6	-	8.8	17	15	14	9.4
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	23	33	16.4	19	7.9	8.7	5.7	6.4	-	6.1
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-5									
	19-Apr-17	17-Oct-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
Volatiles										
Acetone	-	-	-	12	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	8.8	9.6	11	8.0	9.5	9.4	8.5	8.3	6.7	21
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5.0	17	11	11	9.5	9.1	7.8	6.8	6.7	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-13									
Date Sampled	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	28	28	19.2	-	-	-	-	29	-	13
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	460	640	381	480	310	190	180	400 D	130	96
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-13									
Date Sampled	19-Apr-17	17-Oct-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
Volatiles										
Acetone	-	-	-	16	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	16	-	-	15	-	-	19	32	-	7.6
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	250 D	110	51	140	34	58	340 D	29	-	140
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-14									
Date Sampled	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
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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 Program Monitoring Wells
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Well I.D.	MW-14									
Date Sampled	19-Apr-17	17-Oct-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
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
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-15									
Date Sampled	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
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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Well I.D.	MW-15									
Date Sampled	19-Apr-17	17-Oct-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
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)	-	-	-	-	-	-	-	-	-	-

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 Program Monitoring Wells
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Well I.D.	MW-17									
Date Sampled	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	6.48	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	25	13.4	-	-	-	-	-	15	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	370	324	440	400	340	500 D	470	440	440	350
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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 Program Monitoring Wells
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Well I.D.	MW-18									
Date Sampled	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21
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 20.	-	-	-	-	-	-	-	-	-	-
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	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21
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 20.	-	-	-	-	-	-	-	-	-	-
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-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	27-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
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	130	150	105	140	120	110	69	98	79	92
Notes on page 20.	-	-	-	-	-	-	-	-	-	-
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								
	19-Apr-17	3-Apr-18	26-Oct-18	23-Apr-19	31-Oct-19	21-Apr-20	28-Oct-20	30-Apr-21	25-Oct-21
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	41	14	22	15	15	14	42	37	23
Notes on page 20.	-	-	-	-	-	-	-	-	-
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 (formerly IRM-1)									
Date Sampled	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16	19-Apr-17	3-Apr-18	23-Apr-19	21-Apr-20	30-Apr-21
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	130	138	170	110	120	160	120	150	180	92
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

Notes on page 18.

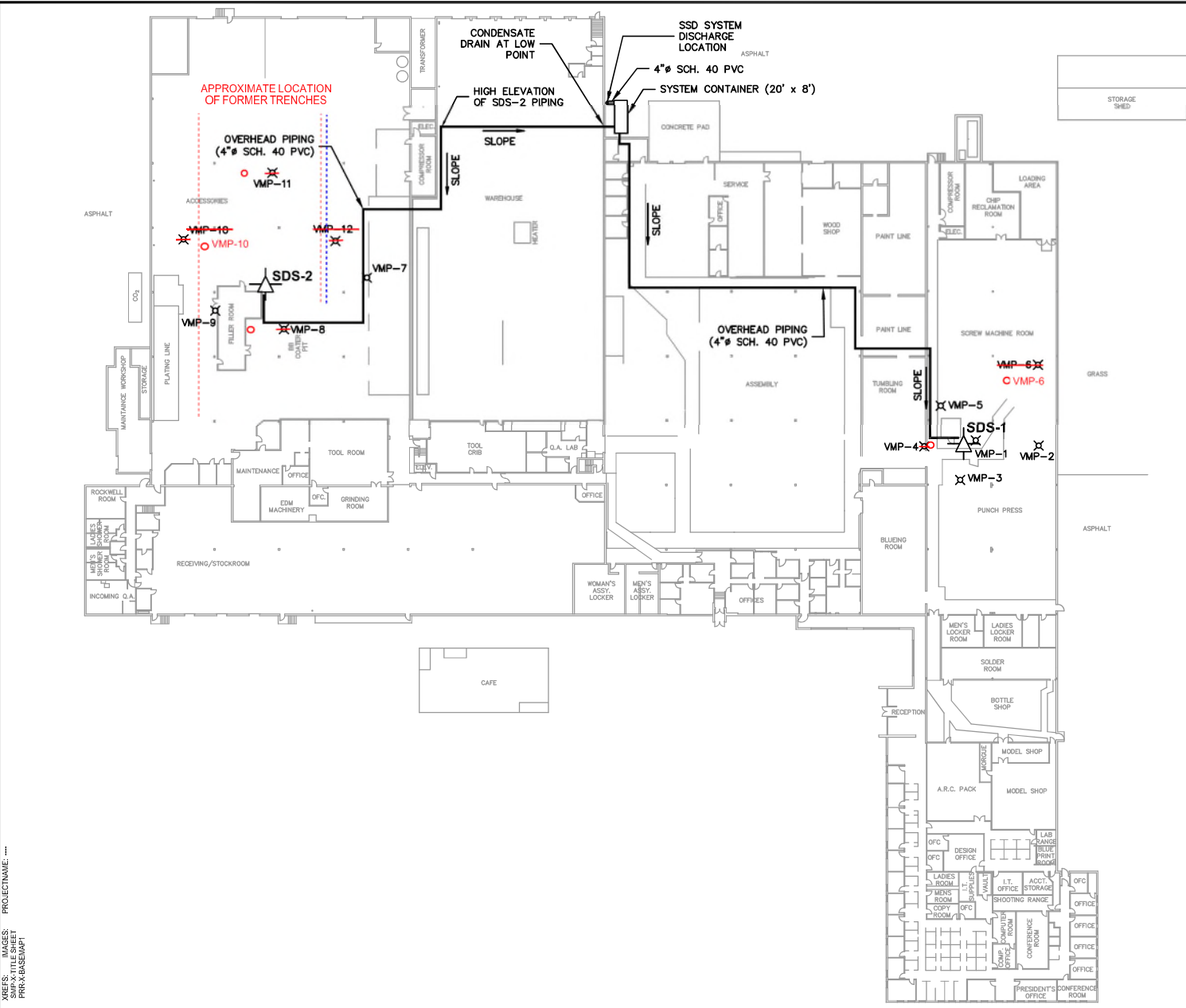
Table 4
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

- 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 ($\mu\text{g/L}$), equivalent to parts per billion.

Figures

CITY: SYRACUSE, NY; DIV: GROUP EN/CAD; DRG: STEINBERGER, LD.; PLOT: TMD_ZLICK; V:\BROW\OFF\REF-
 C:\Users\Kimm\OneDrive - ARCADIS\BIM_360 Docs\NEW COLEMAN HOLDINGS\CROSMAN SITE E, BLOOMFIELD NY\2019\BOM\1501_0000101.DWG\PRR-FG01-EXTRACTION.PTS.dwg; LAYOUT: 1; SAVER: 1/18/2019 12:45 PM; ACADVER: 2; IUS (LWS TECH); PAGESETUP: PDF-D28
 XREFS: TITLE: PRR-X-BASEMAP1; PAGES: 1; PROJECTNAME: ...



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 LEVELLED AS NEEDED USING STEEL SHIMS.
7. SSD SYSTEM DISCHARGE PIPING STACK EXTENDS TO 3 FEET ABOVE ROOFLINE.

0 60' 120'
 GRAPHIC SCALE

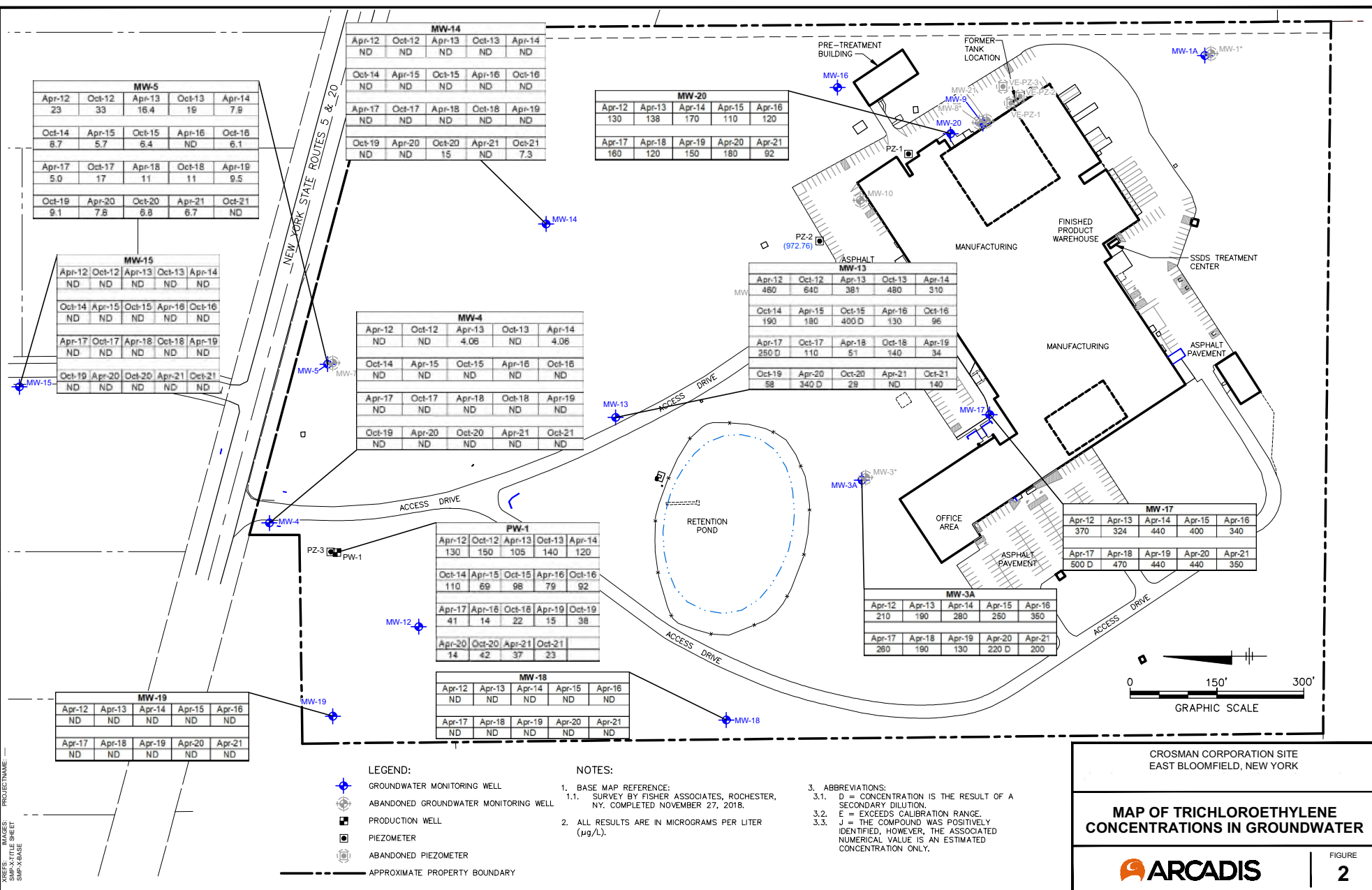
CROSMAN CORPORATION SITE
 EAST BLOOMFIELD, NEW YORK

**SSDS AND VACUUM MONITORING
 POINT LOCATIONS**

ARCADIS Design & Consultancy
 For natural and built assets

FIGURE
1

CITY: SYRACUSE NY; DIV: GROUP ENV/CAO; DB: E. KRAMER; LD: (061); PIC: RA, W. POPHAM; AR: MITA, A. RICHARDSON; LYS: GORON+OEF+REF+
 C:\Users\wheeler\OneDrive - ARCADIS\My Documents\GIS\New York\2021\10-14-Progress\01-DWG\GMR-FIG 2-TRICH\CONC IN GW OCT 20 21.dwg; LAYOUT: 2; SAVER: 11/16/2021 4:39 PM; ACADVER: 24.08
 (LMS TECH); PAGESETUP: PLOT-LIB; PLOTSTYLETABLE: PLT-TITLE.ctb; PLOTTED: 11/16/2021 4:38 PM; BY: KRAMER, ERIC
 XREFS: TITLE SHEET
 PAGES: SMP-X-BASE
 PROJECT NAME: ---



MW-5

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
23	33	16.4	19	7.9
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
8.7	5.7	6.4	ND	6.1
Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
5.0	17	11	11	9.5
Oct-19	Apr-20	Oct-20	Apr-21	Oct-21
9.1	7.8	6.8	6.7	ND

MW-14

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
ND	ND	ND	ND	ND
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
ND	ND	ND	ND	ND
Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
ND	ND	ND	ND	ND
Oct-19	Apr-20	Oct-20	Apr-21	Oct-21
ND	ND	15	ND	7.3

MW-20

Apr-12	Apr-13	Apr-14	Apr-15	Apr-16
130	138	170	110	120
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21
160	120	150	180	92

MW-15

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
ND	ND	ND	ND	ND
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
ND	ND	ND	ND	ND
Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
ND	ND	ND	ND	ND
Oct-19	Apr-20	Oct-20	Apr-21	Oct-21
ND	ND	ND	ND	ND

MW-4

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
ND	ND	4.06	ND	4.06
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
ND	ND	ND	ND	ND
Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
ND	ND	ND	ND	ND
Oct-19	Apr-20	Oct-20	Apr-21	Oct-21
ND	ND	ND	ND	ND

MW-13

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
480	640	381	480	310
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
190	180	400 D	130	96
Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
250 D	110	51	140	34
Oct-19	Apr-20	Oct-20	Apr-21	Oct-21
58	340 D	29	ND	140

PW-1

Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
130	150	105	140	120
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16
110	69	98	79	92
Apr-17	Apr-16	Oct-16	Apr-19	Oct-19
41	14	22	15	38
Apr-20	Oct-20	Apr-21	Oct-21	
14	42	37	23	

MW-3A

Apr-12	Apr-13	Apr-14	Apr-15	Apr-16
210	190	280	260	350
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21
280	190	130	220 D	200

MW-17

Apr-12	Apr-13	Apr-14	Apr-15	Apr-16
370	324	440	400	340
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21
500 D	470	440	440	350

MW-19

Apr-12	Apr-13	Apr-14	Apr-15	Apr-16
ND	ND	ND	ND	ND
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21
ND	ND	ND	ND	ND

MW-18

Apr-12	Apr-13	Apr-14	Apr-15	Apr-16
ND	ND	ND	ND	ND
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21
ND	ND	ND	ND	ND

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.

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

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

Record & Return to:
Barclay Damon LLP
2500 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: [Signature]

Print Name: Daniel J. Maier

Title: Vice President of Finance Date: 05/07, 2020

Grantor's Acknowledgment

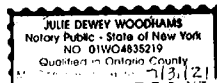
STATE OF NEW YORK)
)ss:
COUNTY OF ONTARIO)

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.

[Signature]
Signature

Notary Stamp & Expiration Date: 11/31/21

Notary Public State of New York



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 ID 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 lands 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

Date: 1/29/2021 Time: 1000 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	System off on HH condensate alarm. System never calle
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
List any active alarms including date/time of occurrence:	<u>Last month decreased vacuum, not increased, to try and limit condensate generation</u>		

Record electric meter reading (kWh) NA Record blower runtime (hours) 38283

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-78</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-85</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-80</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-77.4</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-78</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-80</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-88</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-80</u>
(transmitter VT-201)	<u>-77.4</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-82</u>
Knockout tank level (inches in site gauge)	<u>Full</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-82</u>
Influent temperature (TI-102)	<u>50</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>116</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>71 / 119</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>197 / 205</u>		
Combined Air Velocity (fpm)	<u>203</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 1/29/2021 Time: 1000 Technician: NJB

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>65</u>		

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	-8.81	No
VMP-2	-0.019	No
VMP-3	-0.606	Yes
VMP-4	-0.001	No
VMP-5	-0.053	Yes
VMP-6	-0.031	No
VMP-7	-0.01	No
VMP-8	-0.01	No
VMP-9	-0.033	No
VMP-10	-0.023	No
VMP-11	-0.08	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, PID Screen		Grab			7.1
SDS-2	No, PID Screen		Grab			6.0
Combined Influent	No, PID Screen		Grab			5.9
Pre-VPGAC4	No		Grab			
Post-Dilution Eff	No		Grab			
Post-Blower Eff	No, PID Screen		Grab			0.0

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



Date: 1/29/2021 Time: 1000 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 2/23/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: Last month decreased vacuum, not increased, to try and limit condensate generation

Record electric meter reading (kWh) NA Record blower runtime (hours) 38283

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-80</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-82</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-78</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-74.7</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-70</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-78</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-88</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-80</u>
(transmitter VT-201)	<u>-74.7</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-80</u>
Knockout tank level (inches in site gauge)	<u>20"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-80</u>
Influent temperature (TI-102)	<u>64</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>140</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>160 / 622</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>556 / 545</u>		
Combined Air Velocity (fpm)	<u>415</u>	<u>Too much moisture in the line.</u>	

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 2/23/2021 Time: 900 Technician: NJB

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>65</u>		

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	-9.51	No
VMP-2	-0.024	No
VMP-3	-0.044	Yes
VMP-4	-0.001	No
VMP-5	-0.024	Yes
VMP-6	-0.035	No
VMP-7	-0.01	No
VMP-8	-0.01	No
VMP-9	-0.025	No
VMP-10	-0.014	No
VMP-11	-0.051	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, PID Screen		Grab			7.6
SDS-2	No, PID Screen		Grab			6.1
Combined Influent	No, PID Screen		Grab			5.5
Pre-VPGAC4	No		Grab			NA
Post-Dilution Eff	No		Grab			NA
Post-Blower Eff	No, PID Screen		Grab			0.0

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



Date: 2/23/2021 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 3/29/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Power failure 3/28/21
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
List any active alarms including date/time of occurrence:	<u>Last month decreased vacuum, not increased, to try and limit condensate generation</u>		

Record electric meter reading (kWh) NA Record blower runtime (hours) 39694.4

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-80</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-86</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-80</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-75.8</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-78</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-80</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-90</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-80</u>
(transmitter VT-201)	<u>-75.8</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-80</u>
Knockout tank level (inches in site gauge)	<u>15"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-80</u>
Influent temperature (TI-102)	<u>56</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>140</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>61/130</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>207 / 163</u>		
Combined Air Velocity (fpm)	<u>281</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 3/29/2021 Time: 900 Technician: NJB

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>65</u>		

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	-9.614	No
VMP-2	-0.022	No
VMP-3	-0.035	No
VMP-4	-0.002	No
VMP-5	-0.023	No
VMP-6	-0.047	No
VMP-7	-0.049	No
VMP-8	-0.014	No
VMP-9	-0.048	No
VMP-10	-0.043	No
VMP-11	-0.024	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, PID Screen		Grab			5.1
SDS-2	No, PID Screen		Grab			3.9
Combined Influent	No, PID Screen		Grab			7.0
Pre-VPGAC4	No		Grab			NA
Post-Dilution Eff	No		Grab			NA
Post-Blower Eff	No, PID Screen		Grab			0.0

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



Date: 3/29/2021 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 4/30/2021 Time: 1230 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 40478.8

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-78</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-84</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-78</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-74</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-76</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-78</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-87</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-80</u>
(transmitter VT-201)	<u>-74</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-82</u>
Knockout tank level (inches in site gauge)	<u>2.5"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-80</u>
Influent temperature (TI-102)	<u>64</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>152</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>74 / 110</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>175 / 213</u>		
Combined Air Velocity (fpm)	<u>282</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 4/30/2021 Time: 1230 Technician: NJB

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	-9.402	No
VMP-2	-0.02	No
VMP-3	-0.662	No
VMP-4	-0.002	No
VMP-5	-0.051	No
VMP-6	-0.016	No
VMP-7	-0.013	No
VMP-8	-0.014	No
VMP-9	-0.055	No
VMP-10	-0.043	No
VMP-11	-0.125	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, PID Screen		Grab			7.5
SDS-2	No, PID Screen		Grab			3.6
Combined Influent	No, PID Screen		Grab			4.2
Pre-VPGAC4	No		Grab			NA
Post-Dilution Eff	No		Grab			NA
Post-Blower Eff	No, PID Screen		Grab			0.0

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



Date: 4/30/2021 Time: 1230 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 5/24/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Power failure alarm 5/23/21 0957. Hard reset and restart
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 40979.1

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-80</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-84</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-78</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-74.7</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-78</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-78</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-86</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-78</u>
(transmitter VT-201)	<u>-74.7</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-89</u>
Knockout tank level (inches in site gauge)	<u>3.5"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-80</u>
Influent temperature (TI-102)	<u>64</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>158</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>72 / 155</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>155 / 164</u>		
Combined Air Velocity (fpm)	<u>275</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 5/24/2021 Time: 900 Technician: NJB

System Status

Is blower running?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Power failure alarm 5/23/21. Hard reset and restarted system.
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PID field screen
Indicate indoor air temperature (°F):	<u>65</u>		None

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	-9.569	No
VMP-2	-0.024	No
VMP-3	-0.684	No
VMP-4	NA	No
VMP-5	-0.05	No
VMP-6	-0.051	No
VMP-7	-0.016	No
VMP-8	-0.015	No
VMP-9	-0.052	No
VMP-10	-0.038	No
VMP-11	-0.117	No
VMP-12	Abandoned	--

Barrel stock on top of location

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, PID Screen	940	Grab	NA	NA	6.1
SDS-2	No, PID Screen	945	Grab	NA	NA	4.4
Combined Influent	No, PID Screen	950	Grab	NA	NA	4.0
Pre-VPGAC4	No		Grab			
Post-Dilution Eff	No		Grab			
Post-Blower Eff	No, PID Screen	955	Grab	NA	NA	0.0

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



Date: 5/24/2021 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 6/29/2021 Time: 1000 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 41856.9

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-92</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-92</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-92</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-88.8</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-92</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-93</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-102</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-94</u>
(transmitter VT-201)	<u>-92</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-96</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-94</u>
Influent temperature (TI-102)	<u>82</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>192</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>95 / 112</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>233 / 201</u>		
Combined Air Velocity (fpm)	<u>311</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 6/29/2021 Time: 1000 Technician: NJB

System Status

Is blower running?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen and Summa Cans
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>90</u>		

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	-11.21	No	
VMP-2	-0.043	No	
VMP-3	-0.89	No	
VMP-4	NA	No	Barrel stock on top of location
VMP-5	-0.054	No	
VMP-6	-0.083	No	
VMP-7	-0.025	No	
VMP-8	-0.046	No	equipment to be relocated, location should be abandoned and reinstalled
VMP-9	-0.066	No	
VMP-10	-0.102	No	
VMP-11	NA	No	Barrel stock on top of location. Equipment to be relocated, location should be abandoned and reinstalled
VMP-12	Abandoned	--	

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	Yes	1010	Grab	-30	-7	10.6
SDS-2	Yes	1015	Grab	-30	-7	5.9
Combined Influent	Yes	1020	Grab	-30	-7	6.7
Pre-VPGAC4	Yes	1025	Grab	-30	-7	7.1
Post-Dilution Eff	Yes	1030	Grab	-30	-7	0.0
Post-Blower Eff	Yes	1035	Grab	-30	0	0.0

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



Date: 6/29/2021 Time: 1000 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	Yes	No Pre-VPGAC-2, Pre-VPGAC-3 Sample
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.

Date: 7/27/2021 Time: 1000 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 42383

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-94</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-98</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-92</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-88.5</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-90</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-93</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-100</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-94</u>
(transmitter VT-201)	<u>-92</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-97</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-94</u>
Influent temperature (TI-102)	<u>80</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>190</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>NA</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>NA</u>		
Combined Air Velocity (fpm)	<u>NA</u>		

FPM probe malfunction. Not able to get readings.

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 7/27/2021 Time: 1000 Technician: NJB

System Status

Is blower running?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>85</u>		

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	-10.628	No
VMP-2	-0.041	No
VMP-3	-0.617	No
VMP-4	NA	No
VMP-5	-0.063	No
VMP-6	-0.075	No
VMP-7	-0.018	No
VMP-8	Abandoned 7/15/21	No
VMP-9	-0.089	No
VMP-10	-0.056	No
VMP-11	Abandoned 7/15/21	No
VMP-12	Abandoned	--

Barrel stock on top of location

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, Field PID only	NA	Grab	NA	NA	10.1
SDS-2	No, Field PID only	NA	Grab	NA	NA	6.7
Combined Influent	No, Field PID only	NA	Grab	NA	NA	7.1
Pre-VPGAC4	No	NA	Grab	NA	NA	NA
Post-Dilution Eff	No	NA	Grab	NA	NA	NA
Post-Blower Eff	No, Field PID only	NA	Grab	NA	NA	0.0

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



Date: 7/27/2021 Time: 1000 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.

Date: 8/30/2021 Time: 1000 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 43210.6

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-83</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-90</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-83</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-78.1</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-80</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-83</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-92</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-84</u>
(transmitter VT-201)	<u>-78.1</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-87</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-84</u>
Influent temperature (TI-102)	<u>78</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>172</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>NA</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>NA</u>		
Combined Air Velocity (fpm)	<u>NA</u>		

FPM probe malfunction. Not able to get readings.

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 8/30/2021 Time: 1000 Technician: NJB

System Status

Is blower running?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>85</u>		

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	-9.845	No
VMP-2	-0.037	No
VMP-3	-0.837	No
VMP-4	-0.005	No
VMP-5	-0.0004	No
VMP-6	-0.059	No
VMP-7	-0.018	No
VMP-8	Abandoned 7/15/21	No
VMP-9	-0.078	No
VMP-10	-0.047	No
VMP-11	Abandoned 7/15/21	No
VMP-12	Abandoned	--

Barrel stock on top of location

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, Field PID only	NA	Grab	NA	NA	0.0
SDS-2	No, Field PID only	NA	Grab	NA	NA	10.7
Combined Influent	No, Field PID only	NA	Grab	NA	NA	10.7
Pre-VPGAC4	No	NA	Grab	NA	NA	NA
Post-Dilution Eff	No	NA	Grab	NA	NA	NA
Post-Blower Eff	No, Field PID only	NA	Grab	NA	NA	0.0

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



Date: 8/30/2021 Time: 1000 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.

Date: 9/28/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 43917.7

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-84</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-90</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-84</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-79.3</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-80</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-84</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-92</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-84</u>
(transmitter VT-201)	<u>-79.3</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-87</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-84</u>
Influent temperature (TI-102)	<u>70</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>162</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>80/90</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>178/207</u>		
Combined Air Velocity (fpm)	<u>248</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 9/28/2021 Time: 900 Technician: NJB

System Status

Is blower running?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>85</u>		

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	-10.006	No
VMP-2	-0.03	No
VMP-3	-0.857	No
VMP-4	Abandoned 8/30/21	No
VMP-5	-0.003	No
VMP-6	-0.055	No
VMP-7	-0.02	No
VMP-8	Abandoned 7/15/21	No
VMP-9	-0.076	No
VMP-10	-0.051	No
VMP-11	Abandoned 7/15/21	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, Field PID only	NA	Grab	NA	NA	5.1
SDS-2	No, Field PID only	NA	Grab	NA	NA	3.1
Combined Influent	No, Field PID only	NA	Grab	NA	NA	4.1
Pre-VPGAC4	No	NA	Grab	NA	NA	NA
Post-Dilution Eff	No	NA	Grab	NA	NA	NA
Post-Blower Eff	No, Field PID only	NA	Grab	NA	NA	0.0

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



Date: 9/28/2021 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.

Date: 10/28/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 44651.1

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-84</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-90</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-84</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-79.3</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-82</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-84</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-92</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-88</u>
(transmitter VT-201)	<u>-79.3</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-86</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-88</u>
Influent temperature (TI-102)	<u>68</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>160</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>75/98</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>220/200</u>		
Combined Air Velocity (fpm)	<u>225</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 10/28/2021 Time: 900 Technician: NJB

System Status

Is blower running?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Notes
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	-7.275	No	
VMP-2	-0.017	No	
VMP-3	-0.841	No	
VMP-4	-0.02	No	Abandoned 8/30/21, Reinstalled 10/28/21
VMP-5	-0.04	No	
VMP-6	-0.017	No	
VMP-7	-0.01	No	
VMP-8	-0.407	No	Abandoned 7/15/21, Reinstalled 10/28/21
VMP-9	-0.044	No	
VMP-10	-0.03	No	
VMP-11	-0.167	No	Abandoned 7/15/21, Reinstalled 10/28/21
VMP-12	Abandoned	--	

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, Field PID only	NA	Grab	NA	NA	5.5
SDS-2	No, Field PID only	NA	Grab	NA	NA	5.2
Combined Influent	No, Field PID only	NA	Grab	NA	NA	5.8
Pre-VPGAC4	No, Field PID only	NA	Grab	NA	NA	4.4
Post-Dilution Eff	No, Field PID only	NA	Grab	NA	NA	0.3
Post-Blower Eff	No, Field PID only	NA	Grab	NA	NA	0.0

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



Date: 10/28/2021 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.

Date: 11/30/2021 Time: 1000 Technician: ADR

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 45453.8

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-84</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-90</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-85</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-80.9</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-80</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-84</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-94</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-86</u>
(transmitter VT-201)	<u>-80.9</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-88</u>
Knockout tank level (inches in site gauge)	<u>10"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-86</u>
Influent temperature (TI-102)	<u>57</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>148</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>65/130</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>205/180</u>		
Combined Air Velocity (fpm)	<u>265</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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: Tubing for knock-out tank/condensate drain needs to be replaced.

Date: 11/30/2021 Time: 1000 Technician: ADR

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>65</u>		

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	-9.566	No
VMP-2	-0.012	No
VMP-3	-0.832	No
VMP-4	-0.02	No
VMP-5	-0.042	No
VMP-6	-0.015	No
VMP-7	-0.008	No
VMP-8	-0.403	No
VMP-9	-0.041	No
VMP-10	-0.026	No
VMP-11	-0.156	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	No, Field PID only	NA	Grab	NA	NA	2.5
SDS-2	No, Field PID only	NA	Grab	NA	NA	2.7
Combined Influent	No, Field PID only	NA	Grab	NA	NA	8.0
Pre-VPGAC4	No, Field PID only	NA	Grab	NA	NA	4.1
Post-Dilution Eff	No, Field PID only	NA	Grab	NA	NA	0.1
Post-Blower Eff	No, Field PID only	NA	Grab	NA	NA	0.0

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



Date: 11/30/2021 Time: 1000 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	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.

Date: 12/29/2021 Time: 900 Technician: NJB

SYSTEM STATUS

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Is virtual hand-off-auto switch in the "auto" position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Are electrical panel doors securely closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

List any active alarms including date/time of occurrence: _____

Record electric meter reading (kWh) NA Record blower runtime (hours) 46159.8

SYSTEM PARAMETERS

SDS-1 applied vacuum (in w.c.) (VI-001)	<u>-84</u>	Post-air filter/pre-VPGAC-101 vacuum (in w.c.) (VI-102)	<u>-90</u>
SDS-1 header vacuum (in w.c.) (VI-101)	<u>-94</u>	Pre-VPGAC-101 vacuum (in w.c.) (VI-103)	<u>0</u>
(transmitter VT-101)	<u>-80</u>	Pre-VPGAC-102 vacuum (in w.c.) (VI-104)	<u>0</u>
SDS-2 applied vacuum (in w.c.) (VI-002)	<u>-94</u>	Pre-VPGAC-103 vacuum (in w.c.) (VI-105)	<u>-82</u>
SDS-2 header vacuum (in w.c.) (VI-201)	<u>-80</u>	Pre-VPGAC-104 vacuum (in w.c.) (VI-106)	<u>-84</u>
(transmitter VT-201)	<u>-80</u>	Post-VPGAC-104/pre-dilution vacuum (VI-107)	<u>-84</u>
Knockout tank level (inches in site gauge)	<u>0"</u>	Post-dilution/pre-blower vacuum (VI-108)	<u>-84</u>
Influent temperature (TI-102)	<u>58</u>	Post-blower pressure (in w.c.) (PI-301)	<u>0</u>
Influent flow rate (FI-101)	<u>NA</u>	Post-blower temperature (°F) (TI-301)	<u>146</u>
SDS-1 Air Velocity (fpm) (building/shed)	<u>67/166</u>		
SDS-2 Air Velocity (fpm) (building/shed)	<u>174/210</u>		
Combined Air Velocity (fpm)	<u>264</u>		

System Valve Positions

	OPENED	CLOSED		OPENED	CLOSED		OPENED	CLOSED
SDS-1 extraction point valve V-001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-111	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 extraction point valve V-002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-1 header valve V-101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V-113	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDS-2 header valve V-201	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-105	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-114	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dilution valve V-119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-106	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-115	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum relief valve V-120	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-107	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-116	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure relief valve V-301	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V-108	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-117	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-109	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V-118	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			V-110	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Date: 12/29/2021 Time: 900 Technician: NJB

System Status

	YES	NO	Notes
Is blower running?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Was monthly OM&M Log Sheet completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was instantaneous sub-slab differential pressure monitoring conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
Was air sampling conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID field screen
Was 24-hour continuous differential pressure monitoring conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Indicate indoor air temperature (°F):	<u>65</u>		

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	-10.953	No
VMP-2	-0.029	No
VMP-3	-0.891	No
VMP-4	-0.027	No
VMP-5	-0.068	No
VMP-6	-0.051	No
VMP-7	-0.016	No
VMP-8	-0.471	No
VMP-9	-0.036	No
VMP-10	-0.028	No
VMP-11	-0.173	No
VMP-12	Abandoned	--

System Vapor Sampling

Sample Location	Sample Collected (Y/N)	Time	Grab or Integrated Sample?	Canister Vacuum (inHg)		PID Measurement
				Start	Finish	
SDS-1	Yes	1010	Grab	-28	-6	NA
SDS-2	Yes	1015	Grab	-29	-6	NA
Combined Influent	Yes	1020	Grab	-29	-6	NA
Pre-VPGAC4	Yes	1025	Grab	-27	-6	NA
Post-Dilution Eff	Yes	1030	Grab	-29	-6	NA
Post-Blower Eff	Yes	1035	Grab	-29	0	NA

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



Date: 12/29/2021 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.

Appendix C

Site Inspection Form

Date: August 30, 2021 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 2021, planned for October 2021
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 disturbed by the remedial activities?	N	

Notes:

Appendix D

NYSDEC Approval to Remove Carbon Treatment

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

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

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

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

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

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Connect with us! www.arcadis.com | [LinkedIn](#) | [Twitter](#) | [Facebook](#) | [Connect App](#)



Be green, leave it on the screen.

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Table 1
SSDS Aerscreen Inputs
Crosman Corporation
Bloomfield, New York

Parameters	Crosman 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

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.

$$\text{lb/hr} = \text{ug/m}^3 \times 1 \text{ g/1,000,000 ug} \times \text{lb/453.59 g} \times \text{scfm} \times 0.028 \text{ m}^3/\text{ft}^3 \times 60 \text{ min/hr}$$

Appendix E

SSDS Laboratory Reports

ANALYTICAL REPORT

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

Laboratory Job ID: 200-59145-1
Laboratory Sample Delivery Group: 200-59145-1
Client Project/Site: Crosman Vapor

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

Attn: Christopher Davern

Elizabeth A. Nye

Authorized for release by:
7/7/2021 2:09:01 PM

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

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

Job ID: 200-59145-1
SDG: 200-59145-1

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.
α	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

Case Narrative

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

Job ID: 200-59145-1
SDG: 200-59145-1

Job ID: 200-59145-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Crosman Vapor

Report Number: 200-59145-1

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 07/02/2021; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SDS-1-062921, SDS-2-062921, CMB-INF-062921, POST-BLOWER-EFF-062921, PRE-VPGAC4-062921 and POST-DILLUTION-EFF-062921 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 07/06/2021 and 07/07/2021.

Samples SDS-1-062921[125X], SDS-1-062921[25X], SDS-2-062921[19.2X], SDS-2-062921[96.2X], CMB-INF-062921[113X], CMB-INF-062921[22.6X], POST-BLOWER-EFF-062921[10X], PRE-VPGAC4-062921[176X], PRE-VPGAC4-062921[35.2X] and POST-DILLUTION-EFF-062921[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: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-1-062921

Lab Sample ID: 200-59145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.3	0.83	ppb v/v	25		TO-15	Total/NA
Trichloroethene	3700	E	0.88	0.60	ppb v/v	25		TO-15	Total/NA
Tetrachloroethene	7.9		5.0	0.68	ppb v/v	25		TO-15	Total/NA
Trichloroethene - DL	3200	D	4.4	3.0	ppb v/v	125		TO-15	Total/NA
Tetrachloroethene - DL	7.4	J D	25	3.4	ppb v/v	125		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.4		5.0	3.3	ug/m3	25		TO-15	Total/NA
Trichloroethene	20000	E	4.7	3.2	ug/m3	25		TO-15	Total/NA
Tetrachloroethene	53		34	4.6	ug/m3	25		TO-15	Total/NA
Trichloroethene - DL	17000	D	24	16	ug/m3	125		TO-15	Total/NA
Tetrachloroethene - DL	50	J D	170	23	ug/m3	125		TO-15	Total/NA

Client Sample ID: SDS-2-062921

Lab Sample ID: 200-59145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	60		0.96	0.63	ppb v/v	19.2		TO-15	Total/NA
1,2-Dichloroethene, Total	60		7.7	3.5	ppb v/v	19.2		TO-15	Total/NA
Trichloroethene	2300	E	0.67	0.46	ppb v/v	19.2		TO-15	Total/NA
Toluene	6.3		3.8	1.8	ppb v/v	19.2		TO-15	Total/NA
Tetrachloroethene	2.3	J	3.8	0.52	ppb v/v	19.2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	57	D	4.8	3.2	ppb v/v	96.2		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	57	D	38	17	ppb v/v	96.2		TO-15	Total/NA
Trichloroethene - DL	2100	D	3.4	2.3	ppb v/v	96.2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		3.8	2.5	ug/m3	19.2		TO-15	Total/NA
1,2-Dichloroethene, Total	240		30	14	ug/m3	19.2		TO-15	Total/NA
Trichloroethene	13000	E	3.6	2.5	ug/m3	19.2		TO-15	Total/NA
Toluene	24		14	6.7	ug/m3	19.2		TO-15	Total/NA
Tetrachloroethene	16	J	26	3.5	ug/m3	19.2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	220	D	19	13	ug/m3	96.2		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	230	D	150	69	ug/m3	96.2		TO-15	Total/NA
Trichloroethene - DL	11000	D	18	12	ug/m3	96.2		TO-15	Total/NA

Client Sample ID: CMB-INF-062921

Lab Sample ID: 200-59145-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	52		1.1	0.75	ppb v/v	22.6		TO-15	Total/NA
1,2-Dichloroethene, Total	52		9.0	4.1	ppb v/v	22.6		TO-15	Total/NA
Trichloroethene	3100	E	0.79	0.54	ppb v/v	22.6		TO-15	Total/NA
Tetrachloroethene	4.4	J	4.5	0.61	ppb v/v	22.6		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	52	D	5.7	3.7	ppb v/v	113		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	52	D	45	20	ppb v/v	113		TO-15	Total/NA
Trichloroethene - DL	2700	D	4.0	2.7	ppb v/v	113		TO-15	Total/NA
Tetrachloroethene - DL	4.0	J D	23	3.1	ppb v/v	113		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		4.5	3.0	ug/m3	22.6		TO-15	Total/NA
1,2-Dichloroethene, Total	210		36	16	ug/m3	22.6		TO-15	Total/NA
Trichloroethene	17000	E	4.3	2.9	ug/m3	22.6		TO-15	Total/NA
Tetrachloroethene	30	J	31	4.1	ug/m3	22.6		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	210	D	22	15	ug/m3	113		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	210	D	180	81	ug/m3	113		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: CMB-INF-062921 (Continued)

Lab Sample ID: 200-59145-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	15000	D	21	15	ug/m3	113		TO-15	Total/NA
Tetrachloroethene - DL	27	J D	150	21	ug/m3	113		TO-15	Total/NA

Client Sample ID: POST-BLOWER-EFF-062921

Lab Sample ID: 200-59145-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.40		0.35	0.29	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	31		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	31		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Trichloroethene	0.42		0.35	0.24	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.6		1.4	1.1	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	120		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	120		16	7.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	2.3		1.9	1.3	ug/m3	10		TO-15	Total/NA

Client Sample ID: PRE-VPGAC4-062921

Lab Sample ID: 200-59145-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	91		1.8	1.2	ppb v/v	35.2		TO-15	Total/NA
1,2-Dichloroethene, Total	91		14	6.3	ppb v/v	35.2		TO-15	Total/NA
Trichloroethene	4100	E	1.2	0.84	ppb v/v	35.2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	93	D	8.8	5.8	ppb v/v	176		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	93	D	70	32	ppb v/v	176		TO-15	Total/NA
Trichloroethene - DL	3900	D	6.2	4.2	ppb v/v	176		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	360		7.0	4.6	ug/m3	35.2		TO-15	Total/NA
1,2-Dichloroethene, Total	360		56	25	ug/m3	35.2		TO-15	Total/NA
Trichloroethene	22000	E	6.6	4.5	ug/m3	35.2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	370	D	35	23	ug/m3	176		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	370	D	280	130	ug/m3	176		TO-15	Total/NA
Trichloroethene - DL	21000	D	33	23	ug/m3	176		TO-15	Total/NA

Client Sample ID: POST-DILLUTION-EFF-062921

Lab Sample ID: 200-59145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.39		0.35	0.29	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	25		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	25		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1.8		0.35	0.24	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.6		1.4	1.1	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	99		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	99		16	7.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	9.6		1.9	1.3	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-1-062921

Lab Sample ID: 200-59145-1

Date Collected: 06/29/21 10:10

Matrix: Air

Date Received: 07/02/21 10:30

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			07/06/21 22:54	25
1,1-Dichloroethene	0.88	U	0.88	0.73	ppb v/v			07/06/21 22:54	25
Acetone	130	U	130	50	ppb v/v			07/06/21 22:54	25
Methylene Chloride	13	U	13	4.3	ppb v/v			07/06/21 22:54	25
trans-1,2-Dichloroethene	5.0	U	5.0	2.2	ppb v/v			07/06/21 22:54	25
1,1-Dichloroethane	5.0	U	5.0	0.73	ppb v/v			07/06/21 22:54	25
cis-1,2-Dichloroethene	1.4		1.3	0.83	ppb v/v			07/06/21 22:54	25
1,2-Dichloroethene, Total	10	U	10	4.5	ppb v/v			07/06/21 22:54	25
1,1,1-Trichloroethane	5.0	U	5.0	0.98	ppb v/v			07/06/21 22:54	25
Carbon tetrachloride	0.88	U	0.88	0.80	ppb v/v			07/06/21 22:54	25
Benzene	5.0	U	5.0	1.9	ppb v/v			07/06/21 22:54	25
Trichloroethene	3700	E	0.88	0.60	ppb v/v			07/06/21 22:54	25
Toluene	5.0	U	5.0	2.3	ppb v/v			07/06/21 22:54	25
Tetrachloroethene	7.9		5.0	0.68	ppb v/v			07/06/21 22:54	25
Chlorobenzene	5.0	U	5.0	1.1	ppb v/v			07/06/21 22:54	25
m,p-Xylene	13	U	13	4.3	ppb v/v			07/06/21 22:54	25
Xylene, o-	5.0	U	5.0	2.4	ppb v/v			07/06/21 22:54	25
Bromoform	5.0	U	5.0	1.5	ppb v/v			07/06/21 22:54	25
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ppb v/v			07/06/21 22:54	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	1.8	ug/m3			07/06/21 22:54	25
1,1-Dichloroethene	3.5	U	3.5	2.9	ug/m3			07/06/21 22:54	25
Acetone	300	U	300	120	ug/m3			07/06/21 22:54	25
Methylene Chloride	43	U	43	15	ug/m3			07/06/21 22:54	25
trans-1,2-Dichloroethene	20	U	20	8.7	ug/m3			07/06/21 22:54	25
1,1-Dichloroethane	20	U	20	2.9	ug/m3			07/06/21 22:54	25
cis-1,2-Dichloroethene	5.4		5.0	3.3	ug/m3			07/06/21 22:54	25
1,2-Dichloroethene, Total	40	U	40	18	ug/m3			07/06/21 22:54	25
1,1,1-Trichloroethane	27	U	27	5.3	ug/m3			07/06/21 22:54	25
Carbon tetrachloride	5.5	U	5.5	5.0	ug/m3			07/06/21 22:54	25
Benzene	16	U	16	5.9	ug/m3			07/06/21 22:54	25
Trichloroethene	20000	E	4.7	3.2	ug/m3			07/06/21 22:54	25
Toluene	19	U	19	8.8	ug/m3			07/06/21 22:54	25
Tetrachloroethene	53		34	4.6	ug/m3			07/06/21 22:54	25
Chlorobenzene	23	U	23	4.9	ug/m3			07/06/21 22:54	25
m,p-Xylene	54	U	54	18	ug/m3			07/06/21 22:54	25
Xylene, o-	22	U	22	10	ug/m3			07/06/21 22:54	25
Bromoform	52	U	52	15	ug/m3			07/06/21 22:54	25
1,1,2,2-Tetrachloroethane	34	U	34	7.4	ug/m3			07/06/21 22:54	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	9.8	U	9.8	3.5	ppb v/v			07/06/21 23:48	125
1,1-Dichloroethene	4.4	U	4.4	3.6	ppb v/v			07/06/21 23:48	125
Acetone	630	U	630	250	ppb v/v			07/06/21 23:48	125
Methylene Chloride	63	U	63	21	ppb v/v			07/06/21 23:48	125
trans-1,2-Dichloroethene	25	U	25	11	ppb v/v			07/06/21 23:48	125
1,1-Dichloroethane	25	U	25	3.6	ppb v/v			07/06/21 23:48	125

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-1-062921

Lab Sample ID: 200-59145-1

Date Collected: 06/29/21 10:10

Matrix: Air

Date Received: 07/02/21 10:30

Sample Container: Summa Canister 1L

Method: 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	6.3	U	6.3	4.1	ppb v/v			07/06/21 23:48	125
1,2-Dichloroethene, Total	50	U	50	23	ppb v/v			07/06/21 23:48	125
1,1,1-Trichloroethane	25	U	25	4.9	ppb v/v			07/06/21 23:48	125
Carbon tetrachloride	4.4	U	4.4	4.0	ppb v/v			07/06/21 23:48	125
Benzene	25	U	25	9.3	ppb v/v			07/06/21 23:48	125
Trichloroethene	3200	D	4.4	3.0	ppb v/v			07/06/21 23:48	125
Toluene	25	U	25	12	ppb v/v			07/06/21 23:48	125
Tetrachloroethene	7.4	J D	25	3.4	ppb v/v			07/06/21 23:48	125
Chlorobenzene	25	U	25	5.4	ppb v/v			07/06/21 23:48	125
m,p-Xylene	63	U	63	21	ppb v/v			07/06/21 23:48	125
Xylene, o-	25	U	25	12	ppb v/v			07/06/21 23:48	125
Bromoform	25	U	25	7.3	ppb v/v			07/06/21 23:48	125
1,1,2,2-Tetrachloroethane	25	U	25	5.4	ppb v/v			07/06/21 23:48	125

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	25	U	25	8.9	ug/m3			07/06/21 23:48	125
1,1-Dichloroethene	17	U	17	14	ug/m3			07/06/21 23:48	125
Acetone	1500	U	1500	590	ug/m3			07/06/21 23:48	125
Methylene Chloride	220	U	220	74	ug/m3			07/06/21 23:48	125
trans-1,2-Dichloroethene	99	U	99	44	ug/m3			07/06/21 23:48	125
1,1-Dichloroethane	100	U	100	15	ug/m3			07/06/21 23:48	125
cis-1,2-Dichloroethene	25	U	25	16	ug/m3			07/06/21 23:48	125
1,2-Dichloroethene, Total	200	U	200	89	ug/m3			07/06/21 23:48	125
1,1,1-Trichloroethane	140	U	140	27	ug/m3			07/06/21 23:48	125
Carbon tetrachloride	28	U	28	25	ug/m3			07/06/21 23:48	125
Benzene	80	U	80	30	ug/m3			07/06/21 23:48	125
Trichloroethene	17000	D	24	16	ug/m3			07/06/21 23:48	125
Toluene	94	U	94	44	ug/m3			07/06/21 23:48	125
Tetrachloroethene	50	J D	170	23	ug/m3			07/06/21 23:48	125
Chlorobenzene	120	U	120	25	ug/m3			07/06/21 23:48	125
m,p-Xylene	270	U	270	92	ug/m3			07/06/21 23:48	125
Xylene, o-	110	U	110	51	ug/m3			07/06/21 23:48	125
Bromoform	260	U	260	75	ug/m3			07/06/21 23:48	125
1,1,2,2-Tetrachloroethane	170	U	170	37	ug/m3			07/06/21 23:48	125

Client Sample ID: SDS-2-062921

Lab Sample ID: 200-59145-2

Date Collected: 06/29/21 10:15

Matrix: Air

Date Received: 07/02/21 10:30

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	1.5	U	1.5	0.54	ppb v/v			07/07/21 00:43	19.2
1,1-Dichloroethene	0.67	U	0.67	0.56	ppb v/v			07/07/21 00:43	19.2
Acetone	96	U	96	38	ppb v/v			07/07/21 00:43	19.2
Methylene Chloride	9.6	U	9.6	3.3	ppb v/v			07/07/21 00:43	19.2
trans-1,2-Dichloroethene	3.8	U	3.8	1.7	ppb v/v			07/07/21 00:43	19.2
1,1-Dichloroethane	3.8	U	3.8	0.56	ppb v/v			07/07/21 00:43	19.2
cis-1,2-Dichloroethene	60		0.96	0.63	ppb v/v			07/07/21 00:43	19.2
1,2-Dichloroethene, Total	60		7.7	3.5	ppb v/v			07/07/21 00:43	19.2

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-2-062921

Lab Sample ID: 200-59145-2

Date Collected: 06/29/21 10:15

Matrix: Air

Date Received: 07/02/21 10:30

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
1,1,1-Trichloroethane	3.8	U	3.8	0.75	ppb v/v			07/07/21 00:43	19.2
Carbon tetrachloride	0.67	U	0.67	0.61	ppb v/v			07/07/21 00:43	19.2
Benzene	3.8	U	3.8	1.4	ppb v/v			07/07/21 00:43	19.2
Trichloroethene	2300	E	0.67	0.46	ppb v/v			07/07/21 00:43	19.2
Toluene	6.3		3.8	1.8	ppb v/v			07/07/21 00:43	19.2
Tetrachloroethene	2.3	J	3.8	0.52	ppb v/v			07/07/21 00:43	19.2
Chlorobenzene	3.8	U	3.8	0.83	ppb v/v			07/07/21 00:43	19.2
m,p-Xylene	9.6	U	9.6	3.3	ppb v/v			07/07/21 00:43	19.2
Xylene, o-	3.8	U	3.8	1.8	ppb v/v			07/07/21 00:43	19.2
Bromoform	3.8	U	3.8	1.1	ppb v/v			07/07/21 00:43	19.2
1,1,2,2-Tetrachloroethane	3.8	U	3.8	0.83	ppb v/v			07/07/21 00:43	19.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.8	U	3.8	1.4	ug/m3			07/07/21 00:43	19.2
1,1-Dichloroethene	2.7	U	2.7	2.2	ug/m3			07/07/21 00:43	19.2
Acetone	230	U	230	91	ug/m3			07/07/21 00:43	19.2
Methylene Chloride	33	U	33	11	ug/m3			07/07/21 00:43	19.2
trans-1,2-Dichloroethene	15	U	15	6.7	ug/m3			07/07/21 00:43	19.2
1,1-Dichloroethane	16	U	16	2.3	ug/m3			07/07/21 00:43	19.2
cis-1,2-Dichloroethene	240		3.8	2.5	ug/m3			07/07/21 00:43	19.2
1,2-Dichloroethene, Total	240		30	14	ug/m3			07/07/21 00:43	19.2
1,1,1-Trichloroethane	21	U	21	4.1	ug/m3			07/07/21 00:43	19.2
Carbon tetrachloride	4.2	U	4.2	3.9	ug/m3			07/07/21 00:43	19.2
Benzene	12	U	12	4.5	ug/m3			07/07/21 00:43	19.2
Trichloroethene	13000	E	3.6	2.5	ug/m3			07/07/21 00:43	19.2
Toluene	24		14	6.7	ug/m3			07/07/21 00:43	19.2
Tetrachloroethene	16	J	26	3.5	ug/m3			07/07/21 00:43	19.2
Chlorobenzene	18	U	18	3.8	ug/m3			07/07/21 00:43	19.2
m,p-Xylene	42	U	42	14	ug/m3			07/07/21 00:43	19.2
Xylene, o-	17	U	17	7.8	ug/m3			07/07/21 00:43	19.2
Bromoform	40	U	40	12	ug/m3			07/07/21 00:43	19.2
1,1,2,2-Tetrachloroethane	26	U	26	5.7	ug/m3			07/07/21 00:43	19.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.5	U	7.5	2.7	ppb v/v			07/07/21 01:37	96.2
1,1-Dichloroethene	3.4	U	3.4	2.8	ppb v/v			07/07/21 01:37	96.2
Acetone	480	U	480	190	ppb v/v			07/07/21 01:37	96.2
Methylene Chloride	48	U	48	16	ppb v/v			07/07/21 01:37	96.2
trans-1,2-Dichloroethene	19	U	19	8.5	ppb v/v			07/07/21 01:37	96.2
1,1-Dichloroethane	19	U	19	2.8	ppb v/v			07/07/21 01:37	96.2
cis-1,2-Dichloroethene	57	D	4.8	3.2	ppb v/v			07/07/21 01:37	96.2
1,2-Dichloroethene, Total	57	D	38	17	ppb v/v			07/07/21 01:37	96.2
1,1,1-Trichloroethane	19	U	19	3.8	ppb v/v			07/07/21 01:37	96.2
Carbon tetrachloride	3.4	U	3.4	3.1	ppb v/v			07/07/21 01:37	96.2
Benzene	19	U	19	7.1	ppb v/v			07/07/21 01:37	96.2
Trichloroethene	2100	D	3.4	2.3	ppb v/v			07/07/21 01:37	96.2
Toluene	19	U	19	8.9	ppb v/v			07/07/21 01:37	96.2
Tetrachloroethene	19	U	19	2.6	ppb v/v			07/07/21 01:37	96.2

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-2-062921

Lab Sample ID: 200-59145-2

Date Collected: 06/29/21 10:15

Matrix: Air

Date Received: 07/02/21 10:30

Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	19	U	19	4.1	ppb v/v			07/07/21 01:37	96.2
m,p-Xylene	48	U	48	16	ppb v/v			07/07/21 01:37	96.2
Xylene, o-	19	U	19	9.0	ppb v/v			07/07/21 01:37	96.2
Bromoform	19	U	19	5.6	ppb v/v			07/07/21 01:37	96.2
1,1,2,2-Tetrachloroethane	19	U	19	4.1	ppb v/v			07/07/21 01:37	96.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	19	U	19	6.9	ug/m3			07/07/21 01:37	96.2
1,1-Dichloroethene	13	U	13	11	ug/m3			07/07/21 01:37	96.2
Acetone	1100	U	1100	460	ug/m3			07/07/21 01:37	96.2
Methylene Chloride	170	U	170	57	ug/m3			07/07/21 01:37	96.2
trans-1,2-Dichloroethene	76	U	76	34	ug/m3			07/07/21 01:37	96.2
1,1-Dichloroethane	78	U	78	11	ug/m3			07/07/21 01:37	96.2
cis-1,2-Dichloroethene	220	D	19	13	ug/m3			07/07/21 01:37	96.2
1,2-Dichloroethene, Total	230	D	150	69	ug/m3			07/07/21 01:37	96.2
1,1,1-Trichloroethane	100	U	100	20	ug/m3			07/07/21 01:37	96.2
Carbon tetrachloride	21	U	21	19	ug/m3			07/07/21 01:37	96.2
Benzene	61	U	61	23	ug/m3			07/07/21 01:37	96.2
Trichloroethene	11000	D	18	12	ug/m3			07/07/21 01:37	96.2
Toluene	73	U	73	34	ug/m3			07/07/21 01:37	96.2
Tetrachloroethene	130	U	130	18	ug/m3			07/07/21 01:37	96.2
Chlorobenzene	89	U	89	19	ug/m3			07/07/21 01:37	96.2
m,p-Xylene	210	U	210	71	ug/m3			07/07/21 01:37	96.2
Xylene, o-	84	U	84	39	ug/m3			07/07/21 01:37	96.2
Bromoform	200	U	200	58	ug/m3			07/07/21 01:37	96.2
1,1,2,2-Tetrachloroethane	130	U	130	28	ug/m3			07/07/21 01:37	96.2

Client Sample ID: CMB-INF-062921

Lab Sample ID: 200-59145-3

Date Collected: 06/29/21 10:20

Matrix: Air

Date Received: 07/02/21 10:30

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	1.8	U	1.8	0.63	ppb v/v			07/07/21 02:32	22.6
1,1-Dichloroethene	0.79	U	0.79	0.66	ppb v/v			07/07/21 02:32	22.6
Acetone	110	U	110	45	ppb v/v			07/07/21 02:32	22.6
Methylene Chloride	11	U	11	3.8	ppb v/v			07/07/21 02:32	22.6
trans-1,2-Dichloroethene	4.5	U	4.5	2.0	ppb v/v			07/07/21 02:32	22.6
1,1-Dichloroethane	4.5	U	4.5	0.66	ppb v/v			07/07/21 02:32	22.6
cis-1,2-Dichloroethene	52		1.1	0.75	ppb v/v			07/07/21 02:32	22.6
1,2-Dichloroethene, Total	52		9.0	4.1	ppb v/v			07/07/21 02:32	22.6
1,1,1-Trichloroethane	4.5	U	4.5	0.88	ppb v/v			07/07/21 02:32	22.6
Carbon tetrachloride	0.79	U	0.79	0.72	ppb v/v			07/07/21 02:32	22.6
Benzene	4.5	U	4.5	1.7	ppb v/v			07/07/21 02:32	22.6
Trichloroethene	3100	E	0.79	0.54	ppb v/v			07/07/21 02:32	22.6
Toluene	4.5	U	4.5	2.1	ppb v/v			07/07/21 02:32	22.6
Tetrachloroethene	4.4	J	4.5	0.61	ppb v/v			07/07/21 02:32	22.6
Chlorobenzene	4.5	U	4.5	0.97	ppb v/v			07/07/21 02:32	22.6
m,p-Xylene	11	U	11	3.8	ppb v/v			07/07/21 02:32	22.6

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: CMB-INF-062921

Lab Sample ID: 200-59145-3

Date Collected: 06/29/21 10:20

Matrix: Air

Date Received: 07/02/21 10:30

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
Xylene, o-	4.5	U	4.5	2.1	ppb v/v			07/07/21 02:32	22.6
Bromoform	4.5	U	4.5	1.3	ppb v/v			07/07/21 02:32	22.6
1,1,2,2-Tetrachloroethane	4.5	U	4.5	0.97	ppb v/v			07/07/21 02:32	22.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.5	U	4.5	1.6	ug/m3			07/07/21 02:32	22.6
1,1-Dichloroethene	3.1	U	3.1	2.6	ug/m3			07/07/21 02:32	22.6
Acetone	270	U	270	110	ug/m3			07/07/21 02:32	22.6
Methylene Chloride	39	U	39	13	ug/m3			07/07/21 02:32	22.6
trans-1,2-Dichloroethene	18	U	18	7.9	ug/m3			07/07/21 02:32	22.6
1,1-Dichloroethane	18	U	18	2.7	ug/m3			07/07/21 02:32	22.6
cis-1,2-Dichloroethene	210		4.5	3.0	ug/m3			07/07/21 02:32	22.6
1,2-Dichloroethene, Total	210		36	16	ug/m3			07/07/21 02:32	22.6
1,1,1-Trichloroethane	25	U	25	4.8	ug/m3			07/07/21 02:32	22.6
Carbon tetrachloride	5.0	U	5.0	4.5	ug/m3			07/07/21 02:32	22.6
Benzene	14	U	14	5.3	ug/m3			07/07/21 02:32	22.6
Trichloroethene	17000	E	4.3	2.9	ug/m3			07/07/21 02:32	22.6
Toluene	17	U	17	7.9	ug/m3			07/07/21 02:32	22.6
Tetrachloroethene	30	J	31	4.1	ug/m3			07/07/21 02:32	22.6
Chlorobenzene	21	U	21	4.5	ug/m3			07/07/21 02:32	22.6
m,p-Xylene	49	U	49	17	ug/m3			07/07/21 02:32	22.6
Xylene, o-	20	U	20	9.2	ug/m3			07/07/21 02:32	22.6
Bromoform	47	U	47	14	ug/m3			07/07/21 02:32	22.6
1,1,2,2-Tetrachloroethane	31	U	31	6.7	ug/m3			07/07/21 02:32	22.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.8	U	8.8	3.2	ppb v/v			07/07/21 03:27	113
1,1-Dichloroethene	4.0	U	4.0	3.3	ppb v/v			07/07/21 03:27	113
Acetone	570	U	570	230	ppb v/v			07/07/21 03:27	113
Methylene Chloride	57	U	57	19	ppb v/v			07/07/21 03:27	113
trans-1,2-Dichloroethene	23	U	23	9.9	ppb v/v			07/07/21 03:27	113
1,1-Dichloroethane	23	U	23	3.3	ppb v/v			07/07/21 03:27	113
cis-1,2-Dichloroethene	52	D	5.7	3.7	ppb v/v			07/07/21 03:27	113
1,2-Dichloroethene, Total	52	D	45	20	ppb v/v			07/07/21 03:27	113
1,1,1-Trichloroethane	23	U	23	4.4	ppb v/v			07/07/21 03:27	113
Carbon tetrachloride	4.0	U	4.0	3.6	ppb v/v			07/07/21 03:27	113
Benzene	23	U	23	8.4	ppb v/v			07/07/21 03:27	113
Trichloroethene	2700	D	4.0	2.7	ppb v/v			07/07/21 03:27	113
Toluene	23	U	23	11	ppb v/v			07/07/21 03:27	113
Tetrachloroethene	4.0	J D	23	3.1	ppb v/v			07/07/21 03:27	113
Chlorobenzene	23	U	23	4.9	ppb v/v			07/07/21 03:27	113
m,p-Xylene	57	U	57	19	ppb v/v			07/07/21 03:27	113
Xylene, o-	23	U	23	11	ppb v/v			07/07/21 03:27	113
Bromoform	23	U	23	6.6	ppb v/v			07/07/21 03:27	113
1,1,2,2-Tetrachloroethane	23	U	23	4.9	ppb v/v			07/07/21 03:27	113
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	23	U	23	8.1	ug/m3			07/07/21 03:27	113
1,1-Dichloroethene	16	U	16	13	ug/m3			07/07/21 03:27	113

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: CMB-INF-062921

Lab Sample ID: 200-59145-3

Date Collected: 06/29/21 10:20

Matrix: Air

Date Received: 07/02/21 10:30

Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	540	ug/m3			07/07/21 03:27	113
Methylene Chloride	200	U	200	67	ug/m3			07/07/21 03:27	113
trans-1,2-Dichloroethene	90	U	90	39	ug/m3			07/07/21 03:27	113
1,1-Dichloroethane	91	U	91	13	ug/m3			07/07/21 03:27	113
cis-1,2-Dichloroethene	210	D	22	15	ug/m3			07/07/21 03:27	113
1,2-Dichloroethene, Total	210	D	180	81	ug/m3			07/07/21 03:27	113
1,1,1-Trichloroethane	120	U	120	24	ug/m3			07/07/21 03:27	113
Carbon tetrachloride	25	U	25	23	ug/m3			07/07/21 03:27	113
Benzene	72	U	72	27	ug/m3			07/07/21 03:27	113
Trichloroethene	15000	D	21	15	ug/m3			07/07/21 03:27	113
Toluene	85	U	85	40	ug/m3			07/07/21 03:27	113
Tetrachloroethene	27	J D	150	21	ug/m3			07/07/21 03:27	113
Chlorobenzene	100	U	100	22	ug/m3			07/07/21 03:27	113
m,p-Xylene	250	U	250	83	ug/m3			07/07/21 03:27	113
Xylene, o-	98	U	98	46	ug/m3			07/07/21 03:27	113
Bromoform	230	U	230	68	ug/m3			07/07/21 03:27	113
1,1,2,2-Tetrachloroethane	160	U	160	33	ug/m3			07/07/21 03:27	113

Client Sample ID: POST-BLOWER-EFF-062921

Lab Sample ID: 200-59145-4

Date Collected: 06/29/21 10:35

Matrix: Air

Date Received: 07/02/21 10:30

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			07/06/21 21:05	10
1,1-Dichloroethene	0.40		0.35	0.29	ppb v/v			07/06/21 21:05	10
Acetone	50	U	50	20	ppb v/v			07/06/21 21:05	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			07/06/21 21:05	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			07/06/21 21:05	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			07/06/21 21:05	10
cis-1,2-Dichloroethene	31		0.50	0.33	ppb v/v			07/06/21 21:05	10
1,2-Dichloroethene, Total	31		4.0	1.8	ppb v/v			07/06/21 21:05	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			07/06/21 21:05	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			07/06/21 21:05	10
Benzene	2.0	U	2.0	0.74	ppb v/v			07/06/21 21:05	10
Trichloroethene	0.42		0.35	0.24	ppb v/v			07/06/21 21:05	10
Toluene	2.0	U	2.0	0.93	ppb v/v			07/06/21 21:05	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			07/06/21 21:05	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			07/06/21 21:05	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			07/06/21 21:05	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			07/06/21 21:05	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			07/06/21 21:05	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			07/06/21 21:05	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			07/06/21 21:05	10
1,1-Dichloroethene	1.6		1.4	1.1	ug/m3			07/06/21 21:05	10
Acetone	120	U	120	48	ug/m3			07/06/21 21:05	10
Methylene Chloride	17	U	17	5.9	ug/m3			07/06/21 21:05	10

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: POST-BLOWER-EFF-062921

Lab Sample ID: 200-59145-4

Date Collected: 06/29/21 10:35

Matrix: Air

Date Received: 07/02/21 10:30

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
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			07/06/21 21:05	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			07/06/21 21:05	10
cis-1,2-Dichloroethene	120		2.0	1.3	ug/m3			07/06/21 21:05	10
1,2-Dichloroethene, Total	120		16	7.1	ug/m3			07/06/21 21:05	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			07/06/21 21:05	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			07/06/21 21:05	10
Benzene	6.4	U	6.4	2.4	ug/m3			07/06/21 21:05	10
Trichloroethene	2.3		1.9	1.3	ug/m3			07/06/21 21:05	10
Toluene	7.5	U	7.5	3.5	ug/m3			07/06/21 21:05	10
Tetrachloroethene	14	U	14	1.8	ug/m3			07/06/21 21:05	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			07/06/21 21:05	10
m,p-Xylene	22	U	22	7.4	ug/m3			07/06/21 21:05	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			07/06/21 21:05	10
Bromoform	21	U	21	6.0	ug/m3			07/06/21 21:05	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			07/06/21 21:05	10

Client Sample ID: PRE-VPGAC4-062921

Lab Sample ID: 200-59145-5

Date Collected: 06/29/21 10:25

Matrix: Air

Date Received: 07/02/21 10:30

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	2.7	U	2.7	0.99	ppb v/v			07/07/21 04:22	35.2
1,1-Dichloroethene	1.2	U	1.2	1.0	ppb v/v			07/07/21 04:22	35.2
Acetone	180	U	180	70	ppb v/v			07/07/21 04:22	35.2
Methylene Chloride	18	U	18	6.0	ppb v/v			07/07/21 04:22	35.2
trans-1,2-Dichloroethene	7.0	U	7.0	3.1	ppb v/v			07/07/21 04:22	35.2
1,1-Dichloroethane	7.0	U	7.0	1.0	ppb v/v			07/07/21 04:22	35.2
cis-1,2-Dichloroethene	91		1.8	1.2	ppb v/v			07/07/21 04:22	35.2
1,2-Dichloroethene, Total	91		14	6.3	ppb v/v			07/07/21 04:22	35.2
1,1,1-Trichloroethane	7.0	U	7.0	1.4	ppb v/v			07/07/21 04:22	35.2
Carbon tetrachloride	1.2	U	1.2	1.1	ppb v/v			07/07/21 04:22	35.2
Benzene	7.0	U	7.0	2.6	ppb v/v			07/07/21 04:22	35.2
Trichloroethene	4100	E	1.2	0.84	ppb v/v			07/07/21 04:22	35.2
Toluene	7.0	U	7.0	3.3	ppb v/v			07/07/21 04:22	35.2
Tetrachloroethene	7.0	U	7.0	0.95	ppb v/v			07/07/21 04:22	35.2
Chlorobenzene	7.0	U	7.0	1.5	ppb v/v			07/07/21 04:22	35.2
m,p-Xylene	18	U	18	6.0	ppb v/v			07/07/21 04:22	35.2
Xylene, o-	7.0	U	7.0	3.3	ppb v/v			07/07/21 04:22	35.2
Bromoform	7.0	U	7.0	2.0	ppb v/v			07/07/21 04:22	35.2
1,1,2,2-Tetrachloroethane	7.0	U	7.0	1.5	ppb v/v			07/07/21 04:22	35.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.0	U	7.0	2.5	ug/m3			07/07/21 04:22	35.2
1,1-Dichloroethene	4.9	U	4.9	4.0	ug/m3			07/07/21 04:22	35.2
Acetone	420	U	420	170	ug/m3			07/07/21 04:22	35.2
Methylene Chloride	61	U	61	21	ug/m3			07/07/21 04:22	35.2
trans-1,2-Dichloroethene	28	U	28	12	ug/m3			07/07/21 04:22	35.2
1,1-Dichloroethane	28	U	28	4.1	ug/m3			07/07/21 04:22	35.2

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: PRE-VPGAC4-062921

Lab Sample ID: 200-59145-5

Date Collected: 06/29/21 10:25

Matrix: Air

Date Received: 07/02/21 10:30

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
cis-1,2-Dichloroethene	360		7.0	4.6	ug/m3			07/07/21 04:22	35.2
1,2-Dichloroethene, Total	360		56	25	ug/m3			07/07/21 04:22	35.2
1,1,1-Trichloroethane	38	U	38	7.5	ug/m3			07/07/21 04:22	35.2
Carbon tetrachloride	7.8	U	7.8	7.1	ug/m3			07/07/21 04:22	35.2
Benzene	22	U	22	8.3	ug/m3			07/07/21 04:22	35.2
Trichloroethene	22000	E	6.6	4.5	ug/m3			07/07/21 04:22	35.2
Toluene	27	U	27	12	ug/m3			07/07/21 04:22	35.2
Tetrachloroethene	48	U	48	6.4	ug/m3			07/07/21 04:22	35.2
Chlorobenzene	32	U	32	7.0	ug/m3			07/07/21 04:22	35.2
m,p-Xylene	76	U	76	26	ug/m3			07/07/21 04:22	35.2
Xylene, o-	31	U	31	14	ug/m3			07/07/21 04:22	35.2
Bromoform	73	U	73	21	ug/m3			07/07/21 04:22	35.2
1,1,2,2-Tetrachloroethane	48	U	48	10	ug/m3			07/07/21 04:22	35.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	14	U	14	4.9	ppb v/v			07/07/21 05:17	176
1,1-Dichloroethene	6.2	U	6.2	5.1	ppb v/v			07/07/21 05:17	176
Acetone	880	U	880	350	ppb v/v			07/07/21 05:17	176
Methylene Chloride	88	U	88	30	ppb v/v			07/07/21 05:17	176
trans-1,2-Dichloroethene	35	U	35	15	ppb v/v			07/07/21 05:17	176
1,1-Dichloroethane	35	U	35	5.1	ppb v/v			07/07/21 05:17	176
cis-1,2-Dichloroethene	93	D	8.8	5.8	ppb v/v			07/07/21 05:17	176
1,2-Dichloroethene, Total	93	D	70	32	ppb v/v			07/07/21 05:17	176
1,1,1-Trichloroethane	35	U	35	6.9	ppb v/v			07/07/21 05:17	176
Carbon tetrachloride	6.2	U	6.2	5.6	ppb v/v			07/07/21 05:17	176
Benzene	35	U	35	13	ppb v/v			07/07/21 05:17	176
Trichloroethene	3900	D	6.2	4.2	ppb v/v			07/07/21 05:17	176
Toluene	35	U	35	16	ppb v/v			07/07/21 05:17	176
Tetrachloroethene	35	U	35	4.8	ppb v/v			07/07/21 05:17	176
Chlorobenzene	35	U	35	7.6	ppb v/v			07/07/21 05:17	176
m,p-Xylene	88	U	88	30	ppb v/v			07/07/21 05:17	176
Xylene, o-	35	U	35	17	ppb v/v			07/07/21 05:17	176
Bromoform	35	U	35	10	ppb v/v			07/07/21 05:17	176
1,1,2,2-Tetrachloroethane	35	U	35	7.6	ppb v/v			07/07/21 05:17	176

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	35	U	35	13	ug/m3			07/07/21 05:17	176
1,1-Dichloroethene	24	U	24	20	ug/m3			07/07/21 05:17	176
Acetone	2100	U	2100	840	ug/m3			07/07/21 05:17	176
Methylene Chloride	310	U	310	100	ug/m3			07/07/21 05:17	176
trans-1,2-Dichloroethene	140	U	140	61	ug/m3			07/07/21 05:17	176
1,1-Dichloroethane	140	U	140	21	ug/m3			07/07/21 05:17	176
cis-1,2-Dichloroethene	370	D	35	23	ug/m3			07/07/21 05:17	176
1,2-Dichloroethene, Total	370	D	280	130	ug/m3			07/07/21 05:17	176
1,1,1-Trichloroethane	190	U	190	37	ug/m3			07/07/21 05:17	176
Carbon tetrachloride	39	U	39	35	ug/m3			07/07/21 05:17	176
Benzene	110	U	110	42	ug/m3			07/07/21 05:17	176
Trichloroethene	21000	D	33	23	ug/m3			07/07/21 05:17	176

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: PRE-VPGAC4-062921

Lab Sample ID: 200-59145-5

Date Collected: 06/29/21 10:25

Matrix: Air

Date Received: 07/02/21 10:30

Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	130	U	130	62	ug/m3			07/07/21 05:17	176
Tetrachloroethene	240	U	240	32	ug/m3			07/07/21 05:17	176
Chlorobenzene	160	U	160	35	ug/m3			07/07/21 05:17	176
m,p-Xylene	380	U	380	130	ug/m3			07/07/21 05:17	176
Xylene, o-	150	U	150	72	ug/m3			07/07/21 05:17	176
Bromoform	360	U	360	110	ug/m3			07/07/21 05:17	176
1,1,2,2-Tetrachloroethane	240	U	240	52	ug/m3			07/07/21 05:17	176

Client Sample ID: POST-DILLUTION-EFF-062921

Lab Sample ID: 200-59145-6

Date Collected: 06/29/21 10:30

Matrix: Air

Date Received: 07/02/21 10:30

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			07/06/21 22:00	10
1,1-Dichloroethene	0.39		0.35	0.29	ppb v/v			07/06/21 22:00	10
Acetone	50	U	50	20	ppb v/v			07/06/21 22:00	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			07/06/21 22:00	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			07/06/21 22:00	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			07/06/21 22:00	10
cis-1,2-Dichloroethene	25		0.50	0.33	ppb v/v			07/06/21 22:00	10
1,2-Dichloroethene, Total	25		4.0	1.8	ppb v/v			07/06/21 22:00	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			07/06/21 22:00	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			07/06/21 22:00	10
Benzene	2.0	U	2.0	0.74	ppb v/v			07/06/21 22:00	10
Trichloroethene	1.8		0.35	0.24	ppb v/v			07/06/21 22:00	10
Toluene	2.0	U	2.0	0.93	ppb v/v			07/06/21 22:00	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			07/06/21 22:00	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			07/06/21 22:00	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			07/06/21 22:00	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			07/06/21 22:00	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			07/06/21 22:00	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			07/06/21 22:00	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			07/06/21 22:00	10
1,1-Dichloroethene	1.6		1.4	1.1	ug/m3			07/06/21 22:00	10
Acetone	120	U	120	48	ug/m3			07/06/21 22:00	10
Methylene Chloride	17	U	17	5.9	ug/m3			07/06/21 22:00	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			07/06/21 22:00	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			07/06/21 22:00	10
cis-1,2-Dichloroethene	99		2.0	1.3	ug/m3			07/06/21 22:00	10
1,2-Dichloroethene, Total	99		16	7.1	ug/m3			07/06/21 22:00	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			07/06/21 22:00	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			07/06/21 22:00	10
Benzene	6.4	U	6.4	2.4	ug/m3			07/06/21 22:00	10
Trichloroethene	9.6		1.9	1.3	ug/m3			07/06/21 22:00	10
Toluene	7.5	U	7.5	3.5	ug/m3			07/06/21 22:00	10
Tetrachloroethene	14	U	14	1.8	ug/m3			07/06/21 22:00	10

Eurofins TestAmerica, Burlington

Client Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: POST-DILLUTION-EFF-062921

Lab Sample ID: 200-59145-6

Date Collected: 06/29/21 10:30

Matrix: Air

Date Received: 07/02/21 10:30

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
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			07/06/21 22:00	10
m,p-Xylene	22	U	22	7.4	ug/m3			07/06/21 22:00	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			07/06/21 22:00	10
Bromoform	21	U	21	6.0	ug/m3			07/06/21 22:00	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			07/06/21 22:00	10

QC Sample Results

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

Job ID: 200-59145-1
SDG: 200-59145-1

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

Lab Sample ID: MB 200-168733/4
Matrix: Air
Analysis Batch: 168733

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			07/06/21 12:51	1
1,1-Dichloroethene	0.035	U	0.035	0.029	ppb v/v			07/06/21 12:51	1
Acetone	5.0	U	5.0	2.0	ppb v/v			07/06/21 12:51	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			07/06/21 12:51	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			07/06/21 12:51	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			07/06/21 12:51	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			07/06/21 12:51	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.18	ppb v/v			07/06/21 12:51	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			07/06/21 12:51	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			07/06/21 12:51	1
Benzene	0.20	U	0.20	0.074	ppb v/v			07/06/21 12:51	1
Trichloroethene	0.035	U	0.035	0.024	ppb v/v			07/06/21 12:51	1
Toluene	0.20	U	0.20	0.093	ppb v/v			07/06/21 12:51	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			07/06/21 12:51	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			07/06/21 12:51	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			07/06/21 12:51	1
Xylene, o-	0.20	U	0.20	0.094	ppb v/v			07/06/21 12:51	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			07/06/21 12:51	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			07/06/21 12:51	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			07/06/21 12:51	1
1,1-Dichloroethene	0.14	U	0.14	0.11	ug/m3			07/06/21 12:51	1
Acetone	12	U	12	4.8	ug/m3			07/06/21 12:51	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			07/06/21 12:51	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			07/06/21 12:51	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			07/06/21 12:51	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			07/06/21 12:51	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.71	ug/m3			07/06/21 12:51	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			07/06/21 12:51	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			07/06/21 12:51	1
Benzene	0.64	U	0.64	0.24	ug/m3			07/06/21 12:51	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			07/06/21 12:51	1
Toluene	0.75	U	0.75	0.35	ug/m3			07/06/21 12:51	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			07/06/21 12:51	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			07/06/21 12:51	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			07/06/21 12:51	1
Xylene, o-	0.87	U	0.87	0.41	ug/m3			07/06/21 12:51	1
Bromoform	2.1	U	2.1	0.60	ug/m3			07/06/21 12:51	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			07/06/21 12:51	1

Lab Sample ID: LCS 200-168733/3
Matrix: Air
Analysis Batch: 168733

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Vinyl chloride	9.99	7.59		ppb v/v		76	61 - 135
1,1-Dichloroethene	10.2	8.99		ppb v/v		88	68 - 120
Acetone	10.4	7.46		ppb v/v		72	54 - 154

Eurofins TestAmerica, Burlington

QC Sample Results

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

Job ID: 200-59145-1
 SDG: 200-59145-1

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

Lab Sample ID: LCS 200-168733/3
Matrix: Air
Analysis Batch: 168733

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.2	7.74		ppb v/v		76	59 - 137
trans-1,2-Dichloroethene	10.3	8.62		ppb v/v		83	69 - 137
1,1-Dichloroethane	10.3	8.57		ppb v/v		83	66 - 130
cis-1,2-Dichloroethene	10.4	8.86		ppb v/v		85	72 - 121
1,1,1-Trichloroethane	10.3	9.38		ppb v/v		91	72 - 127
Carbon tetrachloride	10.0	9.75		ppb v/v		97	71 - 133
Benzene	10.4	9.60		ppb v/v		92	73 - 119
Trichloroethene	10.3	9.63		ppb v/v		94	73 - 122
Toluene	10.2	9.94		ppb v/v		97	75 - 122
Tetrachloroethene	10.5	7.72		ppb v/v		74	70 - 125
Chlorobenzene	10.5	9.98		ppb v/v		95	76 - 119
m,p-Xylene	20.0	19.6		ppb v/v		98	76 - 121
Xylene, o-	10.4	10.1		ppb v/v		97	73 - 123
Bromoform	10.3	11.4		ppb v/v		111	53 - 149
1,1,2,2-Tetrachloroethane	10.3	9.72		ppb v/v		94	74 - 126
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	26	19.4		ug/m3		76	61 - 135
1,1-Dichloroethene	40	35.6		ug/m3		88	68 - 120
Acetone	25	17.7		ug/m3		72	54 - 154
Methylene Chloride	36	26.9		ug/m3		76	59 - 137
trans-1,2-Dichloroethene	41	34.2		ug/m3		83	69 - 137
1,1-Dichloroethane	42	34.7		ug/m3		83	66 - 130
cis-1,2-Dichloroethene	41	35.1		ug/m3		85	72 - 121
1,1,1-Trichloroethane	56	51.2		ug/m3		91	72 - 127
Carbon tetrachloride	63	61.3		ug/m3		97	71 - 133
Benzene	33	30.7		ug/m3		92	73 - 119
Trichloroethene	55	51.8		ug/m3		94	73 - 122
Toluene	38	37.5		ug/m3		97	75 - 122
Tetrachloroethene	71	52.4		ug/m3		74	70 - 125
Chlorobenzene	48	45.9		ug/m3		95	76 - 119
m,p-Xylene	87	85.1		ug/m3		98	76 - 121
Xylene, o-	45	43.8		ug/m3		97	73 - 123
Bromoform	110	118		ug/m3		111	53 - 149
1,1,2,2-Tetrachloroethane	71	66.8		ug/m3		94	74 - 126

QC Association Summary

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

Job ID: 200-59145-1
SDG: 200-59145-1

Air - GC/MS VOA

Analysis Batch: 168733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-59145-1	SDS-1-062921	Total/NA	Air	TO-15	
200-59145-1 - DL	SDS-1-062921	Total/NA	Air	TO-15	
200-59145-2	SDS-2-062921	Total/NA	Air	TO-15	
200-59145-2 - DL	SDS-2-062921	Total/NA	Air	TO-15	
200-59145-3	CMB-INF-062921	Total/NA	Air	TO-15	
200-59145-3 - DL	CMB-INF-062921	Total/NA	Air	TO-15	
200-59145-4	POST-BLOWER-EFF-062921	Total/NA	Air	TO-15	
200-59145-5	PRE-VPGAC4-062921	Total/NA	Air	TO-15	
200-59145-5 - DL	PRE-VPGAC4-062921	Total/NA	Air	TO-15	
200-59145-6	POST-DILLUTION-EFF-062921	Total/NA	Air	TO-15	
MB 200-168733/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-168733/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

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

Job ID: 200-59145-1
SDG: 200-59145-1

Client Sample ID: SDS-1-062921

Lab Sample ID: 200-59145-1

Date Collected: 06/29/21 10:10

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		25	168733	07/06/21 22:54	WRD	TAL BUR
Total/NA	Analysis	TO-15	DL	125	168733	07/06/21 23:48	WRD	TAL BUR

Client Sample ID: SDS-2-062921

Lab Sample ID: 200-59145-2

Date Collected: 06/29/21 10:15

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		19.2	168733	07/07/21 00:43	WRD	TAL BUR
Total/NA	Analysis	TO-15	DL	96.2	168733	07/07/21 01:37	WRD	TAL BUR

Client Sample ID: CMB-INF-062921

Lab Sample ID: 200-59145-3

Date Collected: 06/29/21 10:20

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		22.6	168733	07/07/21 02:32	WRD	TAL BUR
Total/NA	Analysis	TO-15	DL	113	168733	07/07/21 03:27	WRD	TAL BUR

Client Sample ID: POST-BLOWER-EFF-062921

Lab Sample ID: 200-59145-4

Date Collected: 06/29/21 10:35

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	168733	07/06/21 21:05	WRD	TAL BUR

Client Sample ID: PRE-VPGAC4-062921

Lab Sample ID: 200-59145-5

Date Collected: 06/29/21 10:25

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		35.2	168733	07/07/21 04:22	WRD	TAL BUR
Total/NA	Analysis	TO-15	DL	176	168733	07/07/21 05:17	WRD	TAL BUR

Client Sample ID: POST-DILLUTION-EFF-062921

Lab Sample ID: 200-59145-6

Date Collected: 06/29/21 10:30

Matrix: Air

Date Received: 07/02/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	168733	07/06/21 22:00	WRD	TAL BUR

Laboratory References:

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

Eurofins TestAmerica, Burlington

Accreditation/Certification Summary

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

Job ID: 200-59145-1
SDG: 200-59145-1

Laboratory: Eurofins TestAmerica, 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	04-01-22

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: 200-59145-1
SDG: 200-59145-1

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 TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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- 17

Sample Summary

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

Job ID: 200-59145-1
SDG: 200-59145-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-59145-1	SDS-1-062921	Air	06/29/21 10:10	07/02/21 10:30	Air Canister (1-Liter) #6417
200-59145-2	SDS-2-062921	Air	06/29/21 10:15	07/02/21 10:30	Air Canister (1-Liter) #4670
200-59145-3	CMB-INF-062921	Air	06/29/21 10:20	07/02/21 10:30	Air Canister (1-Liter) #6287
200-59145-4	POST-BLOWER-EFF-062921	Air	06/29/21 10:35	07/02/21 10:30	Air Canister (1-Liter) #34002005
200-59145-5	PRE-VPAC4-062921	Air	06/29/21 10:25	07/02/21 10:30	Air Canister (1-Liter) #8442
200-59145-6	POST-DILLUTION-EFF-062921	Air	06/29/21 10:30	07/02/21 10:30	Air Canister (1-Liter) #6438

FROM: (585) 385-0090
NICHOLAS BEYRLE
Arcadis
100 Chestnut Street
Suite 1020
ROCHESTER NY 14604
US

SHIP DATE: 29 JUN 21
ACTWGT: 15.00 LB
CAD#251633606/INET4340

BILL SENDER

TO Sample Receiving
TestAmerica Eurofins
30 COMMUNITY DR

SOUTH BURLINGTON VT 05403
(802) 660-1990

REF: 30005202

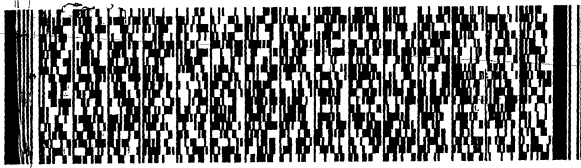
(US)

56D.020266FE4A

INV:
PO: 30005202

DEPT:

FedEx Ship Manager - Print Your Label(s)



FedEx
Ground



J211321033101uv

TRK# 7741 2492 2044

05403

9622 0019 0 (000 000 0000) 0 00 7741 2492 2044



6/29/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-59145-1

SDG Number: 200-59145-1

Login Number: 59145

List Number: 1

Creator: Lavigne, Scott M

List Source: Eurofins TestAmerica, Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1533118,119
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	

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58622-1
 SDG No.: _____
 Client Sample ID: 34002005 Lab Sample ID: 200-58622-5
 Matrix: Air Lab File ID: 46175-06.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167372 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
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

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58622-1
 SDG No.: _____
 Client Sample ID: 34002005 Lab Sample ID: 200-58622-5
 Matrix: Air Lab File ID: 46175-06.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58622-1
 SDG No.: _____
 Client Sample ID: 34002005 Lab Sample ID: 200-58622-5
 Matrix: Air Lab File ID: 46175-06.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHAH.i\20210528-46175.b\46175-06.D
 Lims ID: 200-58622-A-5
 Client ID: 34002005
 Sample Type: Client
 Inject. Date: 28-May-2021 12:15:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0046175-006
 Misc. Info.: 58622-5
 Operator ID: vtp Instrument ID: CHAH.i
 Method: \\chromfs\Burlington\ChromData\CHAH.i\20210528-46175.b\TO15_MasterMethod.CHAH.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 31-May-2021 08:54:26 Calib Date: 12-May-2021 12:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHAH.i\20210511-45930.b\45930-19.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1646

First Level Reviewer: puangmaleek

Date: 31-May-2021 08:55:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
3 Propene	41		4.052				ND	7
4 Dichlorodifluoromethane	85		4.153				ND	
5 Chlorodifluoromethane	51		4.201				ND	
6 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.537				ND	
7 Chloromethane	50		4.655				ND	
8 Vinyl chloride	62		4.986				ND	
9 Butane	43		4.991				ND	7
10 Butadiene	54		5.108				ND	
12 Bromomethane	94		5.856				ND	
13 Chloroethane	64		6.149				ND	
15 Vinyl bromide	106		6.592				ND	
16 Trichlorofluoromethane	101		6.763				ND	
18 Ethanol	45		7.179				ND	
21 1,1-Dichloroethene	96		7.873				ND	
22 112TCTFE	101		7.916				ND	
23 Acetone	43		7.958				ND	
24 Isopropyl alcohol	45		8.262				ND	
25 Carbon disulfide	76	8.278	8.289	-0.011	98	2399	0.0707	
27 3-Chloro-1-propene	41		8.593				ND	
28 Methylene Chloride	49	8.817	8.828	-0.011	97	1545	0.1103	
29 2-Methyl-2-propanol	59		9.042				ND	
31 trans-1,2-Dichloroethene	61		9.335				ND	
32 Methyl tert-butyl ether	73		9.341				ND	
33 Hexane	57		9.853				ND	
34 1,1-Dichloroethane	63		10.120				ND	
35 Vinyl acetate	43		10.130				ND	
S 36 1,2-Dichloroethene, Total	61		10.765				ND	7
37 2-Butanone (MEK)	72		11.096				ND	
38 cis-1,2-Dichloroethene	96		11.123				ND	
39 Ethyl acetate	88		11.176				ND	
* 40 Chlorobromomethane	128	11.529	11.545	-0.016	98	74331	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		11.577				ND	
42 Chloroform	83		11.715				ND	
43 1,1,1-Trichloroethane	97		12.025				ND	
44 Cyclohexane	84		12.164				ND	
45 Carbon tetrachloride	117		12.308				ND	
46 Benzene	78		12.660				ND	
47 1,2-Dichloroethane	62		12.735				ND	
48 Isooctane	57		12.874				ND	
50 n-Heptane	43		13.183				ND	
* 51 1,4-Difluorobenzene	114	13.391	13.397	-0.006	96	368844	100.0	
53 Trichloroethene	95		13.829				ND	
55 1,2-Dichloropropane	63		14.293				ND	
56 Methyl methacrylate	69		14.373				ND	
57 1,4-Dioxane	88		14.411				ND	
58 Dibromomethane	174		14.448				ND	
59 Dichlorobromomethane	83		14.757				ND	
61 cis-1,3-Dichloropropene	75		15.563				ND	
62 4-Methyl-2-pentanone (MIBK)	43		15.814				ND	
63 Toluene	92		16.204				ND	
65 trans-1,3-Dichloropropene	75		16.615				ND	
66 1,1,2-Trichloroethane	83		16.994				ND	
67 Tetrachloroethene	166		17.191				ND	
68 2-Hexanone	43		17.394				ND	
69 Chlorodibromomethane	129		17.730				ND	
70 Ethylene Dibromide	107		17.976				ND	
* 71 Chlorobenzene-d5	117	18.883	18.883	0.000	89	295396	100.0	
72 Chlorobenzene	112		18.942				ND	
73 Ethylbenzene	91		19.134				ND	
74 m-Xylene & p-Xylene	106		19.395				ND	
76 o-Xylene	106		20.164				ND	
77 Styrene	104		20.196				ND	
78 Bromoform	173		20.543				ND	
S 79 Xylenes, Total	106		20.700				ND	7
80 Isopropylbenzene	105		20.847				ND	
81 1,1,2,2-Tetrachloroethane	83		21.354				ND	
83 N-Propylbenzene	91		21.551				ND	
84 2-Chlorotoluene	91		21.701				ND	
85 4-Ethyltoluene	105		21.749				ND	
86 1,3,5-Trimethylbenzene	105		21.840				ND	
89 tert-Butylbenzene	119		22.315				ND	
90 1,2,4-Trimethylbenzene	105		22.400				ND	
91 sec-Butylbenzene	105		22.640				ND	
92 1,3-Dichlorobenzene	146		22.811				ND	
93 4-Isopropyltoluene	119		22.848				ND	
94 1,4-Dichlorobenzene	146		22.950				ND	
95 Benzyl chloride	91		23.094				ND	
96 n-Butylbenzene	91		23.403				ND	
97 1,2-Dichlorobenzene	146		23.435				ND	
100 1,2,4-Trichlorobenzene	180		25.874				ND	
101 Hexachlorobutadiene	225		26.120				ND	
102 Naphthalene	128		26.355				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15AHISs_00001

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHAH.i\20210528-46175.b\46175-06.D

Injection Date: 28-May-2021 12:15:30

Instrument ID: CHAH.i

Operator ID: vtp

Lims ID: 200-58622-A-5

Lab Sample ID: 200-58622-5

Worklist Smp#: 6

Client ID: 34002005

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

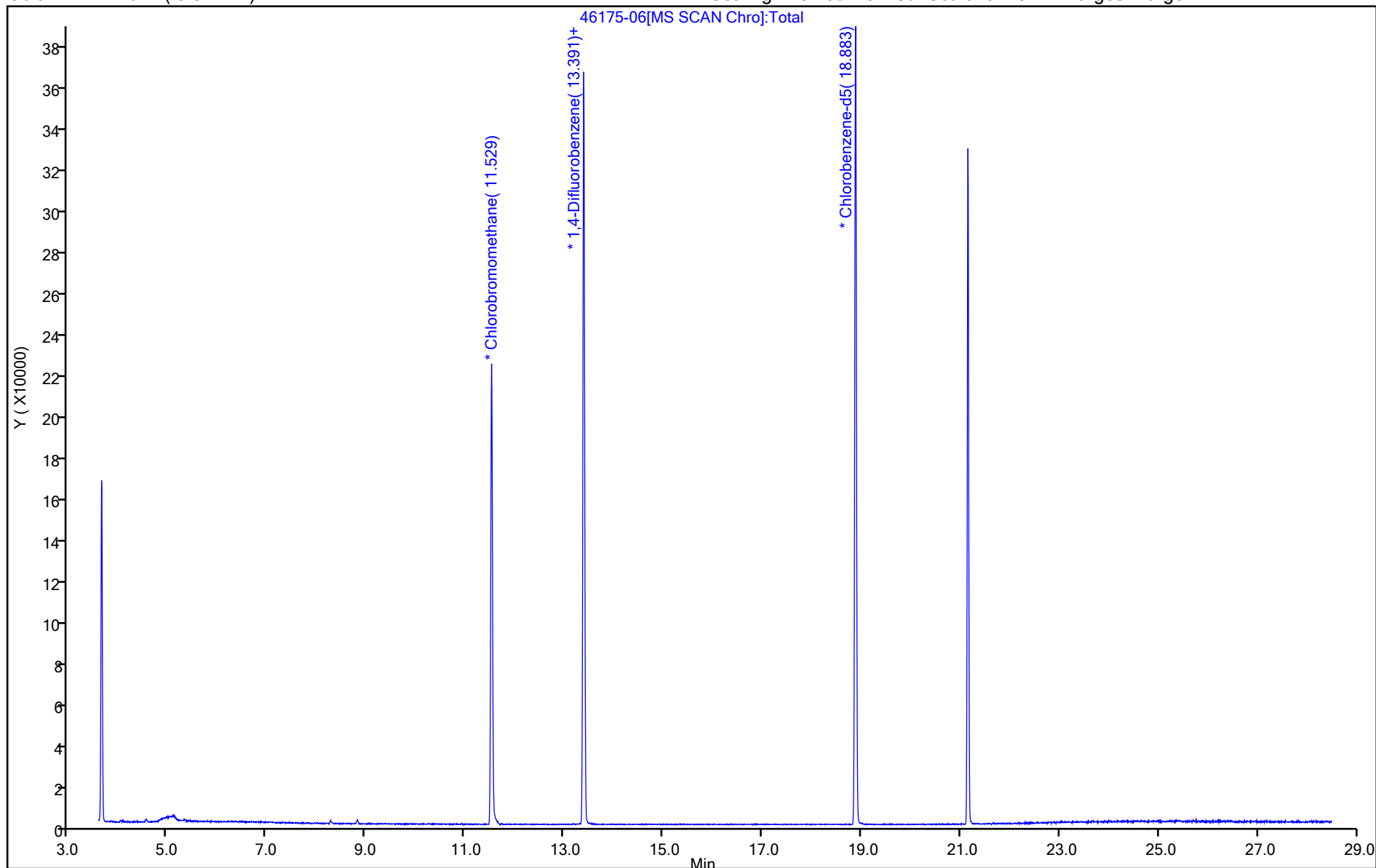
ALS Bottle#: 5

Method: TO15_MasterMethod.CHAH.i

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 TestAmerica, Burlington Job No.: 200-58623-1
 SDG No.: _____
 Client Sample ID: 34001946 Lab Sample ID: 200-58623-5
 Matrix: Air Lab File ID: 200-46150-006.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/27/2021 11:10
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167316 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58623-1
 SDG No.: _____
 Client Sample ID: 34001946 Lab Sample ID: 200-58623-5
 Matrix: Air Lab File ID: 200-46150-006.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/27/2021 11:10
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167316 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58623-1
 SDG No.: _____
 Client Sample ID: 34001946 Lab Sample ID: 200-58623-5
 Matrix: Air Lab File ID: 200-46150-006.D
 Analysis Method: TO-15 Date Collected: 05/25/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/27/2021 11:10
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167316 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Lims ID: 200-58623-A-5
 Client ID: 34001946
 Sample Type: Client
 Inject. Date: 27-May-2021 11:10:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0046150-006
 Misc. Info.: 58620-12
 Operator ID: ggg Instrument ID: CHG.i
 Method: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\TO15_MasterMethod_(v1)_G.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-May-2021 07:29:53 Calib Date: 30-Apr-2021 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20210429-45776.b\200-45776-013.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: bourdeaut

Date: 28-May-2021 07:29:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.038				ND	
2 Dichlorodifluoromethane	85		3.091				ND	
3 Chlorodifluoromethane	51		3.107				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.295				ND	
5 Chloromethane	50		3.364				ND	
7 Vinyl chloride	62		3.551				ND	U
6 Butane	43		3.562				ND	7
8 Butadiene	54		3.626				ND	7
10 Bromomethane	94		4.081				ND	
11 Chloroethane	64		4.263				ND	
13 Vinyl bromide	106		4.573				ND	
14 Trichlorofluoromethane	101		4.707				ND	
17 Ethanol	45		4.915				ND	7
21 1,1-Dichloroethene	96		5.552				ND	U
22 Acetone	43		5.568				ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	101		5.595				ND	
24 Isopropyl alcohol	45		5.804				ND	
23 Carbon disulfide	76		5.927				ND	
25 3-Chloro-1-propene	41		6.146				ND	
27 Methylene Chloride	49		6.338				ND	7
28 2-Methyl-2-propanol	59		6.510				ND	
31 trans-1,2-Dichloroethene	61		6.836				ND	
29 Methyl tert-butyl ether	73	6.959	6.857	0.102	1	168	0.0114	
33 Hexane	57		7.371				ND	
34 1,1-Dichloroethane	63		7.548				ND	
35 Vinyl acetate	43		7.564				ND	
38 2-Butanone (MEK)	72		8.468				ND	
37 cis-1,2-Dichloroethene	96		8.505				ND	U
39 Ethyl acetate	88		8.585				ND	
* 40 Chlorobromomethane	128	8.906	8.912	-0.006	84	93795	10.0	
41 Tetrahydrofuran	42		8.997				ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.094				ND	
44 1,1,1-Trichloroethane	97		9.436				ND	
43 Cyclohexane	84		9.618				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	7
45 Carbon tetrachloride	117		9.746				ND	
47 Benzene	78		10.078				ND	U
48 1,2-Dichloroethane	62		10.121				ND	
46 Isooctane	57		10.388				ND	
49 n-Heptane	43		10.731				ND	7
* 50 1,4-Difluorobenzene	114	10.881	10.875	0.006	94	491455	10.0	
53 Trichloroethene	95		11.367				ND	
54 1,2-Dichloropropane	63		11.843				ND	
55 Methyl methacrylate	69		11.988				ND	
57 Dibromomethane	174		12.004				ND	
56 1,4-Dioxane	88		12.015				ND	
58 Dichlorobromomethane	83		12.362				ND	
60 cis-1,3-Dichloropropene	75		13.261				ND	7
61 4-Methyl-2-pentanone (MIBK)	43		13.555				ND	
65 Toluene	92	13.989	13.983	0.006	34	617	0.0344	
66 trans-1,3-Dichloropropene	75		14.406				ND	7
67 1,1,2-Trichloroethane	83		14.796				ND	
68 Tetrachloroethene	166		15.069				ND	
69 2-Hexanone	43		15.267				ND	7
71 Chlorodibromomethane	129		15.593				ND	
72 Ethylene Dibromide	107		15.840				ND	
* 74 Chlorobenzene-d5	117	16.835	16.835	0.000	88	419316	10.0	
75 Chlorobenzene	112		16.899				ND	7
76 Ethylbenzene	91	17.134	17.129	0.005	7	1887	0.0456	
78 m-Xylene & p-Xylene	106		17.412				ND	
79 o-Xylene	106	18.215	18.220	-0.005	1	508	0.0331	
80 Styrene	104		18.247				ND	
81 Bromoform	173		18.584				ND	
82 Isopropylbenzene	105		19.012				ND	
84 1,1,2,2-Tetrachloroethane	83		19.547				ND	7
S 73 Xylenes, Total	106				0		0.0331	
85 N-Propylbenzene	91		19.820				ND	
89 2-Chlorotoluene	91		19.959				ND	
88 4-Ethyltoluene	105		20.044				ND	7
90 1,3,5-Trimethylbenzene	105		20.151				ND	7
92 tert-Butylbenzene	119		20.670				ND	7
93 1,2,4-Trimethylbenzene	105		20.761				ND	7
94 sec-Butylbenzene	105		21.023				ND	7
96 1,3-Dichlorobenzene	146		21.179				ND	U
95 4-Isopropyltoluene	119		21.259				ND	7
97 1,4-Dichlorobenzene	146		21.328				ND	U
98 Benzyl chloride	91		21.478				ND	7
101 1,2-Dichlorobenzene	146		21.826				ND	7
100 n-Butylbenzene	91		21.837				ND	7
103 1,2,4-Trichlorobenzene	180		24.223				ND	U
104 Hexachlorobutadiene	225		24.490				ND	7
105 Naphthalene	128		24.661				ND	U

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15GIS_00017

Amount Added: 20.00

Units: mL

Run Reagent



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D

Injection Date: 27-May-2021 11:10:30

Instrument ID: CHG.i

Operator ID: ggg

Lims ID: 200-58623-A-5

Lab Sample ID: 200-58623-5

Worklist Smp#: 6

Client ID: 34001946

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

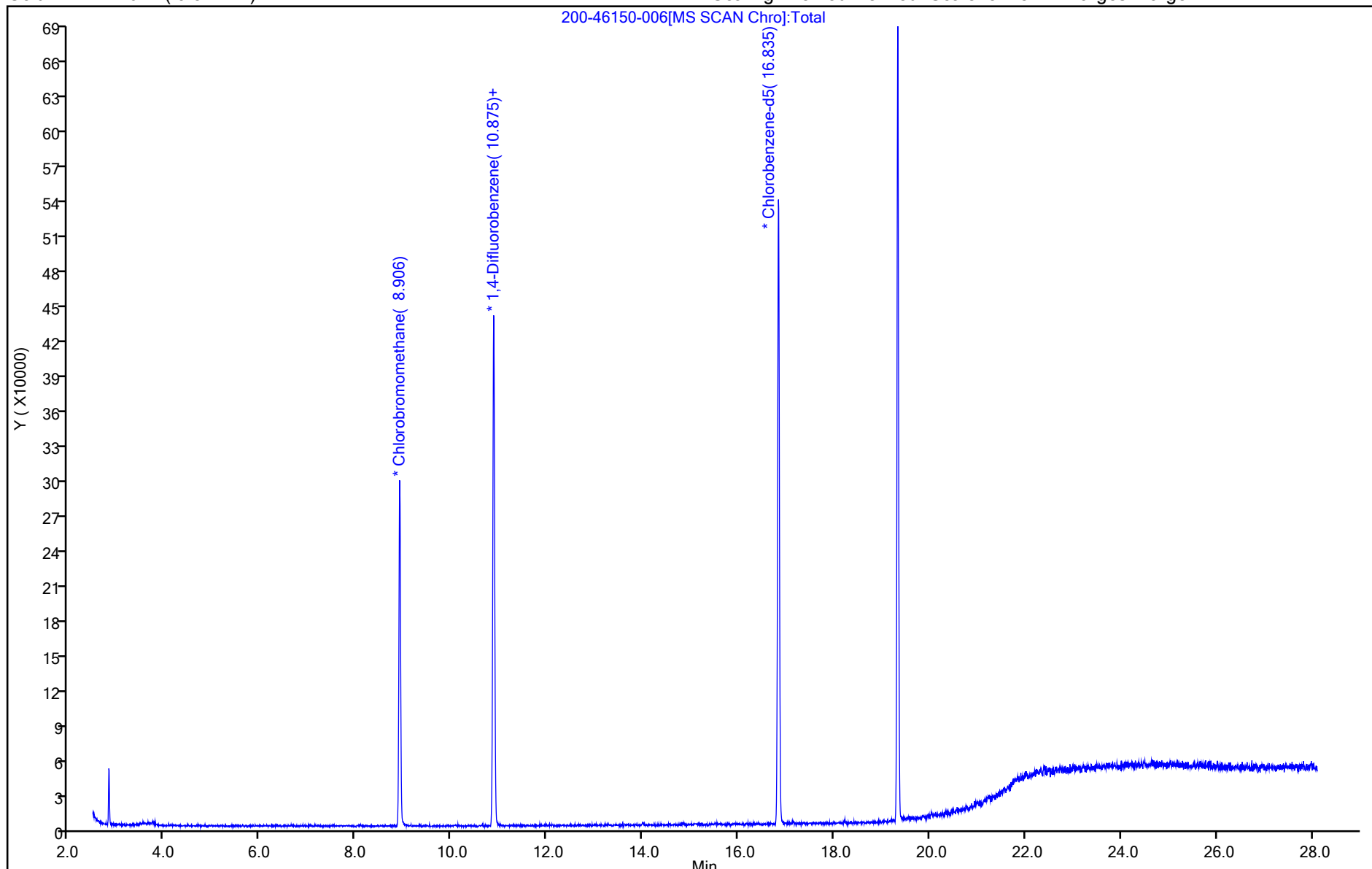
ALS Bottle#: 5

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

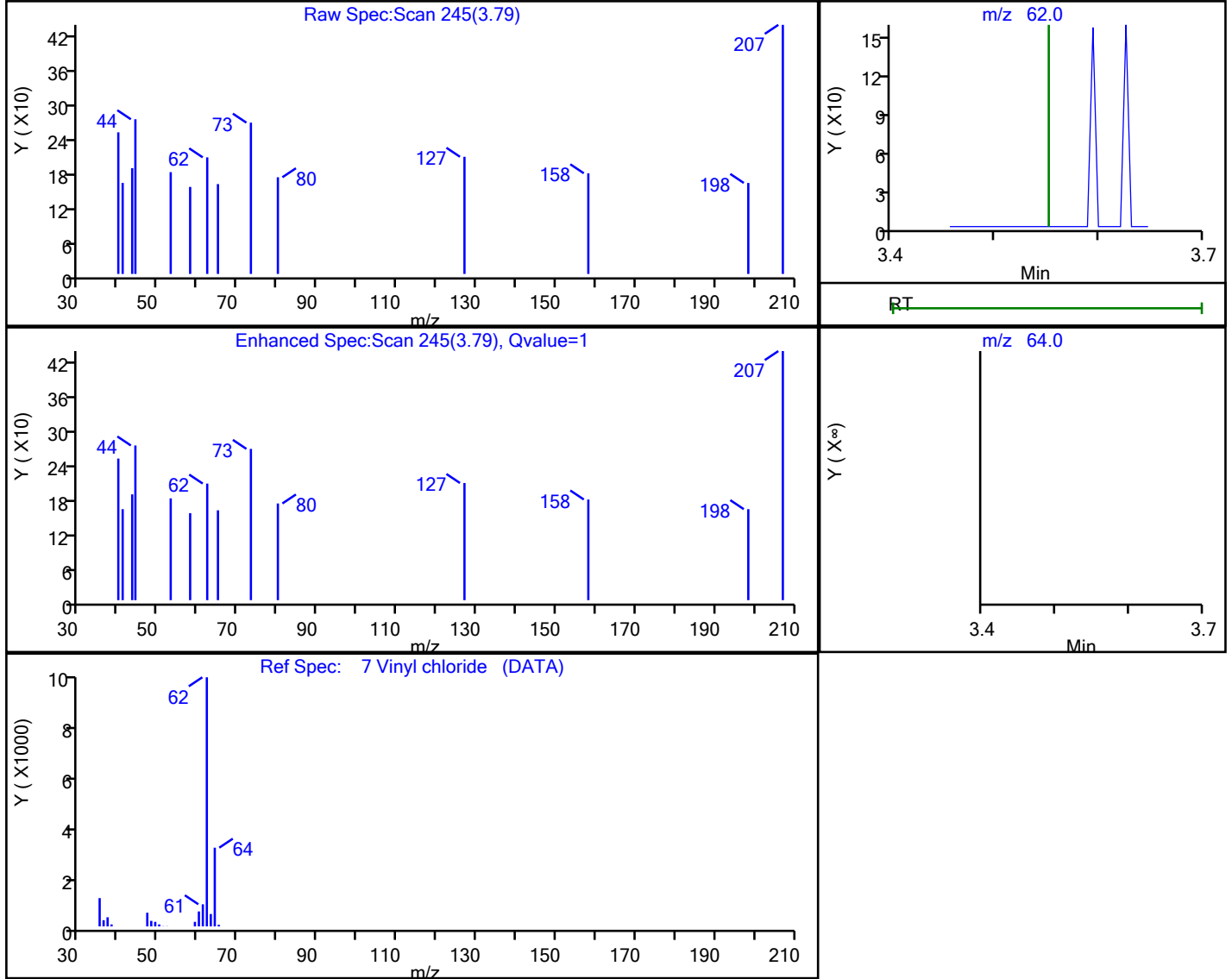


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
3.79	62.00	122	0.019170
3.55	64.00	0	

Reviewer: bourdeaut, 28-May-2021 07:29:26
 Audit Action: Marked Compound Undetected

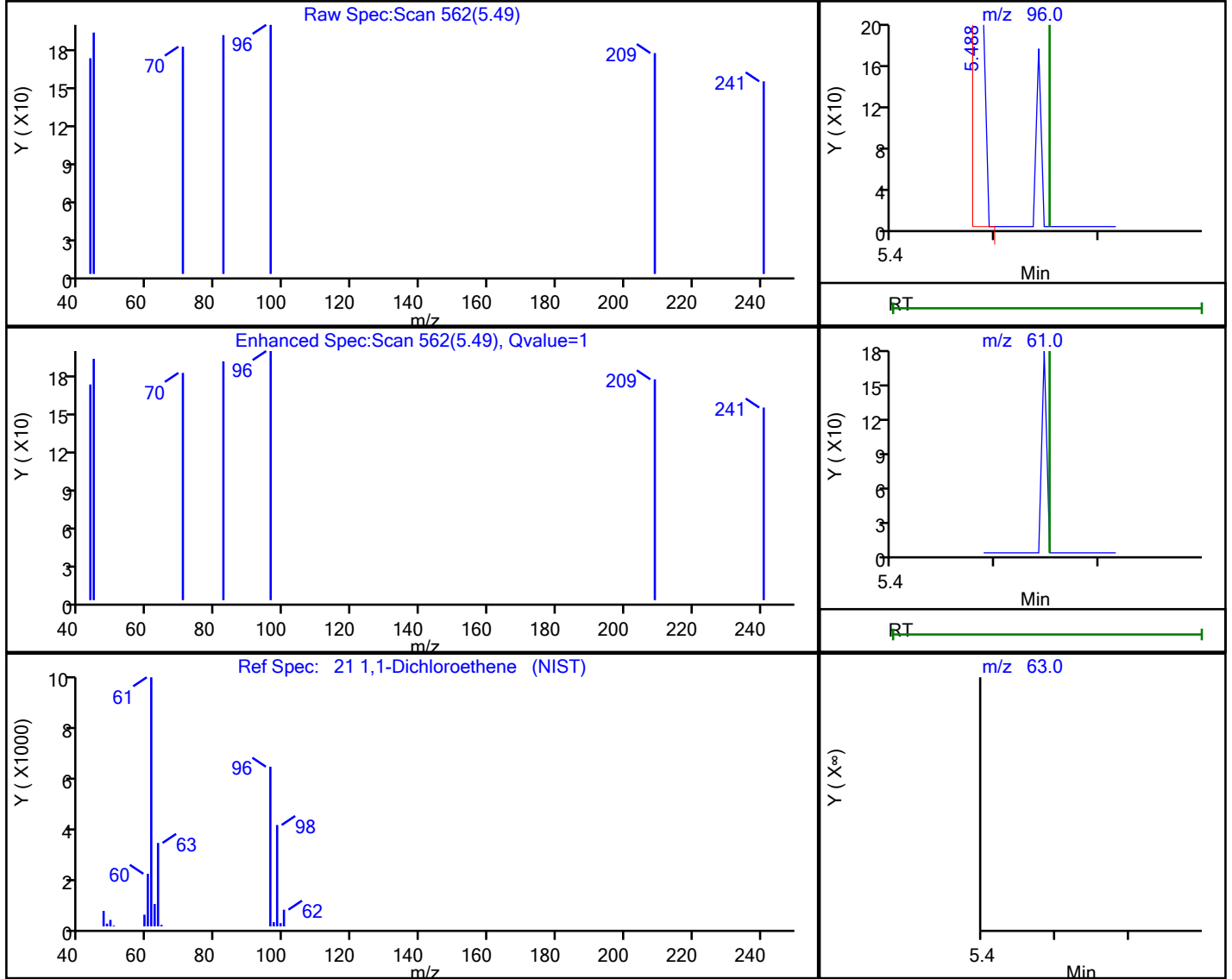
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
5.49	96.00	119	0.016440
5.55	61.00	0	
5.55	63.00	0	

Reviewer: bourdeaut, 28-May-2021 07:29:26

Audit Action: Marked Compound Undetected

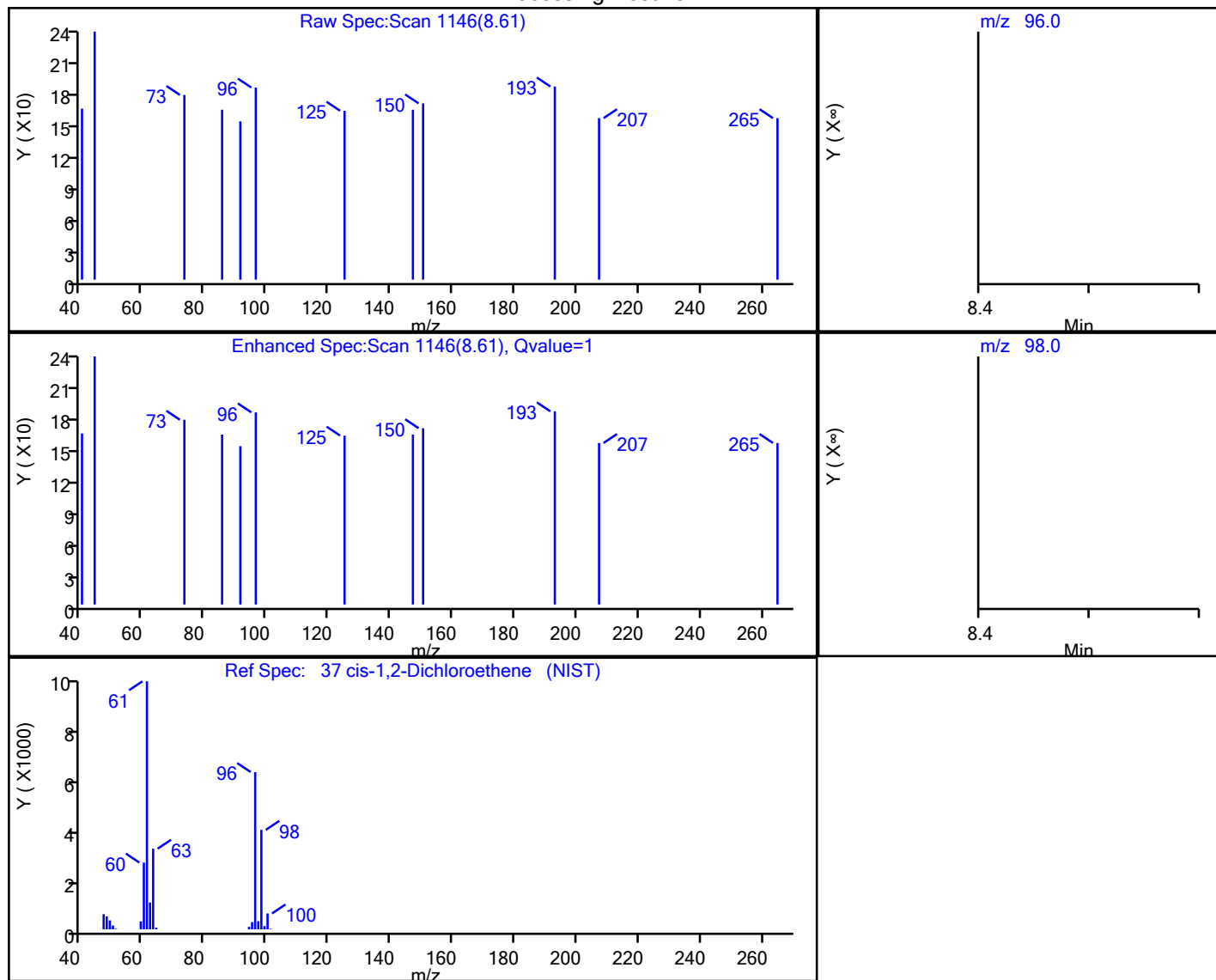
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
8.61	96.00	113	0.016222
8.51	98.00	0	

Reviewer: bourdeaut, 28-May-2021 07:29:26
 Audit Action: Marked Compound Undetected

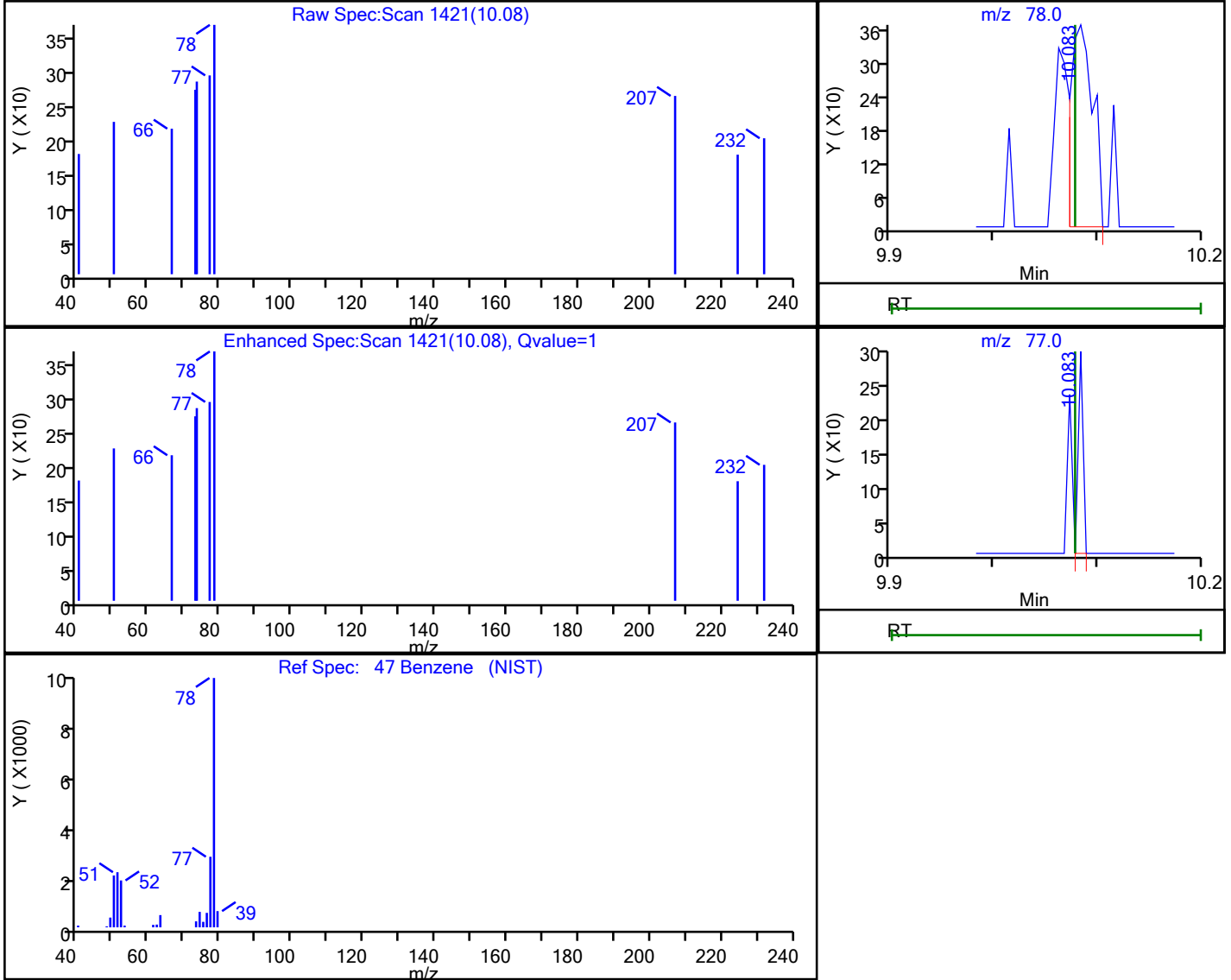
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.08	78.00	544	0.022507
10.08	77.00	93	

Reviewer: bourdeaut, 28-May-2021 07:29:26
 Audit Action: Marked Compound Undetected

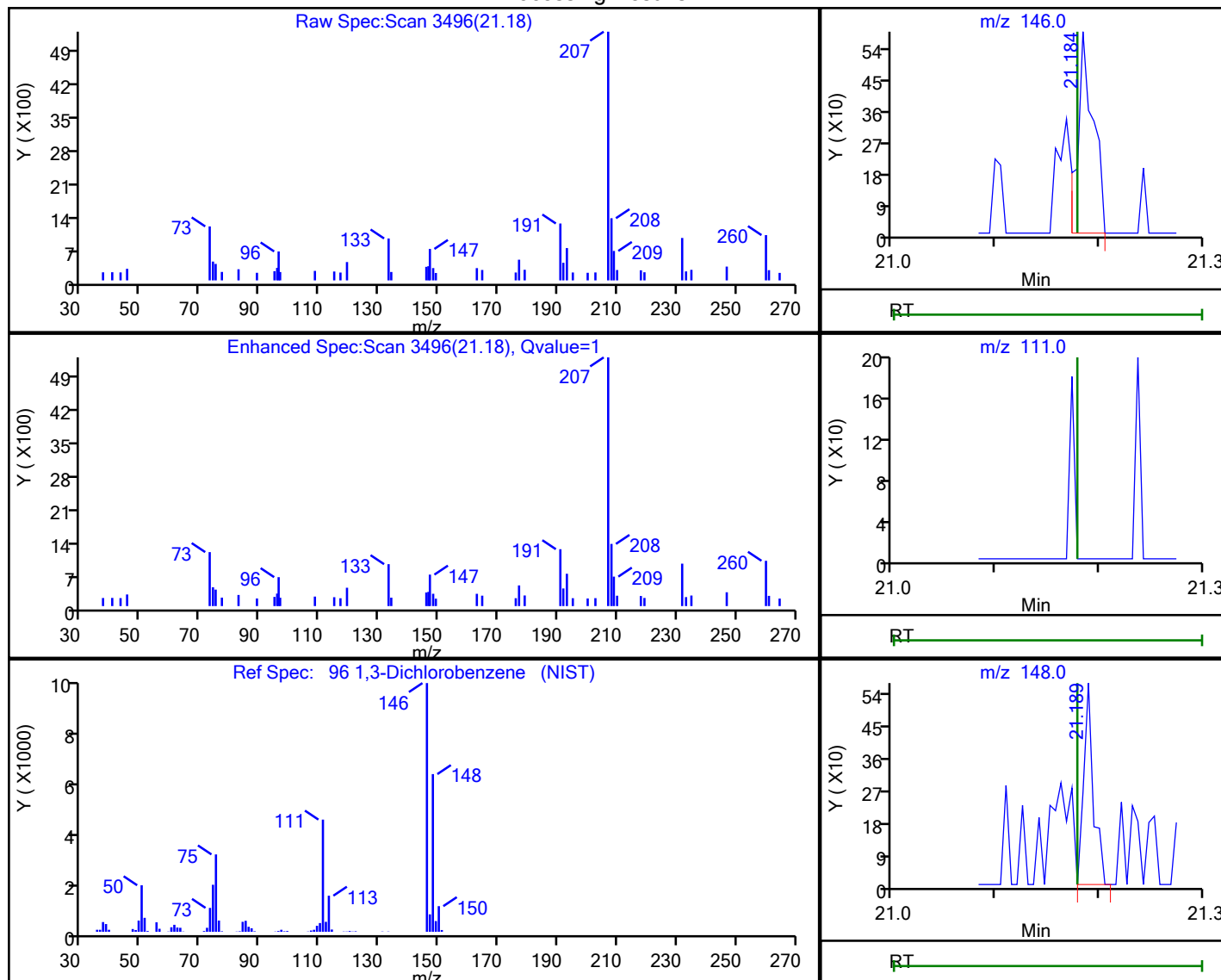
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
21.18	146.00	604	0.022014
21.18	111.00	0	
21.19	148.00	367	

Reviewer: bourdeaut, 28-May-2021 07:29:26

Audit Action: Marked Compound Undetected

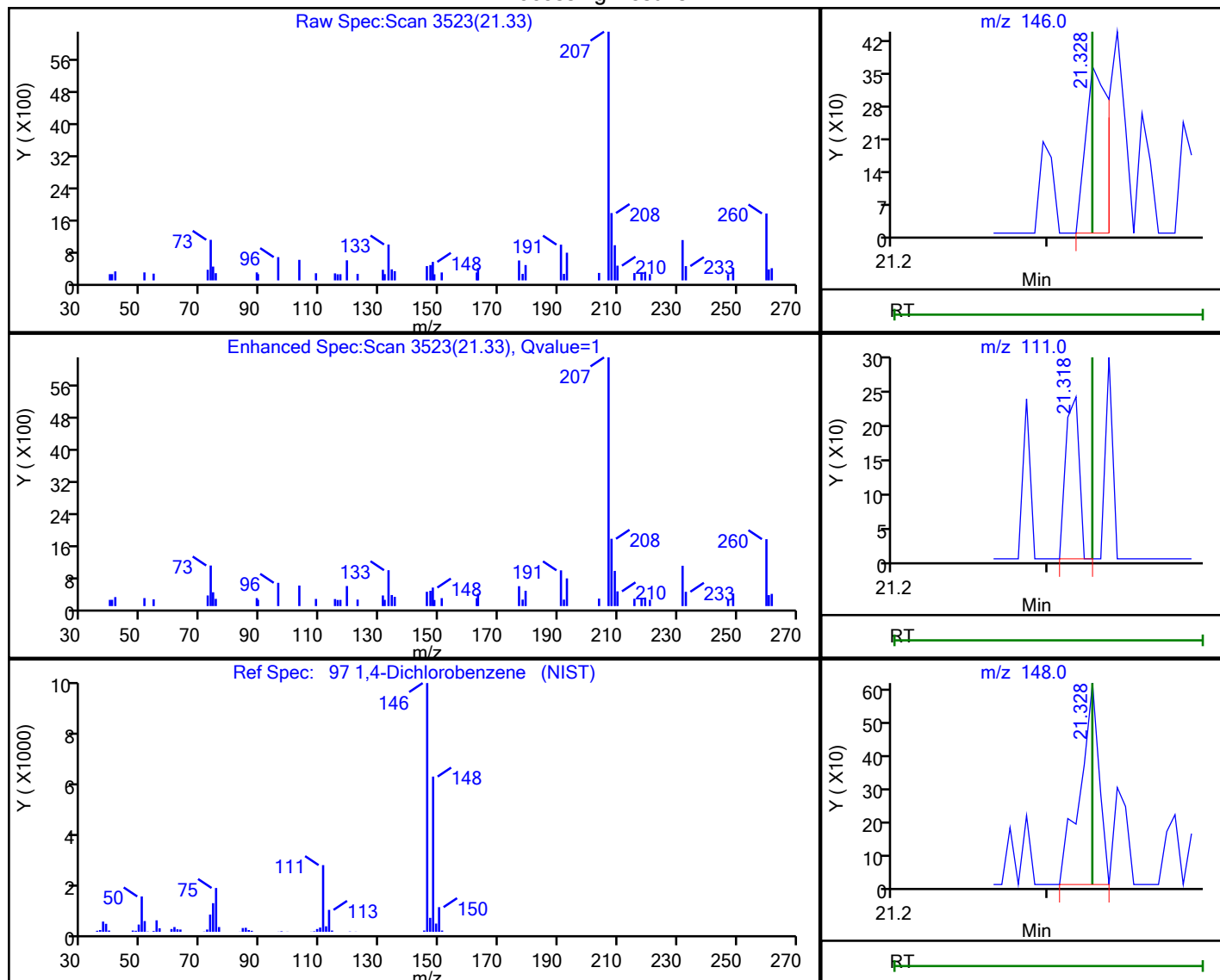
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
21.33	146.00	367	0.013578
21.32	111.00	143	
21.33	148.00	529	

Reviewer: bourdeaut, 28-May-2021 07:29:26

Audit Action: Marked Compound Undetected

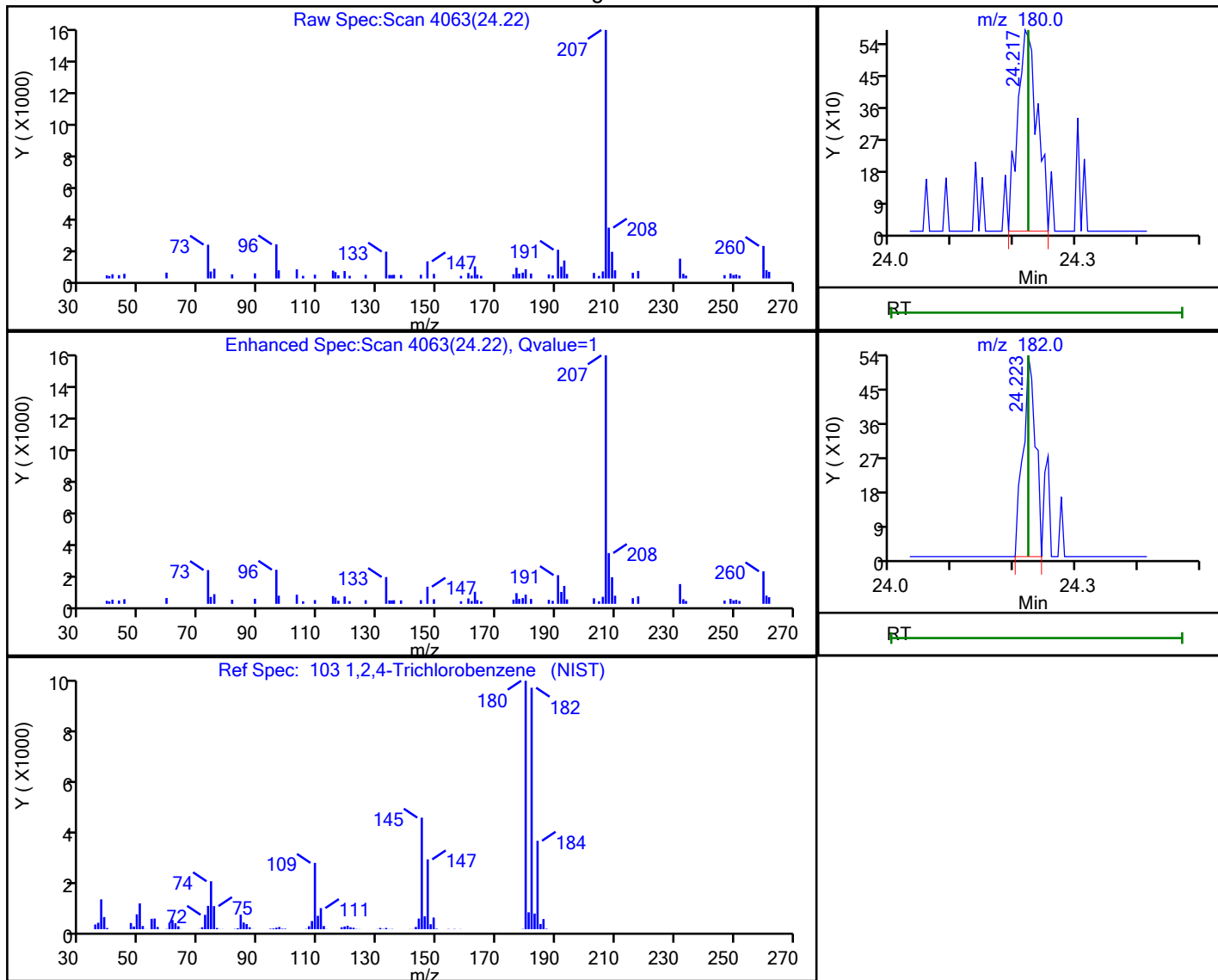
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
24.22	180.00	1269	0.054036
24.22	182.00	745	

Reviewer: bourdeaut, 28-May-2021 07:29:26

Audit Action: Marked Compound Undetected

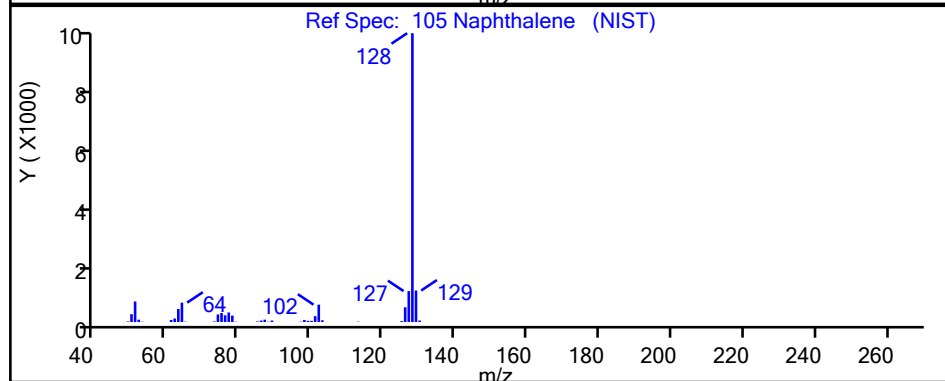
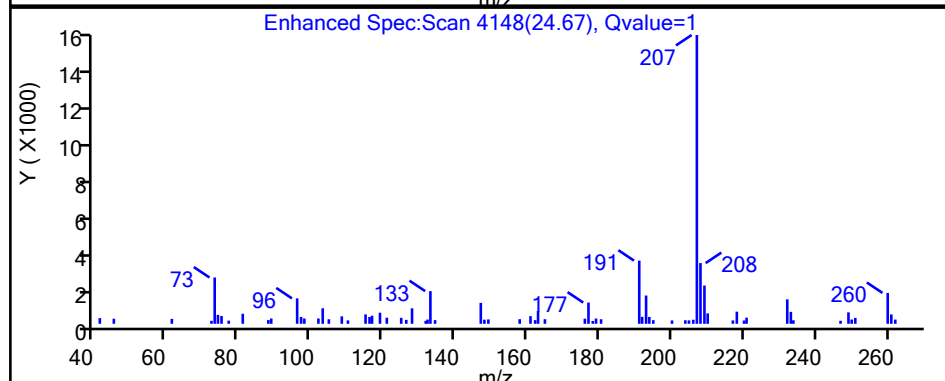
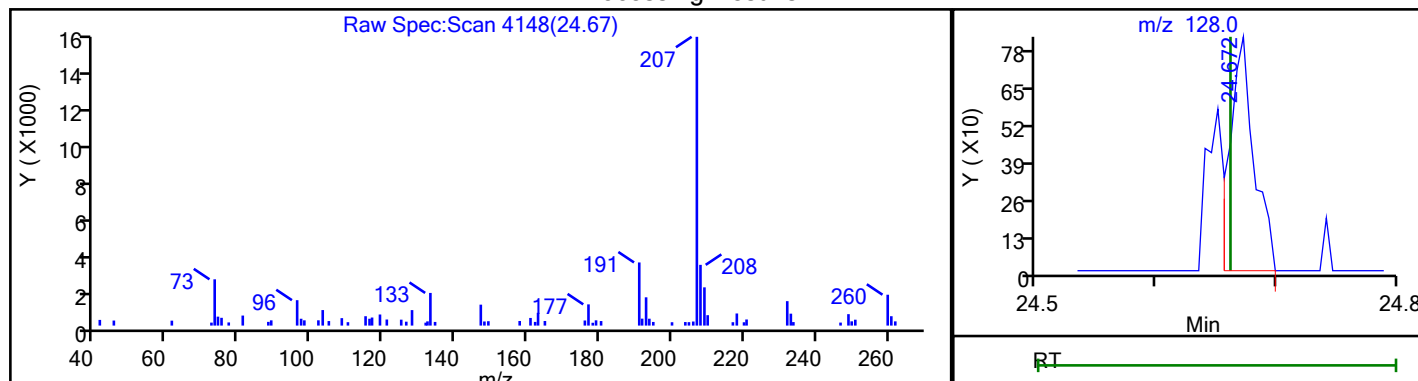
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20210527-46150.b\200-46150-006.D
 Injection Date: 27-May-2021 11:10:30 Instrument ID: CHG.i
 Lims ID: 200-58623-A-5 Lab Sample ID: 200-58623-5
 Client ID: 34001946
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
24.67	128.00	1145	0.022748

Reviewer: bourdeaut, 28-May-2021 07:29:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58654-1
 SDG No.: _____
 Client Sample ID: 8287 Lab Sample ID: 200-58654-6
 Matrix: Air Lab File ID: 46176-06.D
 Analysis Method: TO-15 Date Collected: 05/26/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167373 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
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

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58654-1
 SDG No.: _____
 Client Sample ID: 8287 Lab Sample ID: 200-58654-6
 Matrix: Air Lab File ID: 46176-06.D
 Analysis Method: TO-15 Date Collected: 05/26/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167373 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58654-1
 SDG No.: _____
 Client Sample ID: 8287 Lab Sample ID: 200-58654-6
 Matrix: Air Lab File ID: 46176-06.D
 Analysis Method: TO-15 Date Collected: 05/26/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 05/28/2021 12:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 167373 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210528-46176.b\46176-06.D
 Lims ID: 200-58654-A-6
 Client ID: 8287
 Sample Type: Client
 Inject. Date: 28-May-2021 12:30:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0046176-006
 Misc. Info.: 58653-6
 Operator ID: ggg Instrument ID: CHX.i
 Method: \\chromfs\Burlington\ChromData\CHX.i\20210528-46176.b\TO15_MasterMethod_X.m.m
 Limit Group: AI_TO15_ICAL
 Last Update: 31-May-2021 07:36:15 Calib Date: 13-May-2021 02:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20210512-45948.b\45948-13.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1615

First Level Reviewer: bunmaa

Date: 31-May-2021 07:37:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.343				ND	
3 Dichlorodifluoromethane	85		4.439				ND	
4 Chlorodifluoromethane	51		4.482				ND	
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.793				ND	
6 Chloromethane	50		4.921				ND	
7 Vinyl chloride	62		5.231				ND	
8 Butane	43		5.237				ND	
9 Butadiene	54		5.349				ND	
10 Bromomethane	94		6.060				ND	
12 Chloroethane	64		6.328				ND	
14 Vinyl bromide	106		6.745				ND	
15 Trichlorofluoromethane	101		6.906				ND	
17 Ethanol	45		7.232				ND	7
20 1,1-Dichloroethene	96		7.960				ND	
21 112TCTFE	101		7.992				ND	
22 Acetone	43		8.013				ND	
23 Isopropyl alcohol	45		8.281				ND	
24 Carbon disulfide	76		8.382				ND	
27 3-Chloro-1-propene	41		8.655				ND	
28 Methylene Chloride	49		8.885				ND	
29 2-Methyl-2-propanol	59		9.046				ND	
31 Methyl tert-butyl ether	73		9.361				ND	
32 trans-1,2-Dichloroethene	61		9.388				ND	
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.885				ND	
35 Vinyl acetate	43		10.142				ND	
36 1,1-Dichloroethane	63		10.153				ND	
37 2-Butanone (MEK)	72		11.094				ND	
38 cis-1,2-Dichloroethene	96		11.143				ND	
39 Ethyl acetate	88		11.175				ND	
* 40 Chlorobromomethane	128	11.560	11.560	0.000	79	55188	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		11.581				ND	
42 Chloroform	83		11.731				ND	
43 1,1,1-Trichloroethane	97		12.036				ND	
44 Cyclohexane	84		12.175				ND	
45 Carbon tetrachloride	117		12.314				ND	
46 Benzene	78		12.662				ND	
47 1,2-Dichloroethane	62		12.742				ND	
48 Isooctane	57		12.865				ND	
49 n-Heptane	43		13.170				ND	
* 50 1,4-Difluorobenzene	114	13.395	13.395	0.000	93	277654	10.0	
52 Trichloroethene	95		13.828				ND	
55 1,2-Dichloropropane	63		14.288				ND	
56 Methyl methacrylate	69		14.352				ND	
57 1,4-Dioxane	88		14.395				ND	
58 Dibromomethane	174		14.449				ND	
59 Dichlorobromomethane	83		14.754				ND	
60 cis-1,3-Dichloropropene	75		15.551				ND	
62 4-Methyl-2-pentanone (MIBK)	43		15.792				ND	
63 Toluene	92		16.187				ND	
67 trans-1,3-Dichloropropene	75		16.605				ND	
68 1,1,2-Trichloroethane	83		16.990				ND	
69 Tetrachloroethene	166		17.177				ND	
70 2-Hexanone	43		17.364				ND	
71 Chlorodibromomethane	129		17.728				ND	
72 Ethylene Dibromide	107		17.974				ND	
* 73 Chlorobenzene-d5	117	18.873	18.873	0.000	84	205517	10.0	
74 Chlorobenzene	112		18.932				ND	
75 Ethylbenzene	91		19.114				ND	
76 m-Xylene & p-Xylene	106		19.381				ND	
S 78 Xylenes, Total	106		19.600				ND	7
79 o-Xylene	106		20.152				ND	
80 Styrene	104		20.189				ND	
81 Bromoform	173		20.547				ND	
82 Isopropylbenzene	105		20.836				ND	
83 1,1,2,2-Tetrachloroethane	83		21.350				ND	
85 N-Propylbenzene	91		21.542				ND	
86 2-Chlorotoluene	91		21.692				ND	
87 4-Ethyltoluene	105		21.740				ND	
88 1,3,5-Trimethylbenzene	105		21.831				ND	
91 tert-Butylbenzene	119		22.307				ND	
92 1,2,4-Trimethylbenzene	105		22.398				ND	
93 sec-Butylbenzene	105		22.634				ND	
94 1,3-Dichlorobenzene	146		22.810				ND	
95 4-Isopropyltoluene	119		22.842				ND	
96 1,4-Dichlorobenzene	146		22.955				ND	
97 Benzyl chloride	91		23.094				ND	
98 n-Butylbenzene	91		23.399				ND	
99 1,2-Dichlorobenzene	146		23.442				ND	
102 1,2,4-Trichlorobenzene	180		25.897				ND	
103 Hexachlorobutadiene	225		26.127				ND	
104 Naphthalene	128		26.379				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15XISs_00002

Amount Added: 20.00

Units: mL

Run Reagent



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210528-46176.b\46176-06.D

Injection Date: 28-May-2021 12:30:30

Instrument ID: CHX.i

Operator ID: ggg

Lims ID: 200-58654-A-6

Lab Sample ID: 200-58654-6

Worklist Smp#: 6

Client ID: 8287

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

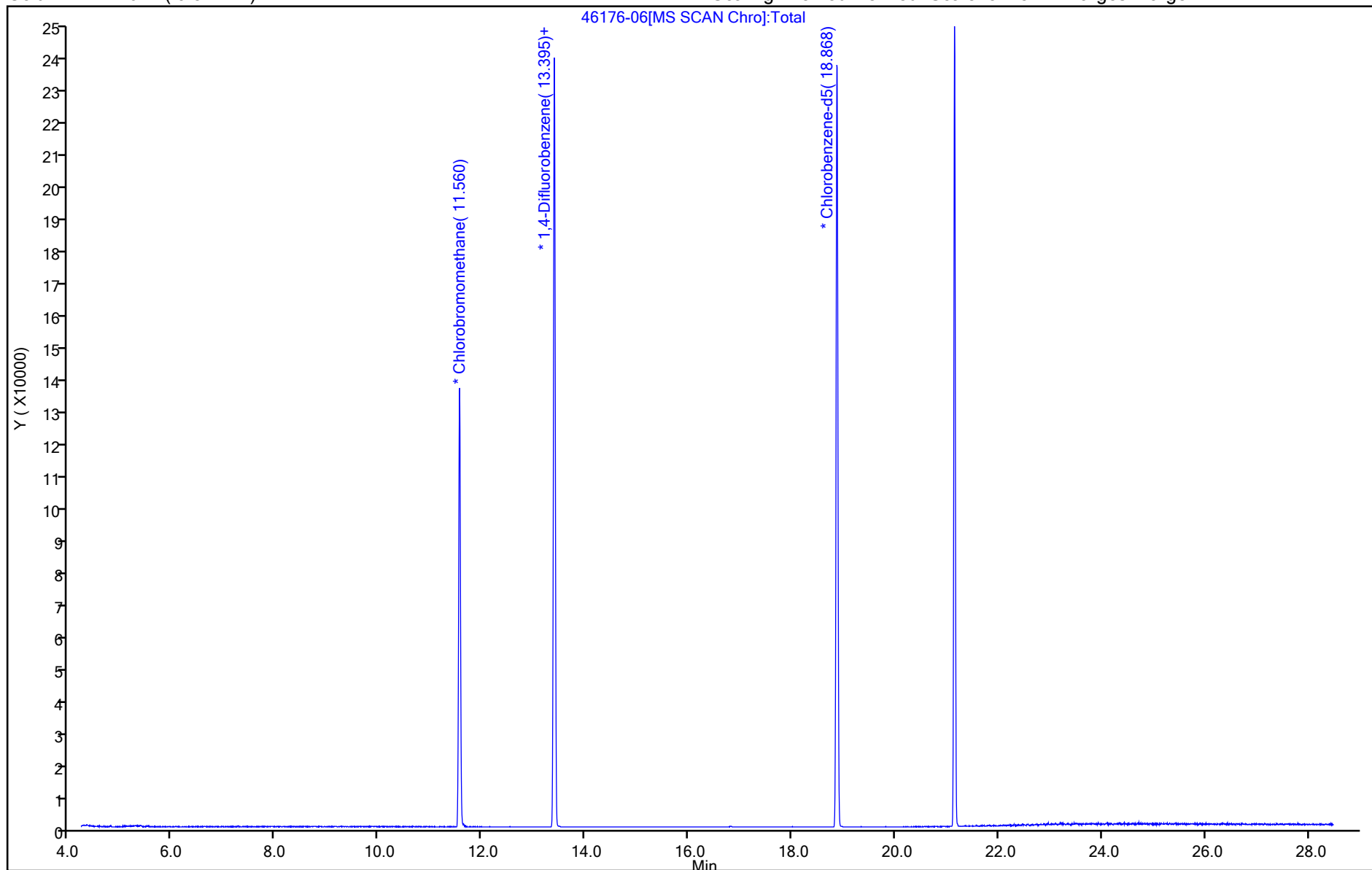
ALS Bottle#: 5

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



Summa Canister Dilution Worksheet

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

Job No.: 200-59145-1
SDG No.: 200-59145-1

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 Initials
200-59145-1	1	-7.4	0.75	0.75	44.4	4.02	4.02		5.34	5.34	g23	07/06/21 15:16	WRD
200-59145-1	1	0	1.00	1.00	19.8	2.35	2.35		2.35	12.54	g23	07/06/21 15:16	WRD
200-59145-2	1	-4.2	0.86	0.86	37.1	3.52	3.52		4.10	4.10	g23	07/06/21 15:21	WRD
200-59145-2	1	0	1.00	1.00	19.8	2.35	2.35		2.35	9.62	g23	07/06/21 15:21	WRD
200-59145-3	1	-7.8	0.74	0.74	41.1	3.80	3.80		5.13	5.13	g23	07/06/21 15:30	WRD
200-59145-3	1	0	1.00	1.00	17.6	2.20	2.20		2.20	11.28	g23	07/06/21 15:30	WRD
200-59145-5	1	-6.4	0.79	0.79	43.8	3.98	3.98		5.06	5.06	g23	07/06/21 15:35	WRD
200-59145-5	1	0	1.00	1.00	36.4	3.48	3.48		3.48	17.60	g23	07/06/21 15:36	WRD

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)



ANALYTICAL REPORT

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

Laboratory Job ID: 200-61618-1
Laboratory Sample Delivery Group: 200-61618-1
Client Project/Site: Crosman Vapor

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

Attn: Christopher Davern

Elizabeth A. Nye

Authorized for release by:
1/10/2022 10:13:00 AM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

Job ID: 200-61618-1
SDG: 200-61618-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
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.
α	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

Case Narrative

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

Job ID: 200-61618-1
SDG: 200-61618-1

Job ID: 200-61618-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Crosman Vapor

Report Number: 200-61618-1

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 12/31/2021; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SDS-1-122921, SDS-2-122921, CMB-INF-122921, POST-BLOWER-EFF-122921, PREVPGAC4-122921 and POSTDILLUTION-EFF-122921 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 01/06/2022.

Samples SDS-1-122921[16X], SDS-1-122921[83.4X], SDS-2-122921[12X], SDS-2-122921[58.8X], CMB-INF-122921[12X], CMB-INF-122921[60X], POST-BLOWER-EFF-122921[10X], PREVPGAC4-122921[10X], PREVPGAC4-122921[47.8X] and POSTDILLUTION-EFF-122921[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: 200-61618-1
SDG: 200-61618-1

Client Sample ID: SDS-1-122921

Lab Sample ID: 200-61618-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.93		0.80	0.53	ppb v/v	16		TO-15	Total/NA
Trichloroethene	2600		2.9	2.0	ppb v/v	83.4		TO-15	Total/NA
Tetrachloroethene	6.5		3.2	0.43	ppb v/v	16		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7		3.2	2.1	ug/m3	16		TO-15	Total/NA
Trichloroethene	14000		16	11	ug/m3	83.4		TO-15	Total/NA
Tetrachloroethene	44		22	2.9	ug/m3	16		TO-15	Total/NA

Client Sample ID: SDS-2-122921

Lab Sample ID: 200-61618-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	93		60	24	ppb v/v	12		TO-15	Total/NA
cis-1,2-Dichloroethene	34		0.60	0.40	ppb v/v	12		TO-15	Total/NA
1,2-Dichloroethene, Total	34		4.8	2.2	ppb v/v	12		TO-15	Total/NA
Trichloroethene	1800		2.1	1.4	ppb v/v	58.8		TO-15	Total/NA
Tetrachloroethene	2.2	J	2.4	0.32	ppb v/v	12		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		140	57	ug/m3	12		TO-15	Total/NA
cis-1,2-Dichloroethene	140		2.4	1.6	ug/m3	12		TO-15	Total/NA
1,2-Dichloroethene, Total	130		19	8.6	ug/m3	12		TO-15	Total/NA
Trichloroethene	9500		11	7.6	ug/m3	58.8		TO-15	Total/NA
Tetrachloroethene	15	J	16	2.2	ug/m3	12		TO-15	Total/NA

Client Sample ID: CMB-INF-122921

Lab Sample ID: 200-61618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		0.60	0.40	ppb v/v	12		TO-15	Total/NA
1,2-Dichloroethene, Total	27		4.8	2.2	ppb v/v	12		TO-15	Total/NA
Trichloroethene	2300		2.1	1.4	ppb v/v	60		TO-15	Total/NA
Tetrachloroethene	3.2		2.4	0.32	ppb v/v	12		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		2.4	1.6	ug/m3	12		TO-15	Total/NA
1,2-Dichloroethene, Total	110		19	8.6	ug/m3	12		TO-15	Total/NA
Trichloroethene	12000		11	7.7	ug/m3	60		TO-15	Total/NA
Tetrachloroethene	22		16	2.2	ug/m3	12		TO-15	Total/NA

Client Sample ID: POST-BLOWER-EFF-122921

Lab Sample ID: 200-61618-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	27		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	110		16	7.1	ug/m3	10		TO-15	Total/NA

Client Sample ID: PREVPAC4-122921

Lab Sample ID: 200-61618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24	J	50	20	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	11		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	11		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Trichloroethene	320		1.7	1.1	ppb v/v	47.8		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

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

Job ID: 200-61618-1
 SDG: 200-61618-1

Client Sample ID: PREVPGAC4-122921 (Continued)

Lab Sample ID: 200-61618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	57	J	120	48	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	43		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	44		16	7.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	1700		9.0	6.2	ug/m3	47.8		TO-15	Total/NA

Client Sample ID: POSTDILLUTION-EFF-122921

Lab Sample ID: 200-61618-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		0.50	0.33	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	27		4.0	1.8	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		2.0	1.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	110		16	7.1	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: SDS-1-122921

Lab Sample ID: 200-61618-1

Date Collected: 12/29/21 10:10

Matrix: Air

Date Received: 12/31/21 09:55

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	1.2	U	1.2	0.45	ppb v/v			01/06/22 02:24	16
1,1-Dichloroethene	0.56	U	0.56	0.46	ppb v/v			01/06/22 02:24	16
Acetone	80	U	80	32	ppb v/v			01/06/22 02:24	16
Methylene Chloride	8.0	U	8.0	2.7	ppb v/v			01/06/22 02:24	16
trans-1,2-Dichloroethene	3.2	U	3.2	1.4	ppb v/v			01/06/22 02:24	16
1,1-Dichloroethane	3.2	U	3.2	0.46	ppb v/v			01/06/22 02:24	16
cis-1,2-Dichloroethene	0.93		0.80	0.53	ppb v/v			01/06/22 02:24	16
1,2-Dichloroethene, Total	6.4	U	6.4	2.9	ppb v/v			01/06/22 02:24	16
1,1,1-Trichloroethane	3.2	U	3.2	0.62	ppb v/v			01/06/22 02:24	16
Carbon tetrachloride	0.56	U	0.56	0.51	ppb v/v			01/06/22 02:24	16
Benzene	3.2	U	3.2	1.2	ppb v/v			01/06/22 02:24	16
Trichloroethene	2600		2.9	2.0	ppb v/v			01/06/22 03:16	83.4
Toluene	3.2	U	3.2	1.5	ppb v/v			01/06/22 02:24	16
Tetrachloroethene	6.5		3.2	0.43	ppb v/v			01/06/22 02:24	16
Chlorobenzene	3.2	U	3.2	0.69	ppb v/v			01/06/22 02:24	16
m,p-Xylene	8.0	U	8.0	2.7	ppb v/v			01/06/22 02:24	16
Xylene, o-	3.2	U	3.2	1.5	ppb v/v			01/06/22 02:24	16
Bromoform	3.2	U	3.2	0.93	ppb v/v			01/06/22 02:24	16
1,1,2,2-Tetrachloroethane	3.2	U	3.2	0.69	ppb v/v			01/06/22 02:24	16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.2	U	3.2	1.1	ug/m3			01/06/22 02:24	16
1,1-Dichloroethene	2.2	U	2.2	1.8	ug/m3			01/06/22 02:24	16
Acetone	190	U	190	76	ug/m3			01/06/22 02:24	16
Methylene Chloride	28	U	28	9.4	ug/m3			01/06/22 02:24	16
trans-1,2-Dichloroethene	13	U	13	5.6	ug/m3			01/06/22 02:24	16
1,1-Dichloroethane	13	U	13	1.9	ug/m3			01/06/22 02:24	16
cis-1,2-Dichloroethene	3.7		3.2	2.1	ug/m3			01/06/22 02:24	16
1,2-Dichloroethene, Total	25	U	25	11	ug/m3			01/06/22 02:24	16
1,1,1-Trichloroethane	17	U	17	3.4	ug/m3			01/06/22 02:24	16
Carbon tetrachloride	3.5	U	3.5	3.2	ug/m3			01/06/22 02:24	16
Benzene	10	U	10	3.8	ug/m3			01/06/22 02:24	16
Trichloroethene	14000		16	11	ug/m3			01/06/22 03:16	83.4
Toluene	12	U	12	5.6	ug/m3			01/06/22 02:24	16
Tetrachloroethene	44		22	2.9	ug/m3			01/06/22 02:24	16
Chlorobenzene	15	U	15	3.2	ug/m3			01/06/22 02:24	16
m,p-Xylene	35	U	35	12	ug/m3			01/06/22 02:24	16
Xylene, o-	14	U	14	6.5	ug/m3			01/06/22 02:24	16
Bromoform	33	U	33	9.6	ug/m3			01/06/22 02:24	16
1,1,2,2-Tetrachloroethane	22	U	22	4.7	ug/m3			01/06/22 02:24	16

Client Sample ID: SDS-2-122921

Lab Sample ID: 200-61618-2

Date Collected: 12/29/21 10:15

Matrix: Air

Date Received: 12/31/21 09:55

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	0.94	U	0.94	0.34	ppb v/v			01/06/22 04:09	12
1,1-Dichloroethene	0.42	U	0.42	0.35	ppb v/v			01/06/22 04:09	12

Eurofins Burlington

Client Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: SDS-2-122921

Lab Sample ID: 200-61618-2

Date Collected: 12/29/21 10:15

Matrix: Air

Date Received: 12/31/21 09:55

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	93		60	24	ppb v/v			01/06/22 04:09	12
Methylene Chloride	6.0	U	6.0	2.0	ppb v/v			01/06/22 04:09	12
trans-1,2-Dichloroethene	2.4	U	2.4	1.1	ppb v/v			01/06/22 04:09	12
1,1-Dichloroethane	2.4	U	2.4	0.35	ppb v/v			01/06/22 04:09	12
cis-1,2-Dichloroethene	34		0.60	0.40	ppb v/v			01/06/22 04:09	12
1,2-Dichloroethene, Total	34		4.8	2.2	ppb v/v			01/06/22 04:09	12
1,1,1-Trichloroethane	2.4	U	2.4	0.47	ppb v/v			01/06/22 04:09	12
Carbon tetrachloride	0.42	U	0.42	0.38	ppb v/v			01/06/22 04:09	12
Benzene	2.4	U	2.4	0.89	ppb v/v			01/06/22 04:09	12
Trichloroethene	1800		2.1	1.4	ppb v/v			01/06/22 05:02	58.8
Toluene	2.4	U	2.4	1.1	ppb v/v			01/06/22 04:09	12
Tetrachloroethene	2.2 J		2.4	0.32	ppb v/v			01/06/22 04:09	12
Chlorobenzene	2.4	U	2.4	0.52	ppb v/v			01/06/22 04:09	12
m,p-Xylene	6.0	U	6.0	2.0	ppb v/v			01/06/22 04:09	12
Xylene, o-	2.4	U	2.4	1.1	ppb v/v			01/06/22 04:09	12
Bromoform	2.4	U	2.4	0.70	ppb v/v			01/06/22 04:09	12
1,1,2,2-Tetrachloroethane	2.4	U	2.4	0.52	ppb v/v			01/06/22 04:09	12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.4	U	2.4	0.86	ug/m3			01/06/22 04:09	12
1,1-Dichloroethene	1.7	U	1.7	1.4	ug/m3			01/06/22 04:09	12
Acetone	220		140	57	ug/m3			01/06/22 04:09	12
Methylene Chloride	21	U	21	7.1	ug/m3			01/06/22 04:09	12
trans-1,2-Dichloroethene	9.5	U	9.5	4.2	ug/m3			01/06/22 04:09	12
1,1-Dichloroethane	9.7	U	9.7	1.4	ug/m3			01/06/22 04:09	12
cis-1,2-Dichloroethene	140		2.4	1.6	ug/m3			01/06/22 04:09	12
1,2-Dichloroethene, Total	130		19	8.6	ug/m3			01/06/22 04:09	12
1,1,1-Trichloroethane	13	U	13	2.6	ug/m3			01/06/22 04:09	12
Carbon tetrachloride	2.6	U	2.6	2.4	ug/m3			01/06/22 04:09	12
Benzene	7.7	U	7.7	2.8	ug/m3			01/06/22 04:09	12
Trichloroethene	9500		11	7.6	ug/m3			01/06/22 05:02	58.8
Toluene	9.0	U	9.0	4.2	ug/m3			01/06/22 04:09	12
Tetrachloroethene	15 J		16	2.2	ug/m3			01/06/22 04:09	12
Chlorobenzene	11	U	11	2.4	ug/m3			01/06/22 04:09	12
m,p-Xylene	26	U	26	8.9	ug/m3			01/06/22 04:09	12
Xylene, o-	10	U	10	4.9	ug/m3			01/06/22 04:09	12
Bromoform	25	U	25	7.2	ug/m3			01/06/22 04:09	12
1,1,2,2-Tetrachloroethane	16	U	16	3.5	ug/m3			01/06/22 04:09	12

Client Sample ID: CMB-INF-122921

Lab Sample ID: 200-61618-3

Date Collected: 12/29/21 10:20

Matrix: Air

Date Received: 12/31/21 09:55

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	0.94	U	0.94	0.34	ppb v/v			01/06/22 05:55	12
1,1-Dichloroethene	0.42	U	0.42	0.35	ppb v/v			01/06/22 05:55	12
Acetone	60	U	60	24	ppb v/v			01/06/22 05:55	12
Methylene Chloride	6.0	U	6.0	2.0	ppb v/v			01/06/22 05:55	12

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Client Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: CMB-INF-122921

Lab Sample ID: 200-61618-3

Date Collected: 12/29/21 10:20

Matrix: Air

Date Received: 12/31/21 09:55

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
trans-1,2-Dichloroethene	2.4	U	2.4	1.1	ppb v/v			01/06/22 05:55	12
1,1-Dichloroethane	2.4	U	2.4	0.35	ppb v/v			01/06/22 05:55	12
cis-1,2-Dichloroethene	27		0.60	0.40	ppb v/v			01/06/22 05:55	12
1,2-Dichloroethene, Total	27		4.8	2.2	ppb v/v			01/06/22 05:55	12
1,1,1-Trichloroethane	2.4	U	2.4	0.47	ppb v/v			01/06/22 05:55	12
Carbon tetrachloride	0.42	U	0.42	0.38	ppb v/v			01/06/22 05:55	12
Benzene	2.4	U	2.4	0.89	ppb v/v			01/06/22 05:55	12
Trichloroethene	2300		2.1	1.4	ppb v/v			01/06/22 06:48	60
Toluene	2.4	U	2.4	1.1	ppb v/v			01/06/22 05:55	12
Tetrachloroethene	3.2		2.4	0.32	ppb v/v			01/06/22 05:55	12
Chlorobenzene	2.4	U	2.4	0.52	ppb v/v			01/06/22 05:55	12
m,p-Xylene	6.0	U	6.0	2.0	ppb v/v			01/06/22 05:55	12
Xylene, o-	2.4	U	2.4	1.1	ppb v/v			01/06/22 05:55	12
Bromoform	2.4	U	2.4	0.70	ppb v/v			01/06/22 05:55	12
1,1,2,2-Tetrachloroethane	2.4	U	2.4	0.52	ppb v/v			01/06/22 05:55	12
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.4	U	2.4	0.86	ug/m3			01/06/22 05:55	12
1,1-Dichloroethene	1.7	U	1.7	1.4	ug/m3			01/06/22 05:55	12
Acetone	140	U	140	57	ug/m3			01/06/22 05:55	12
Methylene Chloride	21	U	21	7.1	ug/m3			01/06/22 05:55	12
trans-1,2-Dichloroethene	9.5	U	9.5	4.2	ug/m3			01/06/22 05:55	12
1,1-Dichloroethane	9.7	U	9.7	1.4	ug/m3			01/06/22 05:55	12
cis-1,2-Dichloroethene	110		2.4	1.6	ug/m3			01/06/22 05:55	12
1,2-Dichloroethene, Total	110		19	8.6	ug/m3			01/06/22 05:55	12
1,1,1-Trichloroethane	13	U	13	2.6	ug/m3			01/06/22 05:55	12
Carbon tetrachloride	2.6	U	2.6	2.4	ug/m3			01/06/22 05:55	12
Benzene	7.7	U	7.7	2.8	ug/m3			01/06/22 05:55	12
Trichloroethene	12000		11	7.7	ug/m3			01/06/22 06:48	60
Toluene	9.0	U	9.0	4.2	ug/m3			01/06/22 05:55	12
Tetrachloroethene	22		16	2.2	ug/m3			01/06/22 05:55	12
Chlorobenzene	11	U	11	2.4	ug/m3			01/06/22 05:55	12
m,p-Xylene	26	U	26	8.9	ug/m3			01/06/22 05:55	12
Xylene, o-	10	U	10	4.9	ug/m3			01/06/22 05:55	12
Bromoform	25	U	25	7.2	ug/m3			01/06/22 05:55	12
1,1,2,2-Tetrachloroethane	16	U	16	3.5	ug/m3			01/06/22 05:55	12

Client Sample ID: POST-BLOWER-EFF-122921

Lab Sample ID: 200-61618-4

Date Collected: 12/29/21 10:35

Matrix: Air

Date Received: 12/31/21 09:55

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			01/06/22 20:59	10
1,1-Dichloroethene	0.35	U	0.35	0.29	ppb v/v			01/06/22 20:59	10
Acetone	50	U	50	20	ppb v/v			01/06/22 20:59	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			01/06/22 20:59	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			01/06/22 20:59	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			01/06/22 20:59	10

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Client Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: POST-BLOWER-EFF-122921

Lab Sample ID: 200-61618-4

Date Collected: 12/29/21 10:35

Matrix: Air

Date Received: 12/31/21 09:55

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
cis-1,2-Dichloroethene	27		0.50	0.33	ppb v/v			01/06/22 20:59	10
1,2-Dichloroethene, Total	27		4.0	1.8	ppb v/v			01/06/22 20:59	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			01/06/22 20:59	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			01/06/22 20:59	10
Benzene	2.0	U	2.0	0.74	ppb v/v			01/06/22 20:59	10
Trichloroethene	0.35	U	0.35	0.24	ppb v/v			01/06/22 20:59	10
Toluene	2.0	U	2.0	0.93	ppb v/v			01/06/22 20:59	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			01/06/22 20:59	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			01/06/22 20:59	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			01/06/22 20:59	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			01/06/22 20:59	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			01/06/22 20:59	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			01/06/22 20:59	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			01/06/22 20:59	10
1,1-Dichloroethene	1.4	U	1.4	1.1	ug/m3			01/06/22 20:59	10
Acetone	120	U	120	48	ug/m3			01/06/22 20:59	10
Methylene Chloride	17	U	17	5.9	ug/m3			01/06/22 20:59	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			01/06/22 20:59	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			01/06/22 20:59	10
cis-1,2-Dichloroethene	110		2.0	1.3	ug/m3			01/06/22 20:59	10
1,2-Dichloroethene, Total	110		16	7.1	ug/m3			01/06/22 20:59	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			01/06/22 20:59	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			01/06/22 20:59	10
Benzene	6.4	U	6.4	2.4	ug/m3			01/06/22 20:59	10
Trichloroethene	1.9	U	1.9	1.3	ug/m3			01/06/22 20:59	10
Toluene	7.5	U	7.5	3.5	ug/m3			01/06/22 20:59	10
Tetrachloroethene	14	U	14	1.8	ug/m3			01/06/22 20:59	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			01/06/22 20:59	10
m,p-Xylene	22	U	22	7.4	ug/m3			01/06/22 20:59	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			01/06/22 20:59	10
Bromoform	21	U	21	6.0	ug/m3			01/06/22 20:59	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			01/06/22 20:59	10

Client Sample ID: PREVPGAC4-122921

Lab Sample ID: 200-61618-5

Date Collected: 12/29/21 10:25

Matrix: Air

Date Received: 12/31/21 09:55

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			01/06/22 21:52	10
1,1-Dichloroethene	0.35	U	0.35	0.29	ppb v/v			01/06/22 21:52	10
Acetone	24	J	50	20	ppb v/v			01/06/22 21:52	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			01/06/22 21:52	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			01/06/22 21:52	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			01/06/22 21:52	10
cis-1,2-Dichloroethene	11		0.50	0.33	ppb v/v			01/06/22 21:52	10
1,2-Dichloroethene, Total	11		4.0	1.8	ppb v/v			01/06/22 21:52	10

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Client Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: PREVPGAC4-122921

Lab Sample ID: 200-61618-5

Date Collected: 12/29/21 10:25

Matrix: Air

Date Received: 12/31/21 09:55

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
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			01/06/22 21:52	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			01/06/22 21:52	10
Benzene	2.0	U	2.0	0.74	ppb v/v			01/06/22 21:52	10
Trichloroethene	320		1.7	1.1	ppb v/v			01/06/22 22:45	47.8
Toluene	2.0	U	2.0	0.93	ppb v/v			01/06/22 21:52	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			01/06/22 21:52	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			01/06/22 21:52	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			01/06/22 21:52	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			01/06/22 21:52	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			01/06/22 21:52	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			01/06/22 21:52	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			01/06/22 21:52	10
1,1-Dichloroethene	1.4	U	1.4	1.1	ug/m3			01/06/22 21:52	10
Acetone	57	J	120	48	ug/m3			01/06/22 21:52	10
Methylene Chloride	17	U	17	5.9	ug/m3			01/06/22 21:52	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			01/06/22 21:52	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			01/06/22 21:52	10
cis-1,2-Dichloroethene	43		2.0	1.3	ug/m3			01/06/22 21:52	10
1,2-Dichloroethene, Total	44		16	7.1	ug/m3			01/06/22 21:52	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			01/06/22 21:52	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			01/06/22 21:52	10
Benzene	6.4	U	6.4	2.4	ug/m3			01/06/22 21:52	10
Trichloroethene	1700		9.0	6.2	ug/m3			01/06/22 22:45	47.8
Toluene	7.5	U	7.5	3.5	ug/m3			01/06/22 21:52	10
Tetrachloroethene	14	U	14	1.8	ug/m3			01/06/22 21:52	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			01/06/22 21:52	10
m,p-Xylene	22	U	22	7.4	ug/m3			01/06/22 21:52	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			01/06/22 21:52	10
Bromoform	21	U	21	6.0	ug/m3			01/06/22 21:52	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			01/06/22 21:52	10

Client Sample ID: POSTDILLUTION-EFF-122921

Lab Sample ID: 200-61618-6

Date Collected: 12/29/21 10:30

Matrix: Air

Date Received: 12/31/21 09:55

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			01/06/22 23:37	10
1,1-Dichloroethene	0.35	U	0.35	0.29	ppb v/v			01/06/22 23:37	10
Acetone	50	U	50	20	ppb v/v			01/06/22 23:37	10
Methylene Chloride	5.0	U	5.0	1.7	ppb v/v			01/06/22 23:37	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.88	ppb v/v			01/06/22 23:37	10
1,1-Dichloroethane	2.0	U	2.0	0.29	ppb v/v			01/06/22 23:37	10
cis-1,2-Dichloroethene	27		0.50	0.33	ppb v/v			01/06/22 23:37	10
1,2-Dichloroethene, Total	27		4.0	1.8	ppb v/v			01/06/22 23:37	10
1,1,1-Trichloroethane	2.0	U	2.0	0.39	ppb v/v			01/06/22 23:37	10
Carbon tetrachloride	0.35	U	0.35	0.32	ppb v/v			01/06/22 23:37	10

Eurofins Burlington

Client Sample Results

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

Job ID: 200-61618-1
 SDG: 200-61618-1

Client Sample ID: POSTDILLUTION-EFF-122921

Lab Sample ID: 200-61618-6

Date Collected: 12/29/21 10:30

Matrix: Air

Date Received: 12/31/21 09:55

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
Benzene	2.0	U	2.0	0.74	ppb v/v			01/06/22 23:37	10
Trichloroethene	0.35	U	0.35	0.24	ppb v/v			01/06/22 23:37	10
Toluene	2.0	U	2.0	0.93	ppb v/v			01/06/22 23:37	10
Tetrachloroethene	2.0	U	2.0	0.27	ppb v/v			01/06/22 23:37	10
Chlorobenzene	2.0	U	2.0	0.43	ppb v/v			01/06/22 23:37	10
m,p-Xylene	5.0	U	5.0	1.7	ppb v/v			01/06/22 23:37	10
Xylene, o-	2.0	U	2.0	0.94	ppb v/v			01/06/22 23:37	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			01/06/22 23:37	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			01/06/22 23:37	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.72	ug/m3			01/06/22 23:37	10
1,1-Dichloroethene	1.4	U	1.4	1.1	ug/m3			01/06/22 23:37	10
Acetone	120	U	120	48	ug/m3			01/06/22 23:37	10
Methylene Chloride	17	U	17	5.9	ug/m3			01/06/22 23:37	10
trans-1,2-Dichloroethene	7.9	U	7.9	3.5	ug/m3			01/06/22 23:37	10
1,1-Dichloroethane	8.1	U	8.1	1.2	ug/m3			01/06/22 23:37	10
cis-1,2-Dichloroethene	110		2.0	1.3	ug/m3			01/06/22 23:37	10
1,2-Dichloroethene, Total	110		16	7.1	ug/m3			01/06/22 23:37	10
1,1,1-Trichloroethane	11	U	11	2.1	ug/m3			01/06/22 23:37	10
Carbon tetrachloride	2.2	U	2.2	2.0	ug/m3			01/06/22 23:37	10
Benzene	6.4	U	6.4	2.4	ug/m3			01/06/22 23:37	10
Trichloroethene	1.9	U	1.9	1.3	ug/m3			01/06/22 23:37	10
Toluene	7.5	U	7.5	3.5	ug/m3			01/06/22 23:37	10
Tetrachloroethene	14	U	14	1.8	ug/m3			01/06/22 23:37	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			01/06/22 23:37	10
m,p-Xylene	22	U	22	7.4	ug/m3			01/06/22 23:37	10
Xylene, o-	8.7	U	8.7	4.1	ug/m3			01/06/22 23:37	10
Bromoform	21	U	21	6.0	ug/m3			01/06/22 23:37	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			01/06/22 23:37	10

QC Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

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

Lab Sample ID: MB 200-175581/5
Matrix: Air
Analysis Batch: 175581

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	0.078	U	0.078	0.028	ppb v/v			01/05/22 13:10	1
1,1-Dichloroethene	0.035	U	0.035	0.029	ppb v/v			01/05/22 13:10	1
Acetone	5.0	U	5.0	2.0	ppb v/v			01/05/22 13:10	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			01/05/22 13:10	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			01/05/22 13:10	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			01/05/22 13:10	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			01/05/22 13:10	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.18	ppb v/v			01/05/22 13:10	1
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			01/05/22 13:10	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			01/05/22 13:10	1
Benzene	0.20	U	0.20	0.074	ppb v/v			01/05/22 13:10	1
Trichloroethene	0.035	U	0.035	0.024	ppb v/v			01/05/22 13:10	1
Toluene	0.20	U	0.20	0.093	ppb v/v			01/05/22 13:10	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			01/05/22 13:10	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			01/05/22 13:10	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			01/05/22 13:10	1
Xylene, o-	0.20	U	0.20	0.094	ppb v/v			01/05/22 13:10	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			01/05/22 13:10	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			01/05/22 13:10	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			01/05/22 13:10	1
1,1-Dichloroethene	0.14	U	0.14	0.11	ug/m3			01/05/22 13:10	1
Acetone	12	U	12	4.8	ug/m3			01/05/22 13:10	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			01/05/22 13:10	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			01/05/22 13:10	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			01/05/22 13:10	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			01/05/22 13:10	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.71	ug/m3			01/05/22 13:10	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			01/05/22 13:10	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			01/05/22 13:10	1
Benzene	0.64	U	0.64	0.24	ug/m3			01/05/22 13:10	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			01/05/22 13:10	1
Toluene	0.75	U	0.75	0.35	ug/m3			01/05/22 13:10	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			01/05/22 13:10	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			01/05/22 13:10	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			01/05/22 13:10	1
Xylene, o-	0.87	U	0.87	0.41	ug/m3			01/05/22 13:10	1
Bromoform	2.1	U	2.1	0.60	ug/m3			01/05/22 13:10	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			01/05/22 13:10	1

Lab Sample ID: LCS 200-175581/6
Matrix: Air
Analysis Batch: 175581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.08		ppb v/v		81	68 - 120
Acetone	10.0	9.72		ppb v/v		97	54 - 154

Eurofins Burlington

QC Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

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

Lab Sample ID: LCS 200-175581/6
Matrix: Air
Analysis Batch: 175581

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	9.65		ppb v/v		96	59 - 137
trans-1,2-Dichloroethene	10.0	9.16		ppb v/v		92	69 - 137
1,1-Dichloroethane	10.0	8.08		ppb v/v		81	66 - 130
cis-1,2-Dichloroethene	10.0	8.42		ppb v/v		84	72 - 121
1,1,1-Trichloroethane	10.0	11.7		ppb v/v		117	72 - 127
Carbon tetrachloride	10.0	12.0		ppb v/v		120	71 - 133
Benzene	10.0	8.78		ppb v/v		88	73 - 119
Trichloroethene	10.0	9.83		ppb v/v		98	73 - 122
Toluene	10.0	9.43		ppb v/v		94	75 - 122
Tetrachloroethene	10.0	12.2		ppb v/v		122	70 - 125
Chlorobenzene	10.0	10.1		ppb v/v		101	76 - 119
m,p-Xylene	20.0	21.0		ppb v/v		105	76 - 121
Xylene, o-	10.0	10.2		ppb v/v		102	73 - 123
Bromoform	10.0	12.6		ppb v/v		126	53 - 149
1,1,2,2-Tetrachloroethane	10.0	8.57		ppb v/v		86	74 - 126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	26	23.7		ug/m3		93	61 - 135
1,1-Dichloroethene	40	32.0		ug/m3		81	68 - 120
Acetone	24	23.1		ug/m3		97	54 - 154
Methylene Chloride	35	33.5		ug/m3		96	59 - 137
trans-1,2-Dichloroethene	40	36.3		ug/m3		92	69 - 137
1,1-Dichloroethane	40	32.7		ug/m3		81	66 - 130
cis-1,2-Dichloroethene	40	33.4		ug/m3		84	72 - 121
1,1,1-Trichloroethane	55	64.1		ug/m3		117	72 - 127
Carbon tetrachloride	63	75.3		ug/m3		120	71 - 133
Benzene	32	28.1		ug/m3		88	73 - 119
Trichloroethene	54	52.8		ug/m3		98	73 - 122
Toluene	38	35.5		ug/m3		94	75 - 122
Tetrachloroethene	68	83.0		ug/m3		122	70 - 125
Chlorobenzene	46	46.7		ug/m3		101	76 - 119
m,p-Xylene	87	91.2		ug/m3		105	76 - 121
Xylene, o-	43	44.5		ug/m3		102	73 - 123
Bromoform	100	130		ug/m3		126	53 - 149
1,1,2,2-Tetrachloroethane	69	58.8		ug/m3		86	74 - 126

Lab Sample ID: MB 200-175623/5
Matrix: Air
Analysis Batch: 175623

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			01/06/22 14:00	1
1,1-Dichloroethene	0.035	U	0.035	0.029	ppb v/v			01/06/22 14:00	1
Acetone	5.0	U	5.0	2.0	ppb v/v			01/06/22 14:00	1
Methylene Chloride	0.50	U	0.50	0.17	ppb v/v			01/06/22 14:00	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.088	ppb v/v			01/06/22 14:00	1
1,1-Dichloroethane	0.20	U	0.20	0.029	ppb v/v			01/06/22 14:00	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.033	ppb v/v			01/06/22 14:00	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.18	ppb v/v			01/06/22 14:00	1

Eurofins Burlington

QC Sample Results

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

Job ID: 200-61618-1
SDG: 200-61618-1

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

Lab Sample ID: MB 200-175623/5
Matrix: Air
Analysis Batch: 175623

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			01/06/22 14:00	1
Carbon tetrachloride	0.035	U	0.035	0.032	ppb v/v			01/06/22 14:00	1
Benzene	0.20	U	0.20	0.074	ppb v/v			01/06/22 14:00	1
Trichloroethene	0.035	U	0.035	0.024	ppb v/v			01/06/22 14:00	1
Toluene	0.20	U	0.20	0.093	ppb v/v			01/06/22 14:00	1
Tetrachloroethene	0.20	U	0.20	0.027	ppb v/v			01/06/22 14:00	1
Chlorobenzene	0.20	U	0.20	0.043	ppb v/v			01/06/22 14:00	1
m,p-Xylene	0.50	U	0.50	0.17	ppb v/v			01/06/22 14:00	1
Xylene, o-	0.20	U	0.20	0.094	ppb v/v			01/06/22 14:00	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			01/06/22 14:00	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			01/06/22 14:00	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	0.20	U	0.20	0.072	ug/m3			01/06/22 14:00	1
1,1-Dichloroethene	0.14	U	0.14	0.11	ug/m3			01/06/22 14:00	1
Acetone	12	U	12	4.8	ug/m3			01/06/22 14:00	1
Methylene Chloride	1.7	U	1.7	0.59	ug/m3			01/06/22 14:00	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.35	ug/m3			01/06/22 14:00	1
1,1-Dichloroethane	0.81	U	0.81	0.12	ug/m3			01/06/22 14:00	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			01/06/22 14:00	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.71	ug/m3			01/06/22 14:00	1
1,1,1-Trichloroethane	1.1	U	1.1	0.21	ug/m3			01/06/22 14:00	1
Carbon tetrachloride	0.22	U	0.22	0.20	ug/m3			01/06/22 14:00	1
Benzene	0.64	U	0.64	0.24	ug/m3			01/06/22 14:00	1
Trichloroethene	0.19	U	0.19	0.13	ug/m3			01/06/22 14:00	1
Toluene	0.75	U	0.75	0.35	ug/m3			01/06/22 14:00	1
Tetrachloroethene	1.4	U	1.4	0.18	ug/m3			01/06/22 14:00	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			01/06/22 14:00	1
m,p-Xylene	2.2	U	2.2	0.74	ug/m3			01/06/22 14:00	1
Xylene, o-	0.87	U	0.87	0.41	ug/m3			01/06/22 14:00	1
Bromoform	2.1	U	2.1	0.60	ug/m3			01/06/22 14:00	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			01/06/22 14:00	1

Lab Sample ID: LCS 200-175623/4
Matrix: Air
Analysis Batch: 175623

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Vinyl chloride	10.0	10.3		ppb v/v		103	61 - 135
1,1-Dichloroethene	10.0	8.86		ppb v/v		89	68 - 120
Acetone	10.0	10.5		ppb v/v		105	54 - 154
Methylene Chloride	10.0	10.8		ppb v/v		108	59 - 137
trans-1,2-Dichloroethene	10.0	9.94		ppb v/v		99	69 - 137
1,1-Dichloroethane	10.0	8.64		ppb v/v		86	66 - 130
cis-1,2-Dichloroethene	10.0	8.67		ppb v/v		87	72 - 121
1,1,1-Trichloroethane	10.0	12.4		ppb v/v		124	72 - 127
Carbon tetrachloride	10.0	12.6		ppb v/v		126	71 - 133
Benzene	10.0	9.09		ppb v/v		91	73 - 119
Trichloroethene	10.0	10.1		ppb v/v		101	73 - 122

Eurofins Burlington

QC Sample Results

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

Job ID: 200-61618-1
 SDG: 200-61618-1

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

Lab Sample ID: LCS 200-175623/4
Matrix: Air
Analysis Batch: 175623

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	10.0	9.70		ppb v/v		97	75 - 122
Tetrachloroethene	10.0	12.5		ppb v/v		125	70 - 125
Chlorobenzene	10.0	10.2		ppb v/v		102	76 - 119
m,p-Xylene	20.0	21.9		ppb v/v		110	76 - 121
Xylene, o-	10.0	10.7		ppb v/v		107	73 - 123
Bromoform	10.0	12.9		ppb v/v		129	53 - 149
1,1,2,2-Tetrachloroethane	10.0	8.85		ppb v/v		89	74 - 126
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	26	26.2		ug/m3		103	61 - 135
1,1-Dichloroethene	40	35.1		ug/m3		89	68 - 120
Acetone	24	25.0		ug/m3		105	54 - 154
Methylene Chloride	35	37.6		ug/m3		108	59 - 137
trans-1,2-Dichloroethene	40	39.4		ug/m3		99	69 - 137
1,1-Dichloroethane	40	35.0		ug/m3		86	66 - 130
cis-1,2-Dichloroethene	40	34.4		ug/m3		87	72 - 121
1,1,1-Trichloroethane	55	67.6		ug/m3		124	72 - 127
Carbon tetrachloride	63	79.5		ug/m3		126	71 - 133
Benzene	32	29.0		ug/m3		91	73 - 119
Trichloroethene	54	54.4		ug/m3		101	73 - 122
Toluene	38	36.5		ug/m3		97	75 - 122
Tetrachloroethene	68	84.5		ug/m3		125	70 - 125
Chlorobenzene	46	47.1		ug/m3		102	76 - 119
m,p-Xylene	87	95.2		ug/m3		110	76 - 121
Xylene, o-	43	46.3		ug/m3		107	73 - 123
Bromoform	100	133		ug/m3		129	53 - 149
1,1,2,2-Tetrachloroethane	69	60.8		ug/m3		89	74 - 126

QC Association Summary

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

Job ID: 200-61618-1
SDG: 200-61618-1

Air - GC/MS VOA

Analysis Batch: 175581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-61618-1	SDS-1-122921	Total/NA	Air	TO-15	
200-61618-1	SDS-1-122921	Total/NA	Air	TO-15	
200-61618-2	SDS-2-122921	Total/NA	Air	TO-15	
200-61618-2	SDS-2-122921	Total/NA	Air	TO-15	
200-61618-3	CMB-INF-122921	Total/NA	Air	TO-15	
200-61618-3	CMB-INF-122921	Total/NA	Air	TO-15	
MB 200-175581/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-175581/6	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 175623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-61618-4	POST-BLOWER-EFF-122921	Total/NA	Air	TO-15	
200-61618-5	PREVPGAC4-122921	Total/NA	Air	TO-15	
200-61618-5	PREVPGAC4-122921	Total/NA	Air	TO-15	
200-61618-6	POSTDILLUTION-EFF-122921	Total/NA	Air	TO-15	
MB 200-175623/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-175623/4	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

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

Job ID: 200-61618-1
SDG: 200-61618-1

Client Sample ID: SDS-1-122921

Lab Sample ID: 200-61618-1

Date Collected: 12/29/21 10:10

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		16	175581	01/06/22 02:24	A1B	TAL BUR
Total/NA	Analysis	TO-15		83.4	175581	01/06/22 03:16	A1B	TAL BUR

Client Sample ID: SDS-2-122921

Lab Sample ID: 200-61618-2

Date Collected: 12/29/21 10:15

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		12	175581	01/06/22 04:09	A1B	TAL BUR
Total/NA	Analysis	TO-15		58.8	175581	01/06/22 05:02	A1B	TAL BUR

Client Sample ID: CMB-INF-122921

Lab Sample ID: 200-61618-3

Date Collected: 12/29/21 10:20

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		12	175581	01/06/22 05:55	A1B	TAL BUR
Total/NA	Analysis	TO-15		60	175581	01/06/22 06:48	A1B	TAL BUR

Client Sample ID: POST-BLOWER-EFF-122921

Lab Sample ID: 200-61618-4

Date Collected: 12/29/21 10:35

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	175623	01/06/22 20:59	K1P	TAL BUR

Client Sample ID: PREVPGAC4-122921

Lab Sample ID: 200-61618-5

Date Collected: 12/29/21 10:25

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	175623	01/06/22 21:52	K1P	TAL BUR
Total/NA	Analysis	TO-15		47.8	175623	01/06/22 22:45	K1P	TAL BUR

Client Sample ID: POSTDILLUTION-EFF-122921

Lab Sample ID: 200-61618-6

Date Collected: 12/29/21 10:30

Matrix: Air

Date Received: 12/31/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	175623	01/06/22 23:37	K1P	TAL BUR

Laboratory References:

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

Eurofins Burlington

Accreditation/Certification Summary

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

Job ID: 200-61618-1
SDG: 200-61618-1

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	04-01-22

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

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

Job ID: 200-61618-1
SDG: 200-61618-1

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

- 1
- 2
- 3
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- 14
- 15
- 16

Sample Summary

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

Job ID: 200-61618-1
SDG: 200-61618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-61618-1	SDS-1-122921	Air	12/29/21 10:10	12/31/21 09:55	Air Canister (1-Liter) #6481
200-61618-2	SDS-2-122921	Air	12/29/21 10:15	12/31/21 09:55	Air Canister (1-Liter) #6430
200-61618-3	CMB-INF-122921	Air	12/29/21 10:20	12/31/21 09:55	Air Canister (1-Liter) #6475
200-61618-4	POST-BLOWER-EFF-122921	Air	12/29/21 10:35	12/31/21 09:55	Air Canister (1-Liter) #6453
200-61618-5	PREVPGAC4-122921	Air	12/29/21 10:25	12/31/21 09:55	Air Canister (1-Liter) #34001134
200-61618-6	POSTDILLUTION-EFF-122921	Air	12/29/21 10:30	12/31/21 09:55	Air Canister (1-Liter) #34001643

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- 14
- 15
- 16



200-61618 Chain of Custody

Canister Samples Chain of Custody Record

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

1 of 1 COCs

For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Other (Please specify in notes section)

Landfill Gas

Soil Vapor Extraction (SVE)

Soil Gas

Sub-Slab

Indoor Air/Ambient Air

Sample Type

Other (Please specify in notes section)

EPA 15/16

ASTM D-1946

EPA 25C

EPA 3C

TO-15 SIM

TO-15

Flow Controller ID

Canister ID

Sample Specific Notes:

Project Manager: Aaron Richardson Phone: 585-662-4024 Email: Aaron.Richardson@arcadis.com

Site Contact: Klaus Beyrle TA Contact: Don Dawicki Analysis Turnaround Time: 10 Day

Standard (Specific): Rush (Specify):

Sample Date(s) Time Start Time Stop Canister Vacuum in Field, 'Hg (Start) Canister Vacuum in Field, 'Hg (Stop)

SDS-1- 122921 1010 NA -28 -6

SDS-2- 122921 1015 -29 -6

CMB-INF- 122921 1020 -29 -6

POST-BLOWER-EFF- 122921 1035 -29 -6

PREVPGAC- 122921 1035 -27 -6

POST-DILUTION-EFF- 122921 1030 -29 -6

Temperature (Fahrenheit) Interior Ambient

Temperature (Fahrenheit) Interior Ambient

Special Instructions/QC Requirements & Comments:

Samples Shipped by: [Signature] Date / Time: 12/29/11 1050

Samples Relinquished by: [Signature] Date / Time: 12/31/11 0955

Relinquished by: [Signature] Date / Time:

Lab Use Only: Shipper Name: Opened by: Condition:

FROM: (585) 385-0090
NICHOLAS BEYRLE
ARCADIS
100 Chestnut Street
Suite 1020
ROCHESTER NY 14604
US

SHIP DATE: 29DEC21
ACTWGT: 15.00 LB
CAD: 251633806/INET4400

BILL SENDER

TO Sample Receiving
TestAmerica Eurofins
30 COMMUNITY DR

SOUTH BURLINGTON VT 05403

(US)

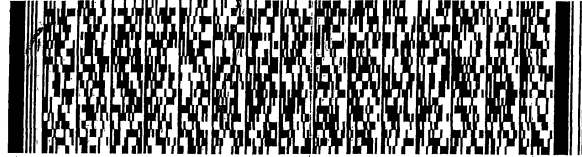
(802) 660-1990

REF: 30005202

INV:
PO:

DEPT:

FedEx Ship Manager - Print Your Label(s)



FedEx
Ground

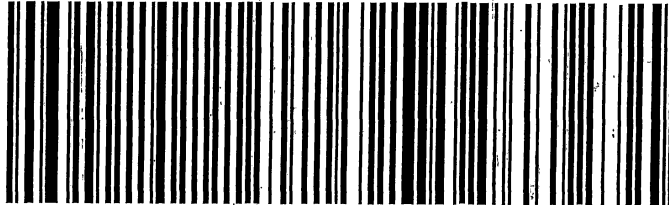


J212321121601lv

TRK# 7756 2164 7430

05403

9622 0019 0 (000 000 0000) 0 00 7756 2164 7430



12/29/21, 8:41 AM

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-61618-1

SDG Number: 200-61618-1

Login Number: 61618

List Number: 1

Creator: Beane, John P

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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	1534818, 1534819
Sample custody seals, if present, are intact.	N/A	Not Present
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.	True	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61110-1
 SDG No.: _____
 Client Sample ID: 3810 Lab Sample ID: 200-61110-8
 Matrix: Air Lab File ID: 48559-05.D
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174253 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
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61110-1
 SDG No.: _____
 Client Sample ID: 3810 Lab Sample ID: 200-61110-8
 Matrix: Air Lab File ID: 48559-05.D
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61110-1
 SDG No.: _____
 Client Sample ID: 3810 Lab Sample ID: 200-61110-8
 Matrix: Air Lab File ID: 48559-05.D
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20211126-48559.b\48559-05.D
 Lims ID: 200-61110-A-8
 Client ID: 3810
 Sample Type: Client
 Inject. Date: 26-Nov-2021 12:36:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0048559-005
 Operator ID: vtp Instrument ID: CHX.i
 Method: \\chromfs\Burlington\ChromData\CHX.i\20211126-48559.b\TO15_MasterMethod_X.m.m
 Limit Group: AI_TO15_ICAL
 Last Update: 29-Nov-2021 07:39:02 Calib Date: 01-Nov-2021 23:34:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20211101-48239.b\48239-12.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1672

First Level Reviewer: puangmaleek

Date: 29-Nov-2021 07:39:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.338				ND	7
3 Dichlorodifluoromethane	85		4.429				ND	
4 Chlorodifluoromethane	51		4.472				ND	
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.782				ND	
6 Chloromethane	50		4.905				ND	
7 Vinyl chloride	62		5.215				ND	
8 Butane	43		5.221				ND	7
9 Butadiene	54		5.328				ND	
10 Bromomethane	94		6.034				ND	
12 Chloroethane	64		6.301				ND	
14 Vinyl bromide	106		6.718				ND	
15 Trichlorofluoromethane	101		6.879				ND	
17 Ethanol	45		7.184				ND	U
20 1,1-Dichloroethene	96		7.928				ND	
21 112TCTFE	101		7.965				ND	
22 Acetone	43		7.970				ND	
23 Isopropyl alcohol	45		8.232				ND	7
24 Carbon disulfide	76		8.350				ND	
27 3-Chloro-1-propene	41		8.618				ND	
28 Methylene Chloride	49		8.842				ND	7
29 2-Methyl-2-propanol	59		8.997				ND	
31 Methyl tert-butyl ether	73		9.329				ND	
32 trans-1,2-Dichloroethene	61		9.351				ND	
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.848				ND	
35 Vinyl acetate	43		10.099				ND	
36 1,1-Dichloroethane	63		10.105				ND	
37 2-Butanone (MEK)	72		11.041				ND	
38 cis-1,2-Dichloroethene	96		11.089				ND	
39 Ethyl acetate	88		11.127				ND	
* 40 Chlorobromomethane	128	11.501	11.506	-0.005	96	103844	10.0	
41 Tetrahydrofuran	42		11.533				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		11.678				ND	
43 1,1,1-Trichloroethane	97		11.988				ND	
44 Cyclohexane	84		12.138				ND	
45 Carbon tetrachloride	117		12.277				ND	
46 Benzene	78		12.614				ND	
47 1,2-Dichloroethane	62		12.689				ND	
48 Isooctane	57		12.822				ND	
49 n-Heptane	43		13.133				ND	
* 50 1,4-Difluorobenzene	114	13.341	13.341	0.000	95	537393	10.0	
52 Trichloroethene	95		13.780				ND	
55 1,2-Dichloropropane	63		14.235				ND	
56 Methyl methacrylate	69		14.304				ND	
57 1,4-Dioxane	88		14.347				ND	
58 Dibromomethane	174		14.395				ND	
59 Dichlorobromomethane	83		14.700				ND	
60 cis-1,3-Dichloropropene	75		15.497				ND	
62 4-Methyl-2-pentanone (MIBK)	43		15.727				ND	
63 Toluene	92		16.139				ND	
67 trans-1,3-Dichloropropene	75		16.546				ND	
68 1,1,2-Trichloroethane	83		16.926				ND	
69 Tetrachloroethene	166		17.129				ND	
70 2-Hexanone	43		17.306				ND	
71 Chlorodibromomethane	129		17.669				ND	
72 Ethylene Dibromide	107		17.915				ND	
* 73 Chlorobenzene-d5	117	18.814	18.814	0.000	88	393224	10.0	
74 Chlorobenzene	112		18.878				ND	
75 Ethylbenzene	91		19.066				ND	7
76 m-Xylene & p-Xylene	106		19.328				ND	
S 78 Xylenes, Total	106		19.600				ND	7
79 o-Xylene	106		20.098				ND	
80 Styrene	104		20.136				ND	
81 Bromoform	173		20.489				ND	
82 Isopropylbenzene	105		20.788				ND	
83 1,1,2,2-Tetrachloroethane	83		21.302				ND	
85 N-Propylbenzene	91		21.505				ND	7
86 2-Chlorotoluene	91		21.649				ND	7
87 4-Ethyltoluene	105		21.698				ND	7
88 1,3,5-Trimethylbenzene	105		21.794				ND	7
91 tert-Butylbenzene	119		22.275				ND	
92 1,2,4-Trimethylbenzene	105		22.361				ND	
93 sec-Butylbenzene	105		22.596				ND	
94 1,3-Dichlorobenzene	146		22.773				ND	7
95 4-Isopropyltoluene	119		22.810				ND	7
96 1,4-Dichlorobenzene	146	22.917	22.917	0.000	83	359	0.0147	
97 Benzyl chloride	91		23.056				ND	7
98 n-Butylbenzene	91		23.367				ND	7
99 1,2-Dichlorobenzene	146		23.404				ND	7
102 1,2,4-Trichlorobenzene	180		25.844				ND	
103 Hexachlorobutadiene	225		26.084				ND	
104 Naphthalene	128		26.325				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15XISs_00003

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20211126-48559.b\48559-05.D

Injection Date: 26-Nov-2021 12:36:30

Instrument ID: CHX.i

Operator ID: vtp

Lims ID: 200-61110-A-8

Lab Sample ID: 200-61110-8

Worklist Smp#: 5

Client ID: 3810

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

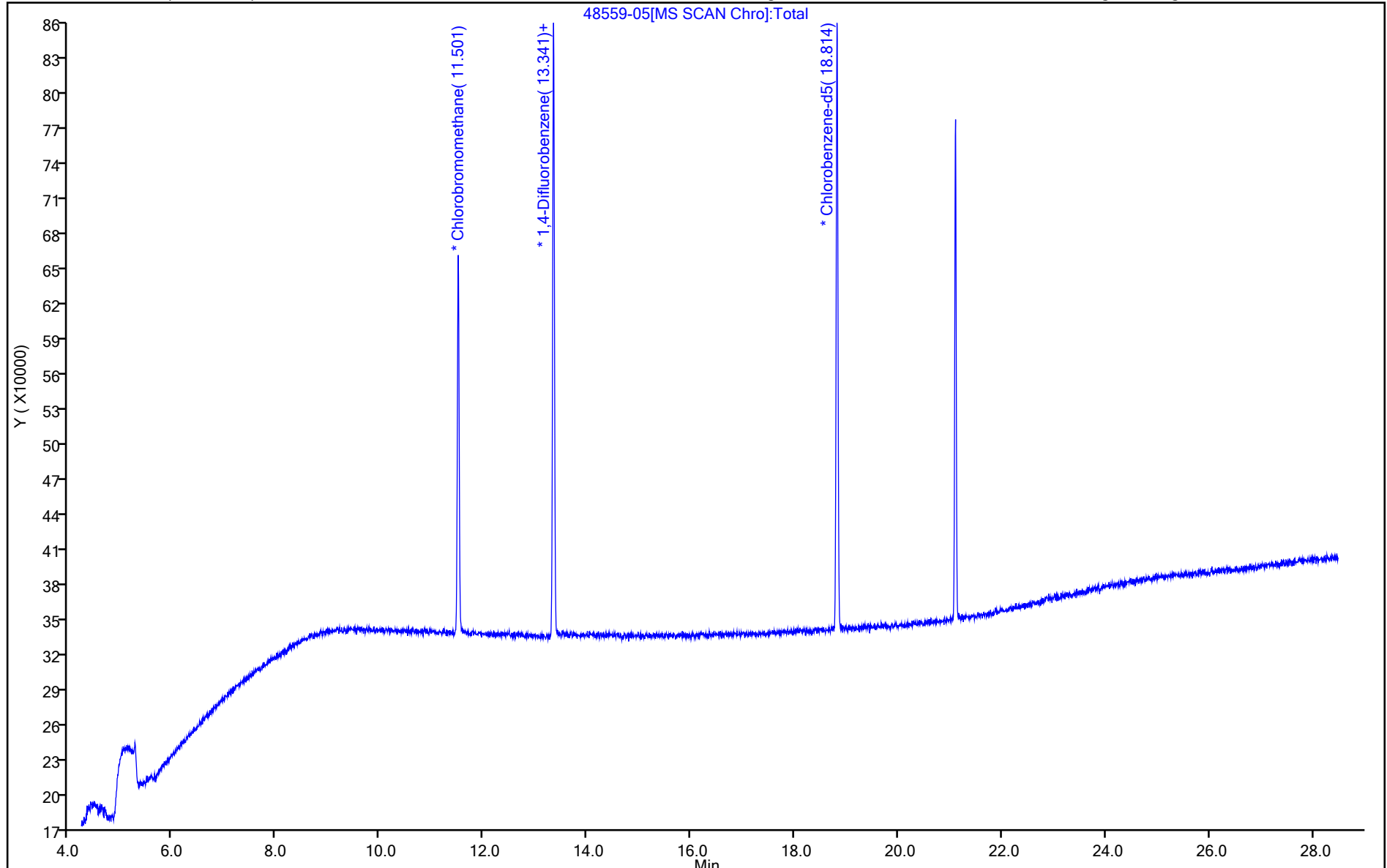
ALS Bottle#: 4

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

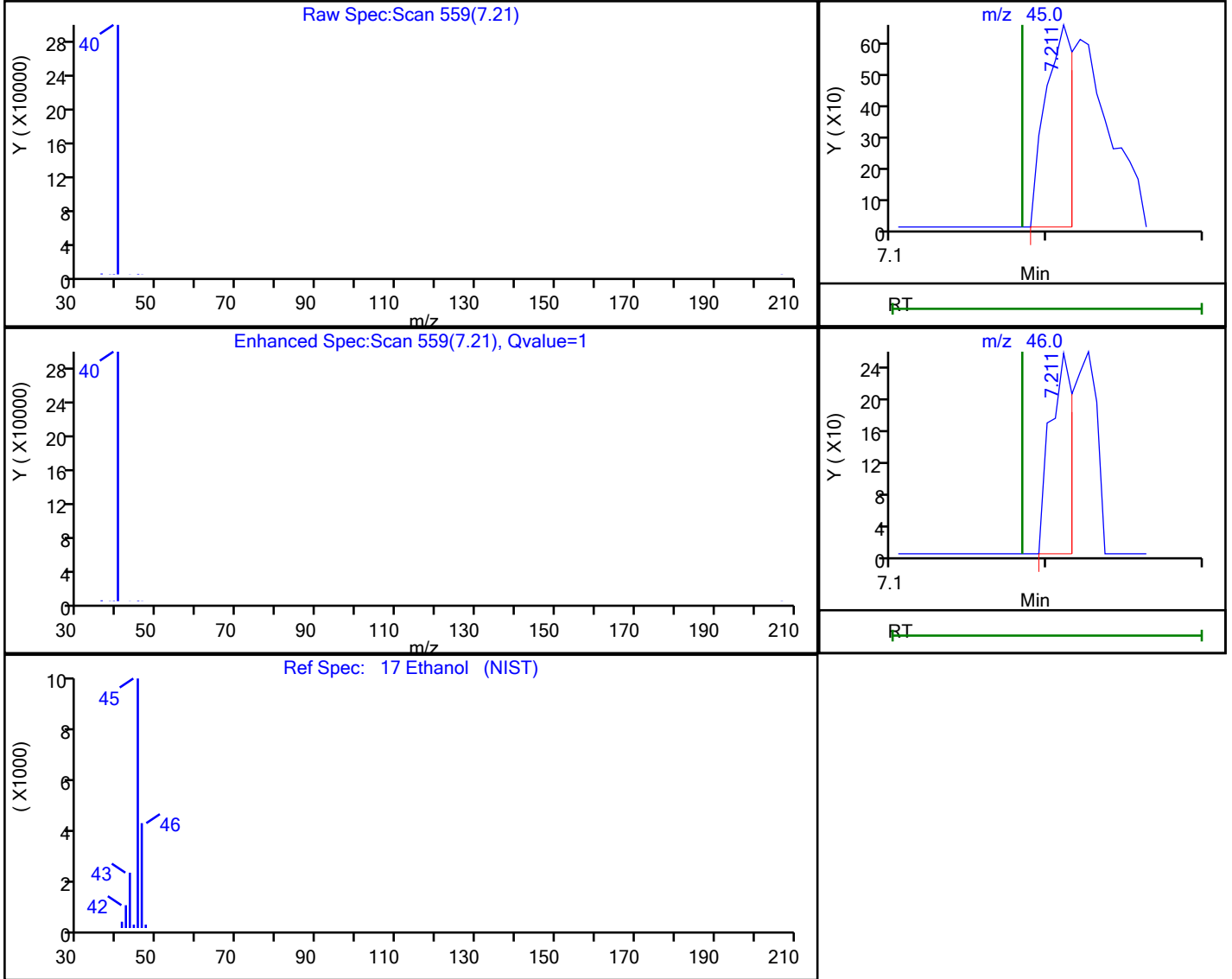


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20211126-48559.b\48559-05.D
 Injection Date: 26-Nov-2021 12:36:30 Instrument ID: CHX.i
 Lims ID: 200-61110-A-8 Lab Sample ID: 200-61110-8
 Client ID: 3810
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
 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

17 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
7.21	45.00	807	0.081701
7.21	46.00	257	

Reviewer: puangmaleek, 29-Nov-2021 07:38:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61111-1
 SDG No.: _____
 Client Sample ID: 34001643 Lab Sample ID: 200-61111-8
 Matrix: Air Lab File ID: 48560-005.d
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174255 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
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61111-1
 SDG No.: _____
 Client Sample ID: 34001643 Lab Sample ID: 200-61111-8
 Matrix: Air Lab File ID: 48560-005.d
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174255 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61111-1
 SDG No.: _____
 Client Sample ID: 34001643 Lab Sample ID: 200-61111-8
 Matrix: Air Lab File ID: 48560-005.d
 Analysis Method: TO-15 Date Collected: 11/23/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174255 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211126-48560.b\48560-005.d
 Lims ID: 200-61111-A-8
 Client ID: 34001643
 Sample Type: Client
 Inject. Date: 26-Nov-2021 13:15:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0048560-005
 Operator ID: vtp Instrument ID: CHW.i
 Method: \\chromfs\Burlington\ChromData\CHW.i\20211126-48560.b\TO15_TO3_MasterMethod_W.m
 Limit Group: AI_TO15_ICAL
 Last Update: 29-Nov-2021 09:04:04 Calib Date: 21-Oct-2021 09:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20211020-48067.b\48067-021.d
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1672

First Level Reviewer: puangmaleek

Date: 29-Nov-2021 09:15:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.115				ND	
2 Dichlorodifluoromethane	85		4.206				ND	
3 Chlorodifluoromethane	51		4.254				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.570				ND	
5 Chloromethane	50		4.682				ND	
6 Vinyl chloride	62		4.998				ND	
7 Butane	43		4.998				ND	
8 Butadiene	54		5.116				ND	
9 Bromomethane	94		5.833				ND	
10 Chloroethane	64		6.111				ND	
13 Vinyl bromide	106		6.533				ND	
14 Trichlorofluoromethane	101		6.694				ND	
16 Ethanol	45		7.100				ND	
20 1,1-Dichloroethene	96		7.769				ND	
21 112TCTFE	101		7.807				ND	
22 Acetone	43		7.871				ND	
24 Isopropyl alcohol	45		8.176				ND	
23 Carbon disulfide	76	8.181	8.176	0.005	94	598	0.0249	
26 3-Chloro-1-propene	41		8.470				ND	
27 Methylene Chloride	49		8.700				ND	
28 2-Methyl-2-propanol	59		8.957				ND	
30 trans-1,2-Dichloroethene	61		9.203				ND	
31 Methyl tert-butyl ether	73		9.230				ND	
32 Hexane	57		9.711				ND	
33 1,1-Dichloroethane	63		9.968				ND	
34 Vinyl acetate	43		9.984				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
37 2-Butanone (MEK)	72		10.952				ND	
36 cis-1,2-Dichloroethene	96		10.963				ND	
38 Ethyl acetate	88		11.038				ND	
* 39 Chlorobromomethane	128	11.375	11.375	0.000	70	63826	10.0	
40 Tetrahydrofuran	42		11.439				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		11.551				ND	
42 1,1,1-Trichloroethane	97		11.862				ND	
43 Cyclohexane	84		12.001				ND	
44 Carbon tetrachloride	117		12.145				ND	
45 Benzene	78		12.488				ND	
46 1,2-Dichloroethane	62		12.563				ND	
47 Isooctane	57		12.707				ND	
48 n-Heptane	43		13.017				ND	
* 49 1,4-Difluorobenzene	114	13.226	13.231	-0.005	93	297794	10.0	
51 Trichloroethene	95		13.659				ND	
53 1,2-Dichloropropane	63		14.114				ND	
55 Methyl methacrylate	69		14.216				ND	
57 1,4-Dioxane	88		14.274				ND	
56 Dibromomethane	174		14.274				ND	
58 Dichlorobromomethane	83		14.585				ND	
60 cis-1,3-Dichloropropene	75		15.393				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.665				ND	
62 Toluene	92		16.034				ND	
64 trans-1,3-Dichloropropene	75		16.446				ND	
65 1,1,2-Trichloroethane	83		16.821				ND	
66 Tetrachloroethene	166		17.024				ND	
67 2-Hexanone	43		17.254				ND	
68 Chlorodibromomethane	129		17.564				ND	
69 Ethylene Dibromide	107		17.805				ND	
* 70 Chlorobenzene-d5	117	18.709	18.715	-0.006	84	226115	10.0	
72 Chlorobenzene	112		18.774				ND	
73 Ethylbenzene	91		18.966				ND	7
74 m-Xylene & p-Xylene	106		19.239				ND	
76 o-Xylene	106		20.004				ND	
77 Styrene	104		20.041				ND	
S 78 Xylenes, Total	106		20.100				ND	7
79 Bromoform	173		20.394				ND	
80 Isopropylbenzene	105		20.710				ND	
81 1,1,2,2-Tetrachloroethane	83		21.229				ND	
83 N-Propylbenzene	91		21.432				ND	
84 2-Chlorotoluene	91		21.582				ND	
85 4-Ethyltoluene	105		21.636				ND	
86 1,3,5-Trimethylbenzene	105		21.732				ND	
89 tert-Butylbenzene	119		22.213				ND	
90 1,2,4-Trimethylbenzene	105		22.299				ND	
91 sec-Butylbenzene	105		22.540				ND	
92 1,3-Dichlorobenzene	146		22.711				ND	
93 4-Isopropyltoluene	119		22.754				ND	
94 1,4-Dichlorobenzene	146		22.855				ND	
95 Benzyl chloride	91		23.000				ND	
96 n-Butylbenzene	91		23.310				ND	
97 1,2-Dichlorobenzene	146		23.337				ND	7
100 1,2,4-Trichlorobenzene	180		25.766				ND	
101 Hexachlorobutadiene	225		26.006				ND	
102 Naphthalene	128		26.236				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211126-48560.b\48560-005.d

Injection Date: 26-Nov-2021 13:15:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-61111-A-8

Lab Sample ID: 200-61111-8

Worklist Smp#: 5

Client ID: 34001643

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

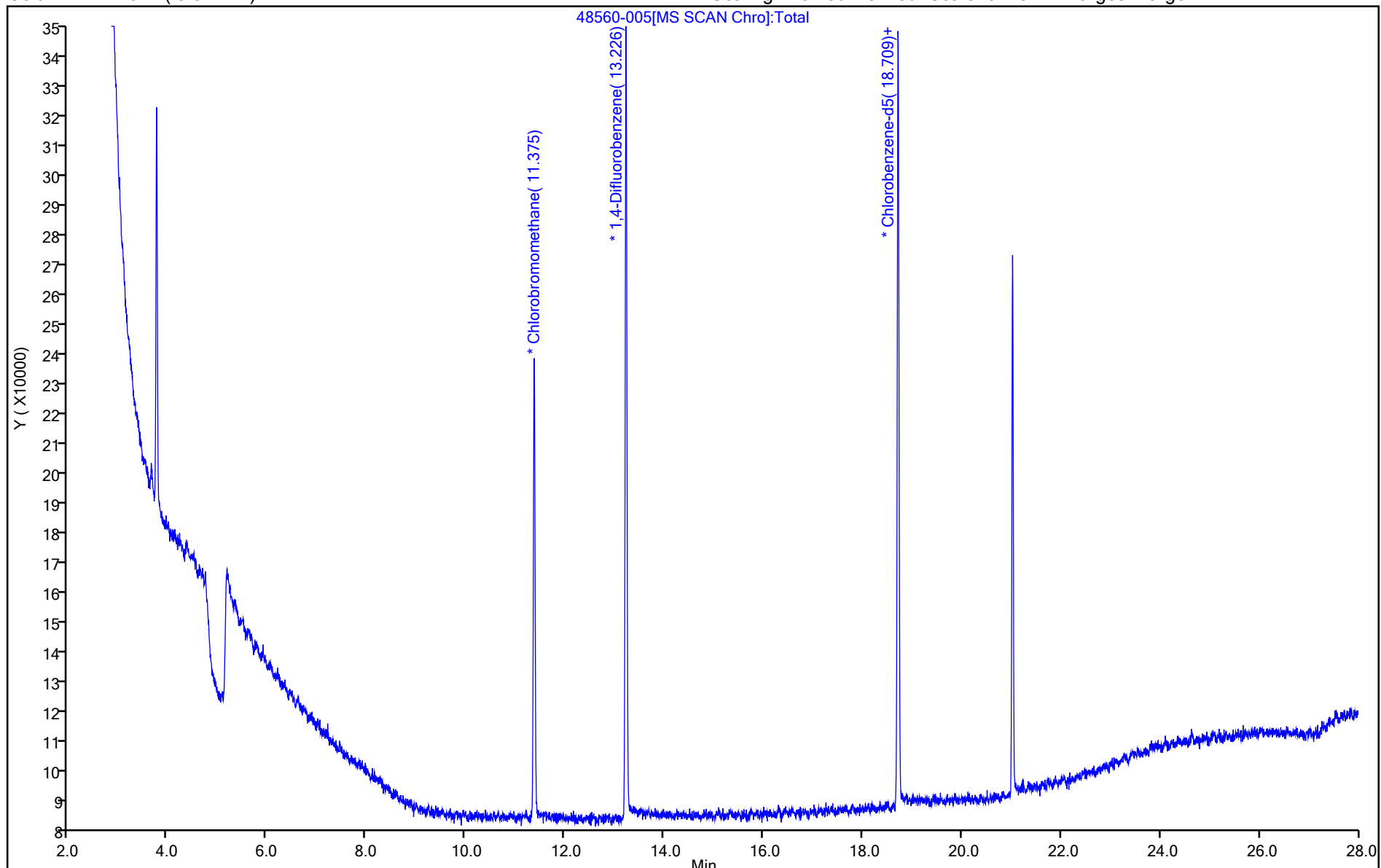
ALS Bottle#: 4

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 TestAmerica, Burlington Job No.: 200-61129-1
 SDG No.: _____
 Client Sample ID: 4963 Lab Sample ID: 200-61129-9
 Matrix: Air Lab File ID: 48561-06.D
 Analysis Method: TO-15 Date Collected: 11/24/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174257 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
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61129-1
 SDG No.: _____
 Client Sample ID: 4963 Lab Sample ID: 200-61129-9
 Matrix: Air Lab File ID: 48561-06.D
 Analysis Method: TO-15 Date Collected: 11/24/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174257 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61129-1
 SDG No.: _____
 Client Sample ID: 4963 Lab Sample ID: 200-61129-9
 Matrix: Air Lab File ID: 48561-06.D
 Analysis Method: TO-15 Date Collected: 11/24/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 11/26/2021 13:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 174257 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20211126-48561.b\48561-06.D
 Lims ID: 200-61129-A-9
 Client ID: 4963
 Sample Type: Client
 Inject. Date: 26-Nov-2021 13:37:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0048561-006
 Operator ID: wrd Instrument ID: CHC.i
 Method: \\chromfs\Burlington\ChromData\CHC.i\20211126-48561.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 29-Nov-2021 08:12:14 Calib Date: 17-Nov-2021 09:10:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20211116-48441.b\48441-18.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: bunmaa

Date: 29-Nov-2021 08:12:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.826				ND	7
2 Dichlorodifluoromethane	85		2.885				ND	7
3 Chlorodifluoromethane	51		2.922				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.120				ND	7
5 Chloromethane	50		3.226				ND	7
6 Butane	43		3.418				ND	7
7 Vinyl chloride	62		3.445				ND	7
8 Butadiene	54		3.514				ND	U
10 Bromomethane	94		4.112				ND	7
11 Chloroethane	64		4.326				ND	7
13 Vinyl bromide	106		4.694				ND	7
14 Trichlorofluoromethane	101		4.811				ND	7
17 Ethanol	45		5.372				ND	7
20 1,1,2-Trichloro-1,2,2-trifluoro	101		5.857				ND	7
21 1,1-Dichloroethene	96		5.868				ND	7
22 Acetone	43		6.076				ND	7
23 Carbon disulfide	76		6.231				ND	7
24 Isopropyl alcohol	45		6.444				ND	7
25 3-Chloro-1-propene	41		6.615				ND	7
27 Methylene Chloride	49		6.893				ND	7
28 2-Methyl-2-propanol	59		7.229				ND	
31 trans-1,2-Dichloroethene	61		7.357				ND	7
29 Methyl tert-butyl ether	73		7.368				ND	7
33 Hexane	57		7.789				ND	7
34 1,1-Dichloroethane	63		8.184				ND	7
35 Vinyl acetate	43		8.291				ND	7
37 cis-1,2-Dichloroethene	96		9.273				ND	7
38 2-Butanone (MEK)	72		9.326				ND	7
39 Ethyl acetate	88		9.406				ND	7
* 40 Chlorobromomethane	128	9.705	9.711	-0.006	80	617123	20.0	
41 Tetrahydrofuran	42		9.780				ND	7
42 Chloroform	83		9.865				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
44 1,1,1-Trichloroethane	97		10.138				ND	7
43 Cyclohexane	84		10.148				ND	7
S 30 1,2-Dichloroethene, Total	61		10.200				ND	7
45 Carbon tetrachloride	117		10.410				ND	7
47 Benzene	78		10.831				ND	7
46 Isooctane	57		10.890				ND	7
48 1,2-Dichloroethane	62		10.981				ND	7
49 n-Heptane	43		11.296				ND	7
* 50 1,4-Difluorobenzene	114	11.675	11.675	0.000	94	3086068	20.0	
53 Trichloroethene	95		12.150				ND	7
54 1,2-Dichloropropane	63		12.651				ND	7
55 Methyl methacrylate	69		12.891				ND	7
57 Dibromomethane	174		12.902				ND	7
56 1,4-Dioxane	88		12.939				ND	7
58 Dichlorobromomethane	83		13.228				ND	7
60 cis-1,3-Dichloropropene	75		14.188				ND	7
61 4-Methyl-2-pentanone (MIBK)	43		14.514				ND	7
65 Toluene	92		14.802				ND	7
66 trans-1,3-Dichloropropene	75		15.394				ND	7
67 1,1,2-Trichloroethane	83		15.757				ND	7
68 Tetrachloroethene	166		15.928				ND	7
69 2-Hexanone	43		16.264				ND	7
71 Chlorodibromomethane	129		16.531				ND	7
72 Ethylene Dibromide	107		16.777				ND	7
* 74 Chlorobenzene-d5	117	17.711	17.716	-0.005	86	3135965	20.0	
75 Chlorobenzene	112		17.769				ND	7
76 Ethylbenzene	91		17.951				ND	7
78 m-Xylene & p-Xylene	106		18.207				ND	7
79 o-Xylene	106		19.040				ND	7
80 Styrene	104		19.088				ND	7
81 Bromoform	173		19.499				ND	7
82 Isopropylbenzene	105		19.792				ND	7
S 73 Xylenes, Total	106		20.100				ND	7
84 1,1,2,2-Tetrachloroethane	83		20.475				ND	7
85 N-Propylbenzene	91		20.587				ND	7
89 2-Chlorotoluene	91		20.785				ND	7
88 4-Ethyltoluene	105		20.801				ND	7
90 1,3,5-Trimethylbenzene	105		20.918				ND	7
92 tert-Butylbenzene	119		21.436				ND	7
93 1,2,4-Trimethylbenzene	105		21.537				ND	7
94 sec-Butylbenzene	105		21.783				ND	7
95 4-Isopropyltoluene	119		22.002				ND	7
96 1,3-Dichlorobenzene	146		22.007				ND	7
97 1,4-Dichlorobenzene	146		22.146				ND	7
98 Benzyl chloride	91		22.338				ND	7
100 n-Butylbenzene	91		22.589				ND	7
101 1,2-Dichlorobenzene	146		22.674				ND	7
103 1,2,4-Trichlorobenzene	180		25.001				ND	7
104 Hexachlorobutadiene	225		25.209				ND	7
105 Naphthalene	128		25.412				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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20211126-48561.b\48561-06.D

Injection Date: 26-Nov-2021 13:37:30

Instrument ID: CHC.i

Operator ID: wrd

Lims ID: 200-61129-A-9

Lab Sample ID: 200-61129-9

Worklist Smp#: 6

Client ID: 4963

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

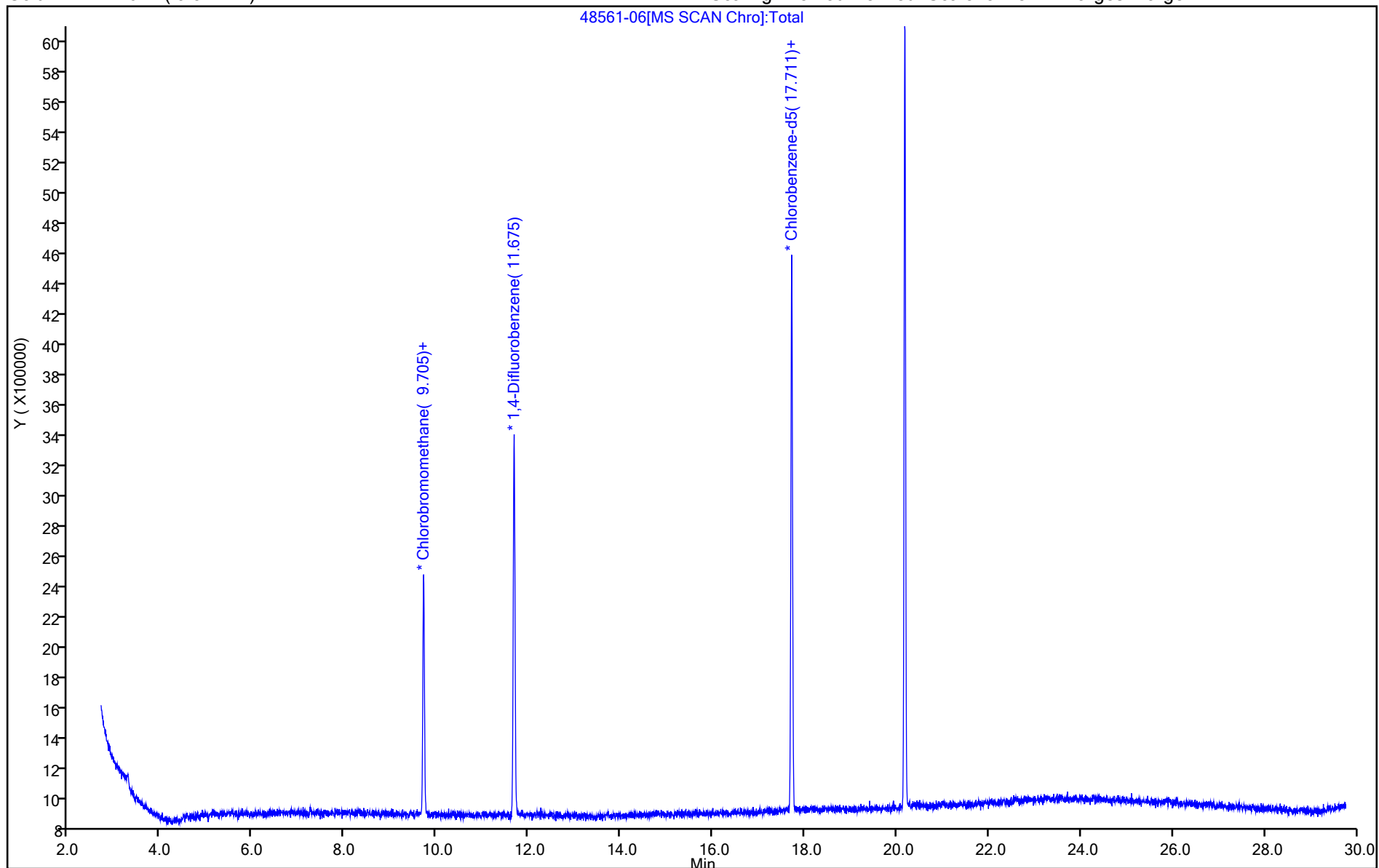
ALS Bottle#: 5

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

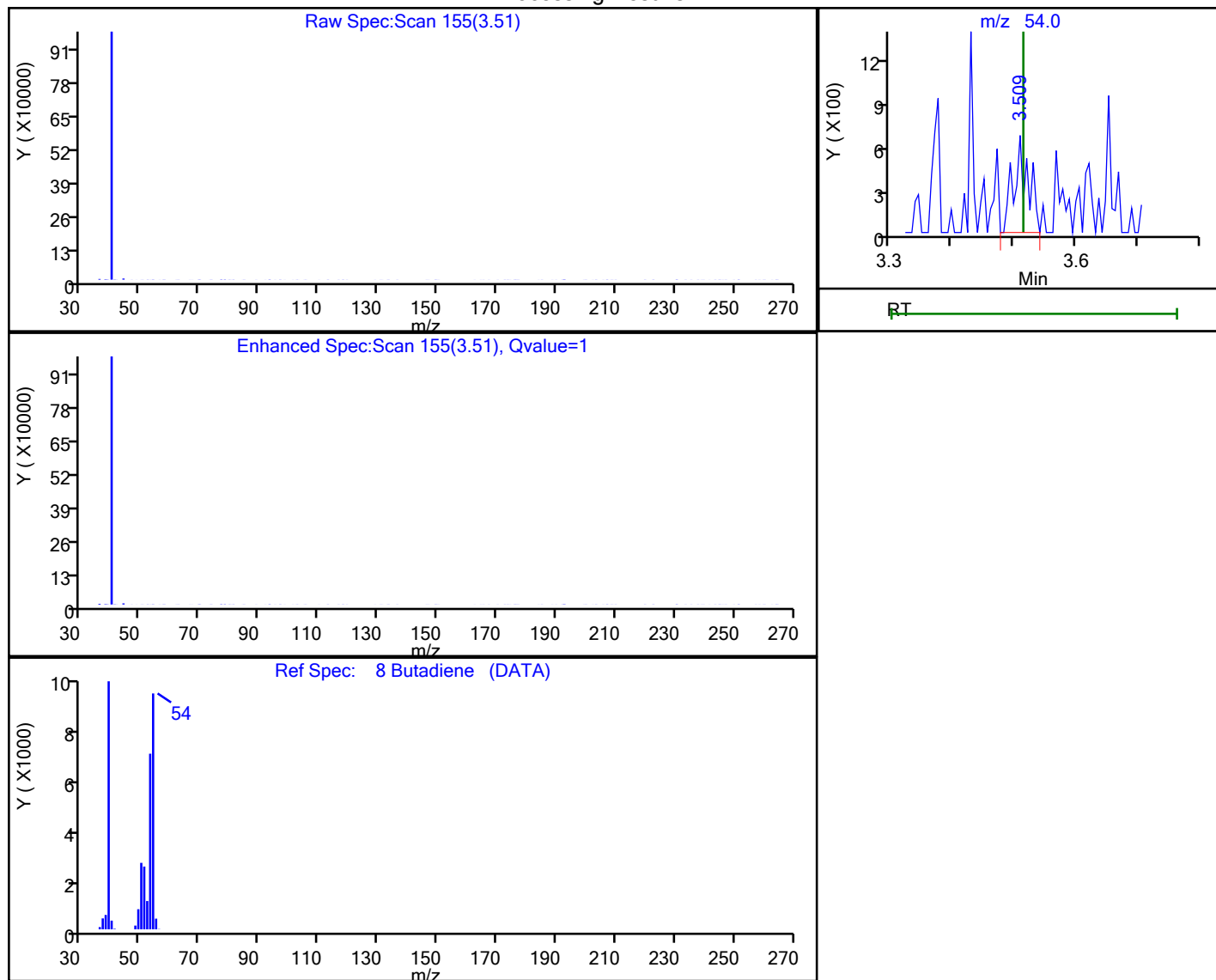


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20211126-48561.b\48561-06.D
 Injection Date: 26-Nov-2021 13:37:30 Instrument ID: CHC.i
 Lims ID: 200-61129-A-9 Lab Sample ID: 200-61129-9
 Client ID: 4963
 Operator ID: wrd ALS Bottle#: 5 Worklist Smp#: 6
 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

8 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
3.51	54.00	1091	0.027234

Reviewer: bunmaa, 29-Nov-2021 08:09:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61454-1
 SDG No.: _____
 Client Sample ID: 3589 Lab Sample ID: 200-61454-2
 Matrix: Air Lab File ID: 48904-006.d
 Analysis Method: TO-15 Date Collected: 12/17/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 12/20/2021 11:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175118 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
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61454-1
 SDG No.: _____
 Client Sample ID: 3589 Lab Sample ID: 200-61454-2
 Matrix: Air Lab File ID: 48904-006.d
 Analysis Method: TO-15 Date Collected: 12/17/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 12/20/2021 11:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175118 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-61454-1
 SDG No.: _____
 Client Sample ID: 3589 Lab Sample ID: 200-61454-2
 Matrix: Air Lab File ID: 48904-006.d
 Analysis Method: TO-15 Date Collected: 12/17/2021 00:00
 Sample wt/vol: 200 (mL) Date Analyzed: 12/20/2021 11:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175118 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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 TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d
 Lims ID: 200-61454-A-2
 Client ID: 3589
 Sample Type: Client
 Inject. Date: 20-Dec-2021 11:51:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0048904-006
 Misc. Info.: 61454-2
 Operator ID: vtp Instrument ID: CHW.i
 Method: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\TO15_TO3_MasterMethod_W.m
 Limit Group: AI_TO15_ICAL
 Last Update: 21-Dec-2021 08:00:35 Calib Date: 16-Dec-2021 10:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20211215-48848.b\48848-022.d
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1681

First Level Reviewer: bunmaa

Date: 21-Dec-2021 08:00:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.987				ND	U
2 Dichlorodifluoromethane	85	4.105	4.078	0.027	98	6850	0.1339	
3 Chlorodifluoromethane	51	4.153	4.117	0.032	95	3738	0.1219	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.442				ND	
5 Chloromethane	50	4.575	4.543	0.032	97	2739	0.1678	
6 Vinyl chloride	62		4.854				ND	
7 Butane	43	4.875	4.859	0.016	97	4976	0.1526	
8 Butadiene	54		4.971				ND	
9 Bromomethane	94		5.683				ND	
10 Chloroethane	64		5.961				ND	
13 Vinyl bromide	106		6.378				ND	
14 Trichlorofluoromethane	101	6.555	6.555	0.005	94	2498	0.0449	M
16 Ethanol	45	7.020	7.020	0.075	95	2135	0.1986	M
20 1,1-Dichloroethene	96		7.614				ND	
21 112TCTFE	101	7.657	7.650	0.000	92	1232	0.0260	
22 Acetone	43	7.753	7.710	0.043	97	43164	1.38	
24 Isopropyl alcohol	45		8.021				ND	7
23 Carbon disulfide	76	8.026	8.021	0.005	98	3797	0.0578	
26 3-Chloro-1-propene	41		8.320				ND	7
27 Methylene Chloride	49	8.550	8.545	0.005	92	1985	0.0863	
28 2-Methyl-2-propanol	59		8.796				ND	
30 trans-1,2-Dichloroethene	61		9.048				ND	
31 Methyl tert-butyl ether	73		9.075				ND	
32 Hexane	57	9.556	9.547	0.000	93	3189	0.0969	
33 1,1-Dichloroethane	63		9.813				ND	
34 Vinyl acetate	43		9.829				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
37 2-Butanone (MEK)	72	10.840	10.776	0.053	98	836	0.0738	
36 cis-1,2-Dichloroethene	96		10.803				ND	
38 Ethyl acetate	88		10.877				ND	
* 39 Chlorobromomethane	128	11.209	11.214	-0.005	94	140082	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Tetrahydrofuran	42		11.268				ND	
41 Chloroform	83		11.391				ND	
42 1,1,1-Trichloroethane	97		11.696				ND	
43 Cyclohexane	84		11.830				ND	
44 Carbon tetrachloride	117	11.969	11.969	-0.005	1	394	0.008210	
45 Benzene	78	12.311	12.317	-0.006	94	2376	0.0330	
46 1,2-Dichloroethane	62		12.397				ND	
47 Isooctane	57		12.541				ND	
48 n-Heptane	43		12.852				ND	U
* 49 1,4-Difluorobenzene	114	13.060	13.060	0.000	95	738863	10.0	
51 Trichloroethene	95		13.488				ND	
53 1,2-Dichloropropane	63		13.943				ND	
55 Methyl methacrylate	69	14.066	14.039	0.022	98	5467	0.2324	
57 1,4-Dioxane	88		14.093				ND	
56 Dibromomethane	174		14.103				ND	7
58 Dichlorobromomethane	83		14.414				ND	
60 cis-1,3-Dichloropropene	75		15.216				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.489				ND	
62 Toluene	92	15.858	15.858	0.000	93	816	0.0178	
64 trans-1,3-Dichloropropene	75		16.275				ND	
65 1,1,2-Trichloroethane	83		16.650				ND	
66 Tetrachloroethene	166		16.848				ND	
67 2-Hexanone	43		17.078				ND	7
68 Chlorodibromomethane	129		17.388				ND	
69 Ethylene Dibromide	107		17.623				ND	
* 70 Chlorobenzene-d5	117	18.533	18.533	0.000	87	563203	10.0	
72 Chlorobenzene	112		18.597				ND	
73 Ethylbenzene	91		18.790				ND	7
74 m-Xylene & p-Xylene	106		19.057				ND	7
76 o-Xylene	106		19.828				ND	
77 Styrene	104		19.865				ND	
S 78 Xylenes, Total	106		20.100				ND	7
79 Bromoform	173		20.218				ND	
80 Isopropylbenzene	105		20.550				ND	
81 1,1,2,2-Tetrachloroethane	83		21.085				ND	7
83 N-Propylbenzene	91		21.288				ND	7
84 2-Chlorotoluene	91		21.432				ND	7
85 4-Ethyltoluene	105		21.491				ND	7
86 1,3,5-Trimethylbenzene	105		21.588				ND	7
89 tert-Butylbenzene	119		22.080				ND	
90 1,2,4-Trimethylbenzene	105		22.165				ND	7
91 sec-Butylbenzene	105		22.411				ND	7
92 1,3-Dichlorobenzene	146	22.583	22.577	0.006	91	722	0.0147	
93 4-Isopropyltoluene	119		22.631				ND	7
94 1,4-Dichlorobenzene	146	22.722	22.722	0.000	92	756	0.0169	
95 Benzyl chloride	91	22.871	22.871	-0.001	93	1040	0.0191	M
96 n-Butylbenzene	91		23.182				ND	7
97 1,2-Dichlorobenzene	146	23.208	23.209	-0.001	92	1040	0.0211	
100 1,2,4-Trichlorobenzene	180	25.605	25.595	0.011	92	1541	0.0563	
101 Hexachlorobutadiene	225		25.835				ND	7
102 Naphthalene	128	26.060	26.055	0.005	99	5165	0.0826	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15WISs_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d

Injection Date: 20-Dec-2021 11:51:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-61454-A-2

Lab Sample ID: 200-61454-2

Worklist Smp#: 6

Client ID: 3589

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

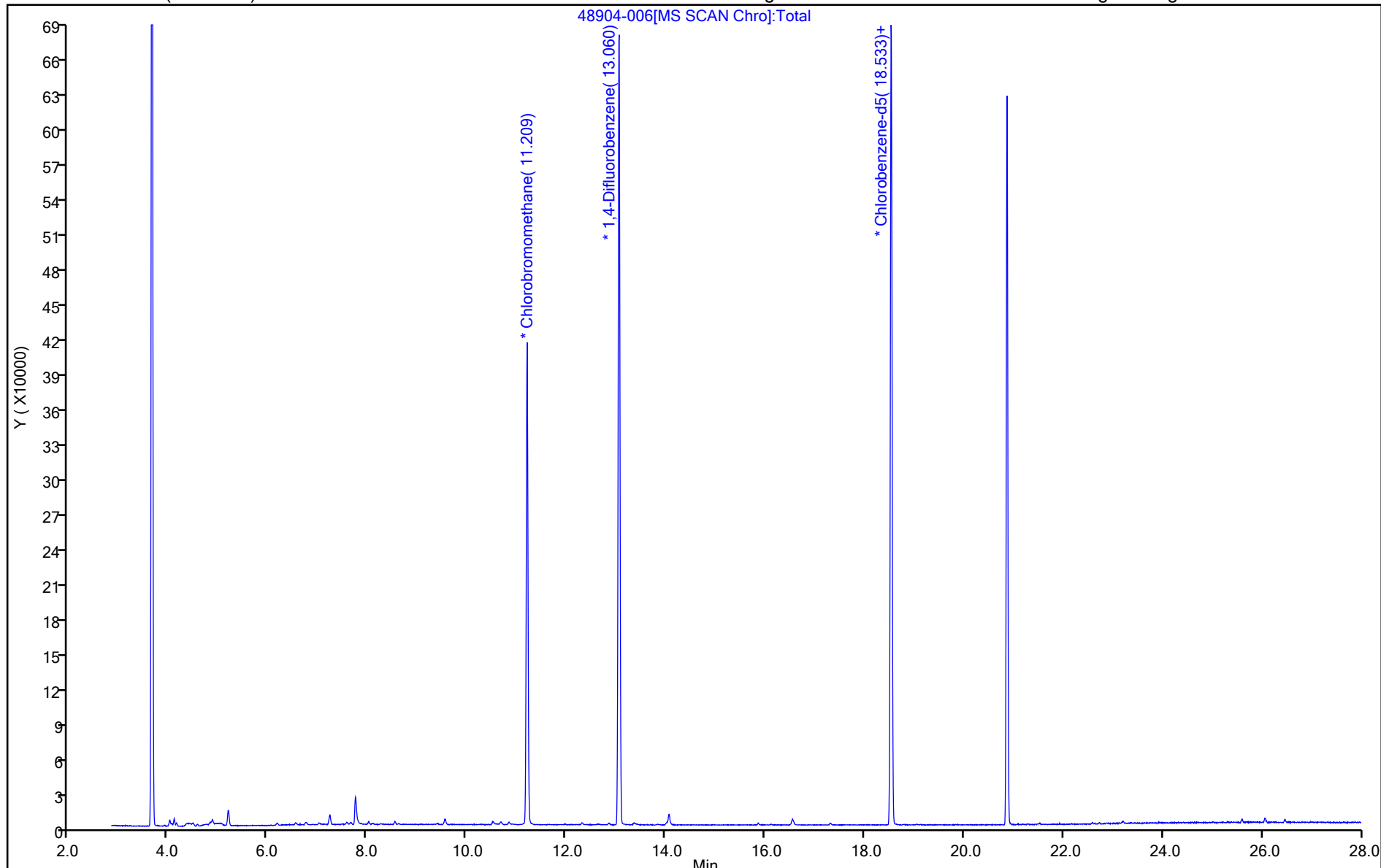
ALS Bottle#: 5

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

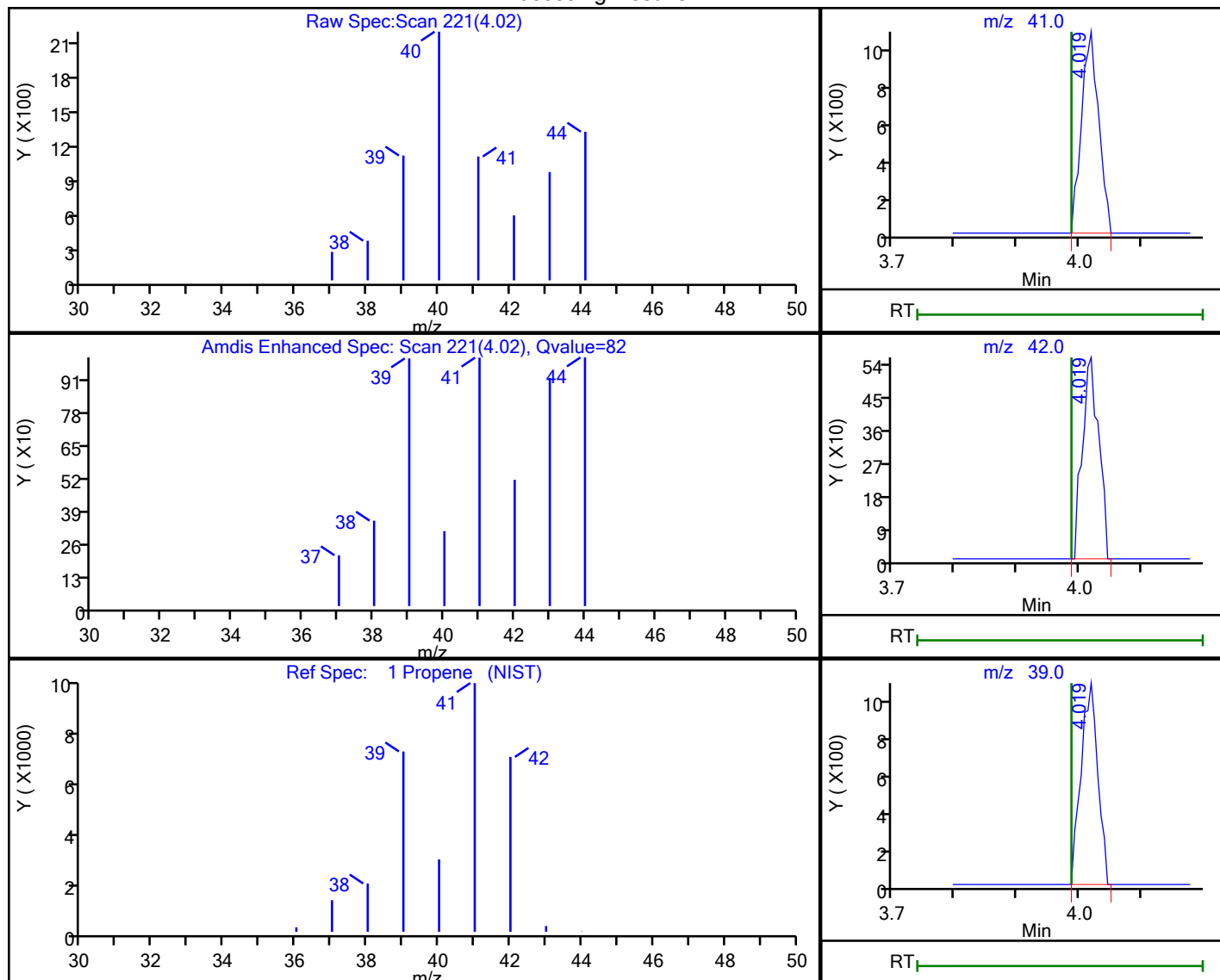


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d
 Injection Date: 20-Dec-2021 11:51:30 Instrument ID: CHW.i
 Lims ID: 200-61454-A-2 Lab Sample ID: 200-61454-2
 Client ID: 3589
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6
 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

1 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
4.02	41.00	2044	0.139666
4.02	42.00	1020	
4.02	39.00	2011	

Reviewer: bunmaa, 21-Dec-2021 07:55:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

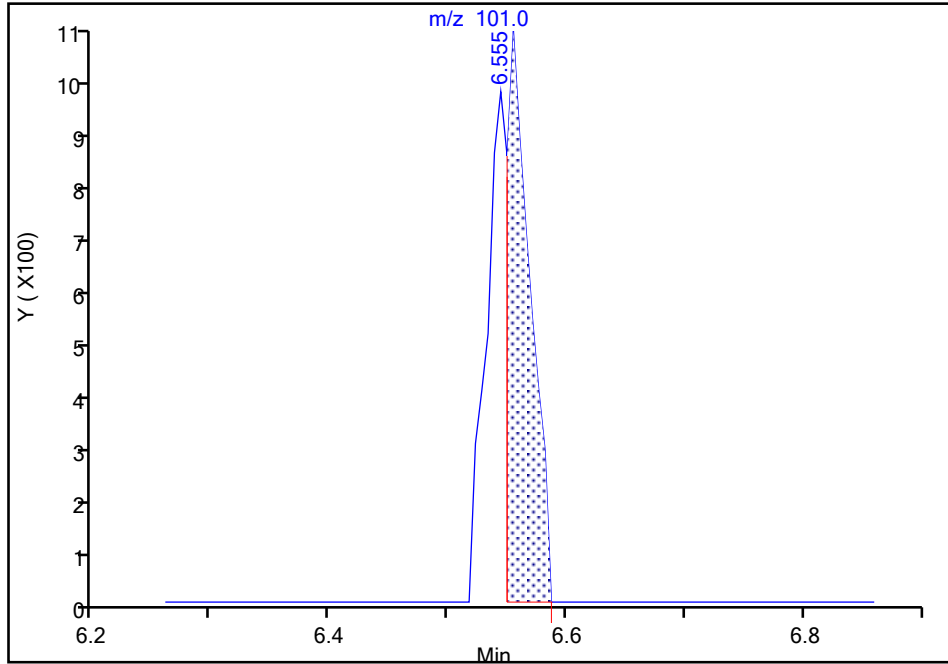
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d		
Injection Date:	20-Dec-2021 11:51:30	Instrument ID:	CHW.i
Lims ID:	200-61454-A-2	Lab Sample ID:	200-61454-2
Client ID:	3589		
Operator ID:	vtp	ALS Bottle#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN
		Worklist Smp#:	6

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

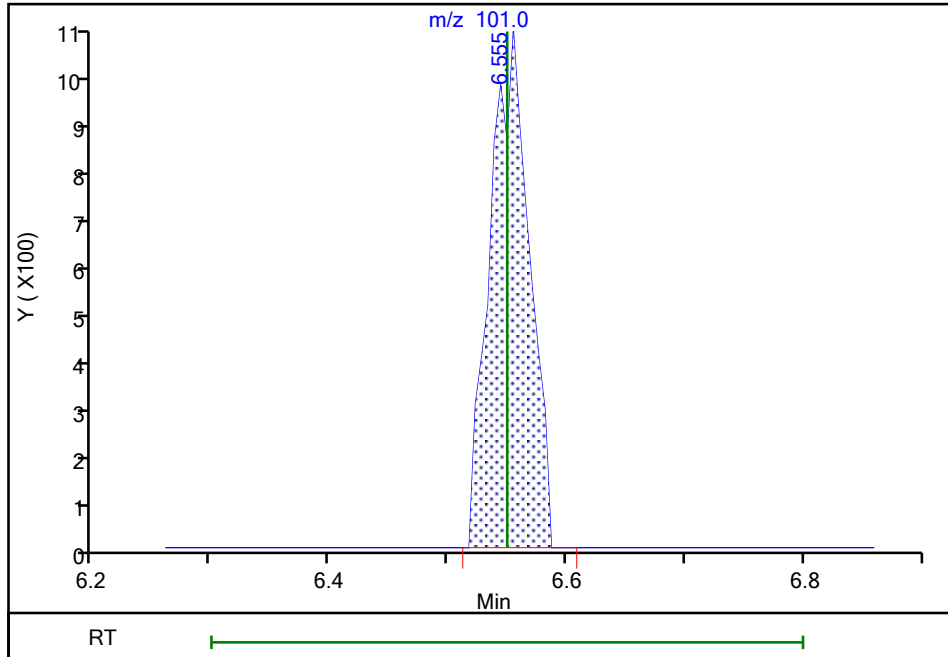
RT: 6.55
 Area: 1524
 Amount: 0.027408
 Amount Units: ppb v/v

Processing Integration Results



RT: 6.55
 Area: 2498
 Amount: 0.044925
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 21-Dec-2021 07:56:15

Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

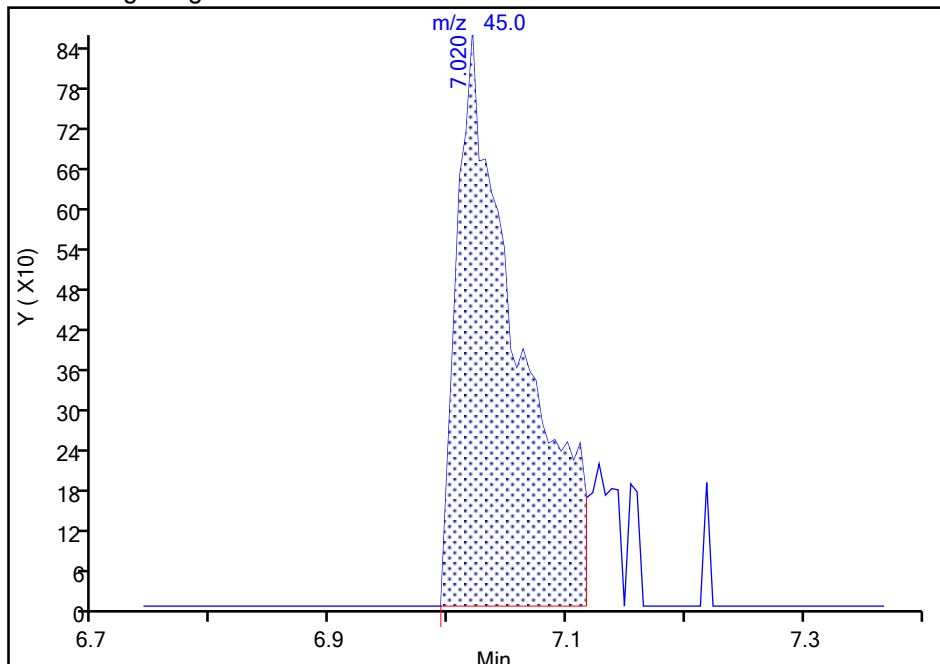
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d		
Injection Date:	20-Dec-2021 11:51:30	Instrument ID:	CHW.i
Lims ID:	200-61454-A-2	Lab Sample ID:	200-61454-2
Client ID:	3589		
Operator ID:	vtp	ALS Bottle#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN
		Worklist Smp#:	6

16 Ethanol, CAS: 64-17-5

Signal: 1

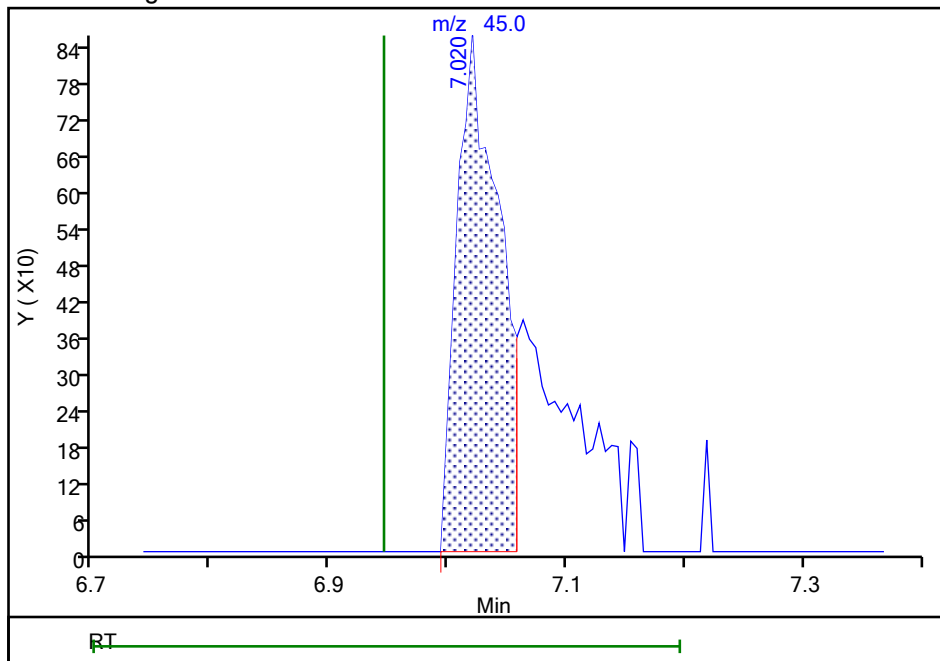
RT: 7.02
 Area: 3078
 Amount: 0.286316
 Amount Units: ppb v/v

Processing Integration Results



RT: 7.02
 Area: 2135
 Amount: 0.198598
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 21-Dec-2021 07:56:47
 Audit Action: Manually Integrated

Audit Reason: Assign Peak

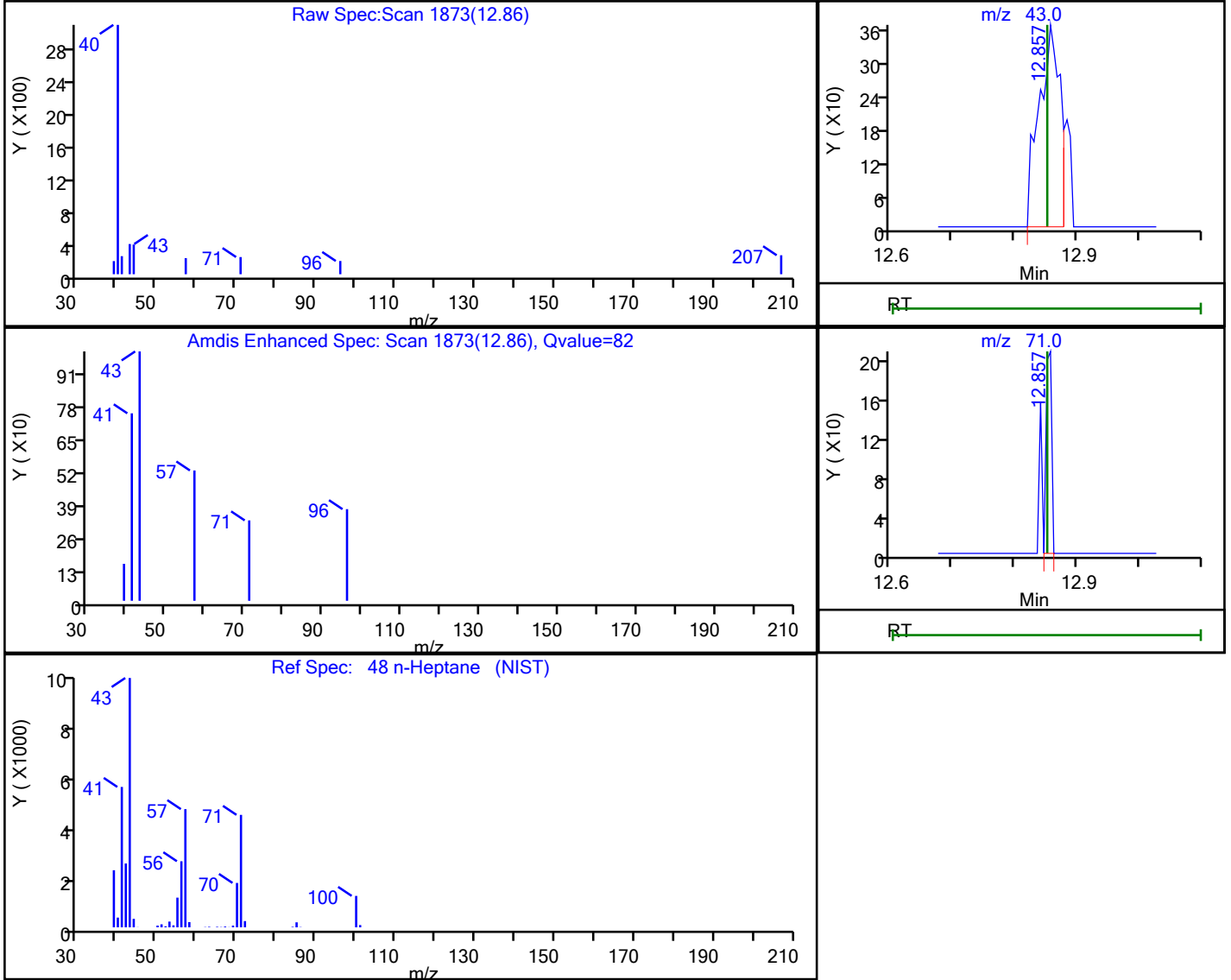


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d
 Injection Date: 20-Dec-2021 11:51:30 Instrument ID: CHW.i
 Lims ID: 200-61454-A-2 Lab Sample ID: 200-61454-2
 Client ID: 3589
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6
 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

48 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
12.86	43.00	870	0.022454
12.86	71.00	131	

Reviewer: bunmaa, 21-Dec-2021 07:58:06
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

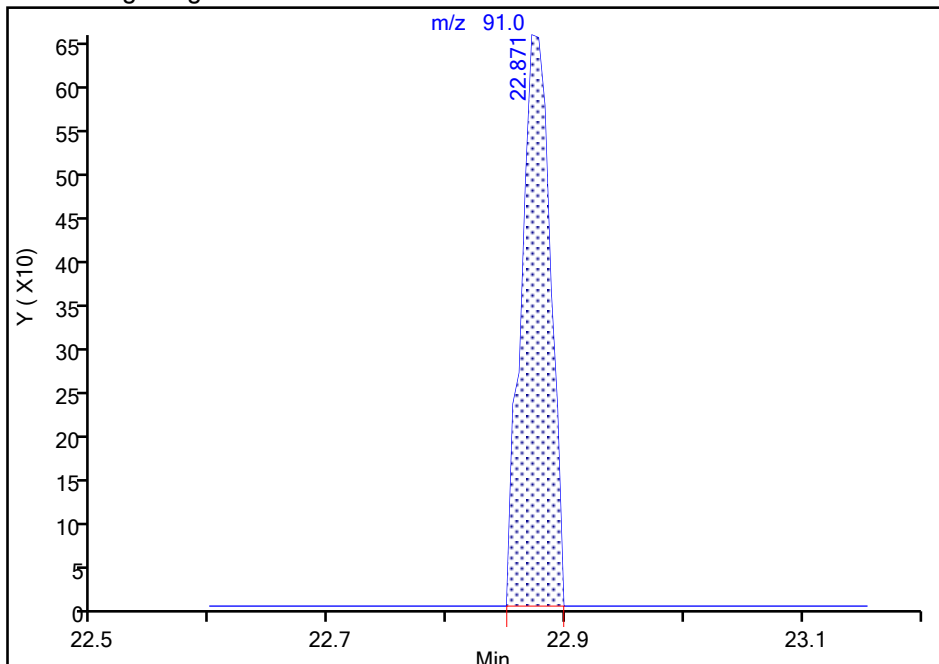
Data File: \\chromfs\Burlington\ChromData\CHW.i\20211220-48904.b\48904-006.d
Injection Date: 20-Dec-2021 11:51:30 Instrument ID: CHW.i
Lims ID: 200-61454-A-2 Lab Sample ID: 200-61454-2
Client ID: 3589
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_TO3_MasterMethod_W Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 Benzyl chloride, CAS: 100-44-7

Signal: 1

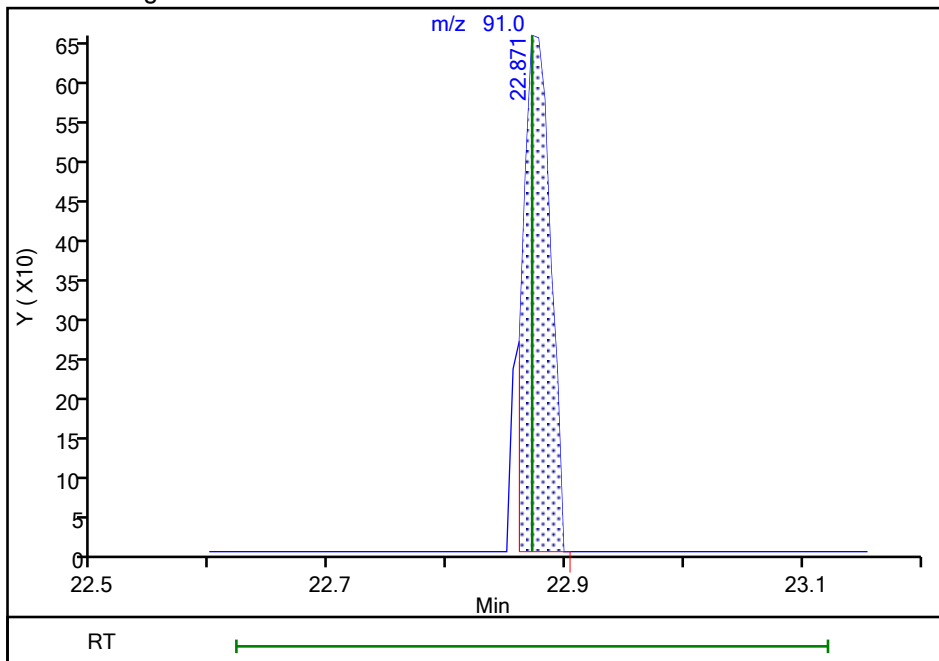
RT: 22.87
Area: 1115
Amount: 0.020501
Amount Units: ppb v/v

Processing Integration Results



RT: 22.87
Area: 1040
Amount: 0.019122
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 21-Dec-2021 07:59:55
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Summa Canister Dilution Worksheet

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

Job No.: 200-61618-1
 SDG No.: 200-61618-1

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 Initials
200-61618-1	1	-7.0	0.77	0.77	51.1	4.48	4.48		5.84	5.84	g21	01/05/22 14:53	VTP
200-61618-2	1	-8.3	0.72	0.72	44.7	4.04	4.04		5.59	5.59	g21	01/05/22 14:57	VTP
200-61618-3	1	-8.7	0.71	0.71	45.1	4.07	4.07		5.74	5.74	g21	01/05/22 15:01	VTP
200-61618-5	1	-4.3	0.86	0.86	45.5	4.10	4.10		4.78	4.78	g21	01/06/22 14:08	VTP

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 Reports and Sampling Logs



May 12, 2021

Service Request No:R2104168

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 30, 2021
For your reference, these analyses have been assigned our service request number **R2104168**.

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)
Project: Crosman
Sample Matrix: Water

Service Request: R2104168
Date Received: 04/30/2021

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 04/30/2021. 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, R2104168-002: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 05/11/2021: 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.

A handwritten signature in black ink, appearing to read "Samantha".

Approved by _____

Date 05/12/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: PW-1	Lab ID: R2104168-003
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	37			5.0	ug/L	8260C

CLIENT ID: MW-5	Lab ID: R2104168-006
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	6.7			5.0	ug/L	8260C
Trichloroethene	6.7			5.0	ug/L	8260C

CLIENT ID: MW-17	Lab ID: R2104168-009
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	350			13	ug/L	8260C

CLIENT ID: MW-3A	Lab ID: R2104168-010
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	200			10	ug/L	8260C

CLIENT ID: MW-20	Lab ID: R2104168-011
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	92			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)
Project: Crosman/3000.5202

Service Request:R2104168

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2104168-001	MW-15	4/30/2021	0850
R2104168-002	MW-4	4/30/2021	0910
R2104168-003	PW-1	4/30/2021	0935
R2104168-004	MW-19	4/30/2021	1000
R2104168-005	MW-18	4/30/2021	1020
R2104168-006	MW-5	4/30/2021	1040
R2104168-007	MW-14	4/30/2021	1100
R2104168-008	MW-13	4/30/2021	1115
R2104168-009	MW-17	4/30/2021	1130
R2104168-010	MW-3A	4/30/2021	1145
R2104168-011	MW-20	4/30/2021	1215
R2104168-012	Trip Blank	4/30/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004945

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name Crosman		Project Number 30005202		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																
Project Manager Aaron Richardson		Report CC		PRESERVATIVE 1																
Company/Address Arcadis		Phone #		NUMBER OF CONTAINERS GC/MS VOAs • 8260 • 824 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)																
100 Chestnut St, Suite 1020		Email																		
Rochester, NY 14604		Sampler's Signature <i>[Signature]</i>																		
Sampler's Printed Name Nicholas Beyle		Sampler's Printed Name Nicholas Beyle		Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX																
MW-15		4/30/21	0850	W	3	X														
MW-4			0910																	
PW-1			0935																	
MW-19			1000																	
MW-18			1020																	
MW-5			1040																	
MW-14			1100																	
MW-13			1115																	
MW-17			1130																	
MW-3A			1145																	
MW-20			1215			X														
SPECIAL INSTRUCTIONS/COMMENTS Metals					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ___ 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data				INVOICE INFORMATION PO # BILL TO:							
See QAPP <input type="checkbox"/>					REQUESTED REPORT DATE				Edata ___ Yes ___ No											
STATE WHERE SAMPLES WERE COLLECTED					RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY			
Signature <i>[Signature]</i>					Signature <i>[Signature]</i>				Signature				Signature				Signature			
Printed Name Nicholas Beyle					Printed Name EDWARD WAVE				Printed Name				Printed Name				Printed Name			
Firm Arcadis					Firm ALS				Firm				Firm				Firm			
Date/Time 4/30/21 1442					Date/Time 4/30/21 1442				Date/Time				Date/Time				Date/Time			

R2104168 **5**
 ARCADIS of New York, Inc.
 Crosman



Cooler Receipt and Preservation Check Form

R2104168 **5**
 ARCADIS of New York, Inc.
 Crossman

Project/Client Arcadis Folder Number _____

Cooler received on 4/30/21 by: du COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> N/A
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input checked="" type="checkbox"/> N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> N/A

8. Temperature Readings Date: 4/30/21 Time: 1455 ID: IR#7 IR#7 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>11.7</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> 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: Freez by du on 4/30/21 at 1455
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/1/21 Time: 1125 by: du

- 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
- 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?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<2		HNO ₃								
<2		H ₂ SO 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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**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: 2583
 Explain all Discrepancies/ Other Comments:

* 1 Vial, Trip Blank

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: du
 PC Secondary Review: VMAS/3/21 *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

- | | |
|---|---|
| <p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* 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.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|---|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

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.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202

Service Request: R2104168

Sample Name: MW-15
Lab Code: R2104168-001
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-4
Lab Code: R2104168-002
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: PW-1
Lab Code: R2104168-003
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-19
Lab Code: R2104168-004
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-18
Lab Code: R2104168-005
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202

Service Request: R2104168

Sample Name: MW-5
Lab Code: R2104168-006
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-14
Lab Code: R2104168-007
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-13
Lab Code: R2104168-008
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
NMANSEN

Sample Name: MW-17
Lab Code: R2104168-009
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
NMANSEN

Sample Name: MW-3A
Lab Code: R2104168-010
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202

Service Request: R2104168

Sample Name: MW-20
Lab Code: R2104168-011
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Trip Blank
Lab Code: R2104168-012
Sample Matrix: Water

Date Collected: 04/30/21
Date Received: 04/30/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

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
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Volatile Organic Compounds by GC/MS

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 08:50
Date Received: 04/30/21 14:42

Sample Name: MW-15
Lab Code: R2104168-001

Units: ug/L
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	05/11/21 00:06	
Benzene	ND U	5.0	1	05/11/21 00:06	
Bromodichloromethane	ND U	5.0	1	05/11/21 00:06	
Bromoform	ND U	5.0	1	05/11/21 00:06	
Bromomethane	ND U	5.0	1	05/11/21 00:06	
2-Butanone (MEK)	ND U	10	1	05/11/21 00:06	
Carbon Disulfide	ND U	10	1	05/11/21 00:06	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 00:06	
Chlorobenzene	ND U	5.0	1	05/11/21 00:06	
Chloroethane	ND U	5.0	1	05/11/21 00:06	
Chloroform	ND U	5.0	1	05/11/21 00:06	
Chloromethane	ND U	5.0	1	05/11/21 00:06	
Dibromochloromethane	ND U	5.0	1	05/11/21 00:06	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 00:06	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 00:06	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 00:06	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 00:06	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 00:06	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 00:06	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 00:06	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 00:06	
Ethylbenzene	ND U	5.0	1	05/11/21 00:06	
2-Hexanone	ND U	10	1	05/11/21 00:06	
Methylene Chloride	ND U	5.0	1	05/11/21 00:06	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 00:06	
Styrene	ND U	5.0	1	05/11/21 00:06	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 00:06	
Tetrachloroethene	ND U	5.0	1	05/11/21 00:06	
Toluene	ND U	5.0	1	05/11/21 00:06	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 00:06	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 00:06	
Trichloroethene	ND U	5.0	1	05/11/21 00:06	
Vinyl Chloride	ND U	5.0	1	05/11/21 00:06	
o-Xylene	ND U	5.0	1	05/11/21 00:06	
m,p-Xylenes	ND U	5.0	1	05/11/21 00:06	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-15
Lab Code: R2104168-001

Service Request: R2104168
Date Collected: 04/30/21 08:50
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 00:06	
Toluene-d8	108	87 - 121	05/11/21 00:06	
Dibromofluoromethane	105	80 - 116	05/11/21 00:06	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 09:10
Date Received: 04/30/21 14:42

Sample Name: MW-4
Lab Code: R2104168-002

Units: ug/L
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	100	10	05/11/21 00:28	
Benzene	ND U	50	10	05/11/21 00:28	
Bromodichloromethane	ND U	50	10	05/11/21 00:28	
Bromoform	ND U	50	10	05/11/21 00:28	
Bromomethane	ND U	50	10	05/11/21 00:28	
2-Butanone (MEK)	ND U	100	10	05/11/21 00:28	
Carbon Disulfide	ND U	100	10	05/11/21 00:28	
Carbon Tetrachloride	ND U	50	10	05/11/21 00:28	
Chlorobenzene	ND U	50	10	05/11/21 00:28	
Chloroethane	ND U	50	10	05/11/21 00:28	
Chloroform	ND U	50	10	05/11/21 00:28	
Chloromethane	ND U	50	10	05/11/21 00:28	
Dibromochloromethane	ND U	50	10	05/11/21 00:28	
1,1-Dichloroethane	ND U	50	10	05/11/21 00:28	
1,2-Dichloroethane	ND U	50	10	05/11/21 00:28	
1,1-Dichloroethene	ND U	50	10	05/11/21 00:28	
cis-1,2-Dichloroethene	ND U	50	10	05/11/21 00:28	
trans-1,2-Dichloroethene	ND U	50	10	05/11/21 00:28	
1,2-Dichloropropane	ND U	50	10	05/11/21 00:28	
cis-1,3-Dichloropropene	ND U	50	10	05/11/21 00:28	
trans-1,3-Dichloropropene	ND U	50	10	05/11/21 00:28	
Ethylbenzene	ND U	50	10	05/11/21 00:28	
2-Hexanone	ND U	100	10	05/11/21 00:28	
Methylene Chloride	ND U	50	10	05/11/21 00:28	
4-Methyl-2-pentanone (MIBK)	ND U	100	10	05/11/21 00:28	
Styrene	ND U	50	10	05/11/21 00:28	
1,1,2,2-Tetrachloroethane	ND U	50	10	05/11/21 00:28	
Tetrachloroethene	ND U	50	10	05/11/21 00:28	
Toluene	ND U	50	10	05/11/21 00:28	
1,1,1-Trichloroethane	ND U	50	10	05/11/21 00:28	
1,1,2-Trichloroethane	ND U	50	10	05/11/21 00:28	
Trichloroethene	ND U	50	10	05/11/21 00:28	
Vinyl Chloride	ND U	50	10	05/11/21 00:28	
o-Xylene	ND U	50	10	05/11/21 00:28	
m,p-Xylenes	ND U	50	10	05/11/21 00:28	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-4
Lab Code: R2104168-002

Service Request: R2104168
Date Collected: 04/30/21 09:10
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 00:28	
Toluene-d8	111	87 - 121	05/11/21 00:28	
Dibromofluoromethane	106	80 - 116	05/11/21 00:28	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 09:35
Date Received: 04/30/21 14:42

Sample Name: PW-1
Lab Code: R2104168-003

Units: ug/L
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	05/11/21 00:49	
Benzene	ND U	5.0	1	05/11/21 00:49	
Bromodichloromethane	ND U	5.0	1	05/11/21 00:49	
Bromoform	ND U	5.0	1	05/11/21 00:49	
Bromomethane	ND U	5.0	1	05/11/21 00:49	
2-Butanone (MEK)	ND U	10	1	05/11/21 00:49	
Carbon Disulfide	ND U	10	1	05/11/21 00:49	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 00:49	
Chlorobenzene	ND U	5.0	1	05/11/21 00:49	
Chloroethane	ND U	5.0	1	05/11/21 00:49	
Chloroform	ND U	5.0	1	05/11/21 00:49	
Chloromethane	ND U	5.0	1	05/11/21 00:49	
Dibromochloromethane	ND U	5.0	1	05/11/21 00:49	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 00:49	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 00:49	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 00:49	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 00:49	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 00:49	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 00:49	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 00:49	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 00:49	
Ethylbenzene	ND U	5.0	1	05/11/21 00:49	
2-Hexanone	ND U	10	1	05/11/21 00:49	
Methylene Chloride	ND U	5.0	1	05/11/21 00:49	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 00:49	
Styrene	ND U	5.0	1	05/11/21 00:49	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 00:49	
Tetrachloroethene	ND U	5.0	1	05/11/21 00:49	
Toluene	ND U	5.0	1	05/11/21 00:49	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 00:49	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 00:49	
Trichloroethene	37	5.0	1	05/11/21 00:49	
Vinyl Chloride	ND U	5.0	1	05/11/21 00:49	
o-Xylene	ND U	5.0	1	05/11/21 00:49	
m,p-Xylenes	ND U	5.0	1	05/11/21 00:49	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: PW-1
Lab Code: R2104168-003

Service Request: R2104168
Date Collected: 04/30/21 09:35
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 00:49	
Toluene-d8	108	87 - 121	05/11/21 00:49	
Dibromofluoromethane	105	80 - 116	05/11/21 00:49	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 10:00
Date Received: 04/30/21 14:42

Sample Name: MW-19
Lab Code: R2104168-004

Units: ug/L
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	05/11/21 01:11	
Benzene	ND U	5.0	1	05/11/21 01:11	
Bromodichloromethane	ND U	5.0	1	05/11/21 01:11	
Bromoform	ND U	5.0	1	05/11/21 01:11	
Bromomethane	ND U	5.0	1	05/11/21 01:11	
2-Butanone (MEK)	ND U	10	1	05/11/21 01:11	
Carbon Disulfide	ND U	10	1	05/11/21 01:11	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 01:11	
Chlorobenzene	ND U	5.0	1	05/11/21 01:11	
Chloroethane	ND U	5.0	1	05/11/21 01:11	
Chloroform	ND U	5.0	1	05/11/21 01:11	
Chloromethane	ND U	5.0	1	05/11/21 01:11	
Dibromochloromethane	ND U	5.0	1	05/11/21 01:11	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 01:11	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 01:11	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 01:11	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 01:11	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 01:11	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 01:11	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:11	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:11	
Ethylbenzene	ND U	5.0	1	05/11/21 01:11	
2-Hexanone	ND U	10	1	05/11/21 01:11	
Methylene Chloride	ND U	5.0	1	05/11/21 01:11	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 01:11	
Styrene	ND U	5.0	1	05/11/21 01:11	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 01:11	
Tetrachloroethene	ND U	5.0	1	05/11/21 01:11	
Toluene	ND U	5.0	1	05/11/21 01:11	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 01:11	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 01:11	
Trichloroethene	ND U	5.0	1	05/11/21 01:11	
Vinyl Chloride	ND U	5.0	1	05/11/21 01:11	
o-Xylene	ND U	5.0	1	05/11/21 01:11	
m,p-Xylenes	ND U	5.0	1	05/11/21 01:11	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-19
Lab Code: R2104168-004

Service Request: R2104168
Date Collected: 04/30/21 10:00
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 01:11	
Toluene-d8	108	87 - 121	05/11/21 01:11	
Dibromofluoromethane	104	80 - 116	05/11/21 01:11	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 10:20
Date Received: 04/30/21 14:42

Sample Name: MW-18
Lab Code: R2104168-005

Units: ug/L
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	05/11/21 01:33	
Benzene	ND U	5.0	1	05/11/21 01:33	
Bromodichloromethane	ND U	5.0	1	05/11/21 01:33	
Bromoform	ND U	5.0	1	05/11/21 01:33	
Bromomethane	ND U	5.0	1	05/11/21 01:33	
2-Butanone (MEK)	ND U	10	1	05/11/21 01:33	
Carbon Disulfide	ND U	10	1	05/11/21 01:33	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 01:33	
Chlorobenzene	ND U	5.0	1	05/11/21 01:33	
Chloroethane	ND U	5.0	1	05/11/21 01:33	
Chloroform	ND U	5.0	1	05/11/21 01:33	
Chloromethane	ND U	5.0	1	05/11/21 01:33	
Dibromochloromethane	ND U	5.0	1	05/11/21 01:33	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 01:33	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 01:33	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 01:33	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 01:33	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 01:33	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 01:33	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:33	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:33	
Ethylbenzene	ND U	5.0	1	05/11/21 01:33	
2-Hexanone	ND U	10	1	05/11/21 01:33	
Methylene Chloride	ND U	5.0	1	05/11/21 01:33	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 01:33	
Styrene	ND U	5.0	1	05/11/21 01:33	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 01:33	
Tetrachloroethene	ND U	5.0	1	05/11/21 01:33	
Toluene	ND U	5.0	1	05/11/21 01:33	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 01:33	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 01:33	
Trichloroethene	ND U	5.0	1	05/11/21 01:33	
Vinyl Chloride	ND U	5.0	1	05/11/21 01:33	
o-Xylene	ND U	5.0	1	05/11/21 01:33	
m,p-Xylenes	ND U	5.0	1	05/11/21 01:33	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-18
Lab Code: R2104168-005

Service Request: R2104168
Date Collected: 04/30/21 10:20
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 01:33	
Toluene-d8	107	87 - 121	05/11/21 01:33	
Dibromofluoromethane	103	80 - 116	05/11/21 01:33	

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dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 10:40
Date Received: 04/30/21 14:42

Sample Name: MW-5
Lab Code: R2104168-006

Units: ug/L
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	05/11/21 01:54	
Benzene	ND U	5.0	1	05/11/21 01:54	
Bromodichloromethane	ND U	5.0	1	05/11/21 01:54	
Bromoform	ND U	5.0	1	05/11/21 01:54	
Bromomethane	ND U	5.0	1	05/11/21 01:54	
2-Butanone (MEK)	ND U	10	1	05/11/21 01:54	
Carbon Disulfide	ND U	10	1	05/11/21 01:54	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 01:54	
Chlorobenzene	ND U	5.0	1	05/11/21 01:54	
Chloroethane	ND U	5.0	1	05/11/21 01:54	
Chloroform	ND U	5.0	1	05/11/21 01:54	
Chloromethane	ND U	5.0	1	05/11/21 01:54	
Dibromochloromethane	ND U	5.0	1	05/11/21 01:54	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 01:54	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 01:54	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 01:54	
cis-1,2-Dichloroethene	6.7	5.0	1	05/11/21 01:54	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 01:54	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 01:54	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:54	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 01:54	
Ethylbenzene	ND U	5.0	1	05/11/21 01:54	
2-Hexanone	ND U	10	1	05/11/21 01:54	
Methylene Chloride	ND U	5.0	1	05/11/21 01:54	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 01:54	
Styrene	ND U	5.0	1	05/11/21 01:54	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 01:54	
Tetrachloroethene	ND U	5.0	1	05/11/21 01:54	
Toluene	ND U	5.0	1	05/11/21 01:54	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 01:54	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 01:54	
Trichloroethene	6.7	5.0	1	05/11/21 01:54	
Vinyl Chloride	ND U	5.0	1	05/11/21 01:54	
o-Xylene	ND U	5.0	1	05/11/21 01:54	
m,p-Xylenes	ND U	5.0	1	05/11/21 01:54	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-5
Lab Code: R2104168-006

Service Request: R2104168
Date Collected: 04/30/21 10:40
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 01:54	
Toluene-d8	110	87 - 121	05/11/21 01:54	
Dibromofluoromethane	105	80 - 116	05/11/21 01:54	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 11:00
Date Received: 04/30/21 14:42

Sample Name: MW-14
Lab Code: R2104168-007

Units: ug/L
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	05/11/21 02:16	
Benzene	ND U	5.0	1	05/11/21 02:16	
Bromodichloromethane	ND U	5.0	1	05/11/21 02:16	
Bromoform	ND U	5.0	1	05/11/21 02:16	
Bromomethane	ND U	5.0	1	05/11/21 02:16	
2-Butanone (MEK)	ND U	10	1	05/11/21 02:16	
Carbon Disulfide	ND U	10	1	05/11/21 02:16	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 02:16	
Chlorobenzene	ND U	5.0	1	05/11/21 02:16	
Chloroethane	ND U	5.0	1	05/11/21 02:16	
Chloroform	ND U	5.0	1	05/11/21 02:16	
Chloromethane	ND U	5.0	1	05/11/21 02:16	
Dibromochloromethane	ND U	5.0	1	05/11/21 02:16	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 02:16	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 02:16	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 02:16	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 02:16	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 02:16	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 02:16	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 02:16	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 02:16	
Ethylbenzene	ND U	5.0	1	05/11/21 02:16	
2-Hexanone	ND U	10	1	05/11/21 02:16	
Methylene Chloride	ND U	5.0	1	05/11/21 02:16	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 02:16	
Styrene	ND U	5.0	1	05/11/21 02:16	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 02:16	
Tetrachloroethene	ND U	5.0	1	05/11/21 02:16	
Toluene	ND U	5.0	1	05/11/21 02:16	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 02:16	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 02:16	
Trichloroethene	ND U	5.0	1	05/11/21 02:16	
Vinyl Chloride	ND U	5.0	1	05/11/21 02:16	
o-Xylene	ND U	5.0	1	05/11/21 02:16	
m,p-Xylenes	ND U	5.0	1	05/11/21 02:16	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-14
Lab Code: R2104168-007

Service Request: R2104168
Date Collected: 04/30/21 11:00
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 02:16	
Toluene-d8	110	87 - 121	05/11/21 02:16	
Dibromofluoromethane	105	80 - 116	05/11/21 02:16	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 11:15
Date Received: 04/30/21 14:42

Sample Name: MW-13
Lab Code: R2104168-008

Units: ug/L
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	05/11/21 16:55	
Benzene	ND U	5.0	1	05/11/21 16:55	
Bromodichloromethane	ND U	5.0	1	05/11/21 16:55	
Bromoform	ND U	5.0	1	05/11/21 16:55	
Bromomethane	ND U	5.0	1	05/11/21 16:55	
2-Butanone (MEK)	ND U	10	1	05/11/21 16:55	
Carbon Disulfide	ND U	10	1	05/11/21 16:55	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 16:55	
Chlorobenzene	ND U	5.0	1	05/11/21 16:55	
Chloroethane	ND U	5.0	1	05/11/21 16:55	
Chloroform	ND U	5.0	1	05/11/21 16:55	
Chloromethane	ND U	5.0	1	05/11/21 16:55	
Dibromochloromethane	ND U	5.0	1	05/11/21 16:55	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 16:55	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 16:55	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 16:55	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 16:55	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 16:55	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 16:55	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 16:55	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 16:55	
Ethylbenzene	ND U	5.0	1	05/11/21 16:55	
2-Hexanone	ND U	10	1	05/11/21 16:55	
Methylene Chloride	ND U	5.0	1	05/11/21 16:55	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 16:55	
Styrene	ND U	5.0	1	05/11/21 16:55	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 16:55	
Tetrachloroethene	ND U	5.0	1	05/11/21 16:55	
Toluene	ND U	5.0	1	05/11/21 16:55	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 16:55	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 16:55	
Trichloroethene	ND U	5.0	1	05/11/21 16:55	
Vinyl Chloride	ND U	5.0	1	05/11/21 16:55	
o-Xylene	ND U	5.0	1	05/11/21 16:55	
m,p-Xylenes	ND U	5.0	1	05/11/21 16:55	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-13
Lab Code: R2104168-008

Service Request: R2104168
Date Collected: 04/30/21 11:15
Date Received: 04/30/21 14:42

Units: ug/L
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	93	85 - 122	05/11/21 16:55	
Toluene-d8	106	87 - 121	05/11/21 16:55	
Dibromofluoromethane	102	80 - 116	05/11/21 16:55	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-17
Lab Code: R2104168-009

Service Request: R2104168
Date Collected: 04/30/21 11:30
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 17:16	
Benzene	ND U	13	2.5	05/11/21 17:16	
Bromodichloromethane	ND U	13	2.5	05/11/21 17:16	
Bromoform	ND U	13	2.5	05/11/21 17:16	
Bromomethane	ND U	13	2.5	05/11/21 17:16	
2-Butanone (MEK)	ND U	25	2.5	05/11/21 17:16	
Carbon Disulfide	ND U	25	2.5	05/11/21 17:16	
Carbon Tetrachloride	ND U	13	2.5	05/11/21 17:16	
Chlorobenzene	ND U	13	2.5	05/11/21 17:16	
Chloroethane	ND U	13	2.5	05/11/21 17:16	
Chloroform	ND U	13	2.5	05/11/21 17:16	
Chloromethane	ND U	13	2.5	05/11/21 17:16	
Dibromochloromethane	ND U	13	2.5	05/11/21 17:16	
1,1-Dichloroethane	ND U	13	2.5	05/11/21 17:16	
1,2-Dichloroethane	ND U	13	2.5	05/11/21 17:16	
1,1-Dichloroethene	ND U	13	2.5	05/11/21 17:16	
cis-1,2-Dichloroethene	ND U	13	2.5	05/11/21 17:16	
trans-1,2-Dichloroethene	ND U	13	2.5	05/11/21 17:16	
1,2-Dichloropropane	ND U	13	2.5	05/11/21 17:16	
cis-1,3-Dichloropropene	ND U	13	2.5	05/11/21 17:16	
trans-1,3-Dichloropropene	ND U	13	2.5	05/11/21 17:16	
Ethylbenzene	ND U	13	2.5	05/11/21 17:16	
2-Hexanone	ND U	25	2.5	05/11/21 17:16	
Methylene Chloride	ND U	13	2.5	05/11/21 17:16	
4-Methyl-2-pentanone (MIBK)	ND U	25	2.5	05/11/21 17:16	
Styrene	ND U	13	2.5	05/11/21 17:16	
1,1,2,2-Tetrachloroethane	ND U	13	2.5	05/11/21 17:16	
Tetrachloroethene	ND U	13	2.5	05/11/21 17:16	
Toluene	ND U	13	2.5	05/11/21 17:16	
1,1,1-Trichloroethane	ND U	13	2.5	05/11/21 17:16	
1,1,2-Trichloroethane	ND U	13	2.5	05/11/21 17:16	
Trichloroethene	350	13	2.5	05/11/21 17:16	
Vinyl Chloride	ND U	13	2.5	05/11/21 17:16	
o-Xylene	ND U	13	2.5	05/11/21 17:16	
m,p-Xylenes	ND U	13	2.5	05/11/21 17:16	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-17
Lab Code: R2104168-009

Service Request: R2104168
Date Collected: 04/30/21 11:30
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 17:16	
Toluene-d8	108	87 - 121	05/11/21 17:16	
Dibromofluoromethane	103	80 - 116	05/11/21 17:16	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 11:45
Date Received: 04/30/21 14:42

Sample Name: MW-3A
Lab Code: R2104168-010

Units: ug/L
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	05/11/21 02:59	
Benzene	ND U	10	2	05/11/21 02:59	
Bromodichloromethane	ND U	10	2	05/11/21 02:59	
Bromoform	ND U	10	2	05/11/21 02:59	
Bromomethane	ND U	10	2	05/11/21 02:59	
2-Butanone (MEK)	ND U	20	2	05/11/21 02:59	
Carbon Disulfide	ND U	20	2	05/11/21 02:59	
Carbon Tetrachloride	ND U	10	2	05/11/21 02:59	
Chlorobenzene	ND U	10	2	05/11/21 02:59	
Chloroethane	ND U	10	2	05/11/21 02:59	
Chloroform	ND U	10	2	05/11/21 02:59	
Chloromethane	ND U	10	2	05/11/21 02:59	
Dibromochloromethane	ND U	10	2	05/11/21 02:59	
1,1-Dichloroethane	ND U	10	2	05/11/21 02:59	
1,2-Dichloroethane	ND U	10	2	05/11/21 02:59	
1,1-Dichloroethene	ND U	10	2	05/11/21 02:59	
cis-1,2-Dichloroethene	ND U	10	2	05/11/21 02:59	
trans-1,2-Dichloroethene	ND U	10	2	05/11/21 02:59	
1,2-Dichloropropane	ND U	10	2	05/11/21 02:59	
cis-1,3-Dichloropropene	ND U	10	2	05/11/21 02:59	
trans-1,3-Dichloropropene	ND U	10	2	05/11/21 02:59	
Ethylbenzene	ND U	10	2	05/11/21 02:59	
2-Hexanone	ND U	20	2	05/11/21 02:59	
Methylene Chloride	ND U	10	2	05/11/21 02:59	
4-Methyl-2-pentanone (MIBK)	ND U	20	2	05/11/21 02:59	
Styrene	ND U	10	2	05/11/21 02:59	
1,1,2,2-Tetrachloroethane	ND U	10	2	05/11/21 02:59	
Tetrachloroethene	ND U	10	2	05/11/21 02:59	
Toluene	ND U	10	2	05/11/21 02:59	
1,1,1-Trichloroethane	ND U	10	2	05/11/21 02:59	
1,1,2-Trichloroethane	ND U	10	2	05/11/21 02:59	
Trichloroethene	200	10	2	05/11/21 02:59	
Vinyl Chloride	ND U	10	2	05/11/21 02:59	
o-Xylene	ND U	10	2	05/11/21 02:59	
m,p-Xylenes	ND U	10	2	05/11/21 02:59	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: R2104168-010

Service Request: R2104168
Date Collected: 04/30/21 11:45
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 02:59	
Toluene-d8	105	87 - 121	05/11/21 02:59	
Dibromofluoromethane	102	80 - 116	05/11/21 02:59	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21 12:15
Date Received: 04/30/21 14:42

Sample Name: MW-20
Lab Code: R2104168-011

Units: ug/L
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	05/11/21 02:37	
Benzene	ND U	5.0	1	05/11/21 02:37	
Bromodichloromethane	ND U	5.0	1	05/11/21 02:37	
Bromoform	ND U	5.0	1	05/11/21 02:37	
Bromomethane	ND U	5.0	1	05/11/21 02:37	
2-Butanone (MEK)	ND U	10	1	05/11/21 02:37	
Carbon Disulfide	ND U	10	1	05/11/21 02:37	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 02:37	
Chlorobenzene	ND U	5.0	1	05/11/21 02:37	
Chloroethane	ND U	5.0	1	05/11/21 02:37	
Chloroform	ND U	5.0	1	05/11/21 02:37	
Chloromethane	ND U	5.0	1	05/11/21 02:37	
Dibromochloromethane	ND U	5.0	1	05/11/21 02:37	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 02:37	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 02:37	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 02:37	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 02:37	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 02:37	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 02:37	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 02:37	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 02:37	
Ethylbenzene	ND U	5.0	1	05/11/21 02:37	
2-Hexanone	ND U	10	1	05/11/21 02:37	
Methylene Chloride	ND U	5.0	1	05/11/21 02:37	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 02:37	
Styrene	ND U	5.0	1	05/11/21 02:37	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 02:37	
Tetrachloroethene	ND U	5.0	1	05/11/21 02:37	
Toluene	ND U	5.0	1	05/11/21 02:37	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 02:37	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 02:37	
Trichloroethene	92	5.0	1	05/11/21 02:37	
Vinyl Chloride	ND U	5.0	1	05/11/21 02:37	
o-Xylene	ND U	5.0	1	05/11/21 02:37	
m,p-Xylenes	ND U	5.0	1	05/11/21 02:37	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: MW-20
Lab Code: R2104168-011

Service Request: R2104168
Date Collected: 04/30/21 12:15
Date Received: 04/30/21 14:42

Units: ug/L
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	05/11/21 02:37	
Toluene-d8	106	87 - 121	05/11/21 02:37	
Dibromofluoromethane	104	80 - 116	05/11/21 02:37	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Collected: 04/30/21
Date Received: 04/30/21 14:42

Sample Name: Trip Blank
Lab Code: R2104168-012

Units: ug/L
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	05/10/21 23:45	
Benzene	ND U	5.0	1	05/10/21 23:45	
Bromodichloromethane	ND U	5.0	1	05/10/21 23:45	
Bromoform	ND U	5.0	1	05/10/21 23:45	
Bromomethane	ND U	5.0	1	05/10/21 23:45	
2-Butanone (MEK)	ND U	10	1	05/10/21 23:45	
Carbon Disulfide	ND U	10	1	05/10/21 23:45	
Carbon Tetrachloride	ND U	5.0	1	05/10/21 23:45	
Chlorobenzene	ND U	5.0	1	05/10/21 23:45	
Chloroethane	ND U	5.0	1	05/10/21 23:45	
Chloroform	ND U	5.0	1	05/10/21 23:45	
Chloromethane	ND U	5.0	1	05/10/21 23:45	
Dibromochloromethane	ND U	5.0	1	05/10/21 23:45	
1,1-Dichloroethane	ND U	5.0	1	05/10/21 23:45	
1,2-Dichloroethane	ND U	5.0	1	05/10/21 23:45	
1,1-Dichloroethene	ND U	5.0	1	05/10/21 23:45	
cis-1,2-Dichloroethene	ND U	5.0	1	05/10/21 23:45	
trans-1,2-Dichloroethene	ND U	5.0	1	05/10/21 23:45	
1,2-Dichloropropane	ND U	5.0	1	05/10/21 23:45	
cis-1,3-Dichloropropene	ND U	5.0	1	05/10/21 23:45	
trans-1,3-Dichloropropene	ND U	5.0	1	05/10/21 23:45	
Ethylbenzene	ND U	5.0	1	05/10/21 23:45	
2-Hexanone	ND U	10	1	05/10/21 23:45	
Methylene Chloride	ND U	5.0	1	05/10/21 23:45	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/10/21 23:45	
Styrene	ND U	5.0	1	05/10/21 23:45	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/10/21 23:45	
Tetrachloroethene	ND U	5.0	1	05/10/21 23:45	
Toluene	ND U	5.0	1	05/10/21 23:45	
1,1,1-Trichloroethane	ND U	5.0	1	05/10/21 23:45	
1,1,2-Trichloroethane	ND U	5.0	1	05/10/21 23:45	
Trichloroethene	ND U	5.0	1	05/10/21 23:45	
Vinyl Chloride	ND U	5.0	1	05/10/21 23:45	
o-Xylene	ND U	5.0	1	05/10/21 23:45	
m,p-Xylenes	ND U	5.0	1	05/10/21 23:45	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R2104168-012

Service Request: R2104168
Date Collected: 04/30/21
Date Received: 04/30/21 14:42

Units: ug/L
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	05/10/21 23:45	
Toluene-d8	107	87 - 121	05/10/21 23:45	
Dibromofluoromethane	106	80 - 116	05/10/21 23:45	



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

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QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	80-116
MW-15	R2104168-001	100	108	105
MW-4	R2104168-002	102	111	106
PW-1	R2104168-003	97	108	105
MW-19	R2104168-004	97	108	104
MW-18	R2104168-005	96	107	103
MW-5	R2104168-006	102	110	105
MW-14	R2104168-007	98	110	105
MW-13	R2104168-008	93	106	102
MW-17	R2104168-009	100	108	103
MW-3A	R2104168-010	94	105	102
MW-20	R2104168-011	94	106	104
Trip Blank	R2104168-012	97	107	106
Method Blank	RQ2105195-04	91	105	101
Method Blank	RQ2105220-06	100	107	104
Lab Control Sample	RQ2105195-03	107	108	110
Lab Control Sample	RQ2105220-05	105	109	111

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2105195-04

Service Request: R2104168
Date Collected: NA
Date Received: NA
Units: ug/L
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	05/10/21 20:53	
Benzene	ND U	5.0	1	05/10/21 20:53	
Bromodichloromethane	ND U	5.0	1	05/10/21 20:53	
Bromoform	ND U	5.0	1	05/10/21 20:53	
Bromomethane	ND U	5.0	1	05/10/21 20:53	
2-Butanone (MEK)	ND U	10	1	05/10/21 20:53	
Carbon Disulfide	ND U	10	1	05/10/21 20:53	
Carbon Tetrachloride	ND U	5.0	1	05/10/21 20:53	
Chlorobenzene	ND U	5.0	1	05/10/21 20:53	
Chloroethane	ND U	5.0	1	05/10/21 20:53	
Chloroform	ND U	5.0	1	05/10/21 20:53	
Chloromethane	ND U	5.0	1	05/10/21 20:53	
Dibromochloromethane	ND U	5.0	1	05/10/21 20:53	
1,1-Dichloroethane	ND U	5.0	1	05/10/21 20:53	
1,2-Dichloroethane	ND U	5.0	1	05/10/21 20:53	
1,1-Dichloroethene	ND U	5.0	1	05/10/21 20:53	
cis-1,2-Dichloroethene	ND U	5.0	1	05/10/21 20:53	
trans-1,2-Dichloroethene	ND U	5.0	1	05/10/21 20:53	
1,2-Dichloropropane	ND U	5.0	1	05/10/21 20:53	
cis-1,3-Dichloropropene	ND U	5.0	1	05/10/21 20:53	
trans-1,3-Dichloropropene	ND U	5.0	1	05/10/21 20:53	
Ethylbenzene	ND U	5.0	1	05/10/21 20:53	
2-Hexanone	ND U	10	1	05/10/21 20:53	
Methylene Chloride	ND U	5.0	1	05/10/21 20:53	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/10/21 20:53	
Styrene	ND U	5.0	1	05/10/21 20:53	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/10/21 20:53	
Tetrachloroethene	ND U	5.0	1	05/10/21 20:53	
Toluene	ND U	5.0	1	05/10/21 20:53	
1,1,1-Trichloroethane	ND U	5.0	1	05/10/21 20:53	
1,1,2-Trichloroethane	ND U	5.0	1	05/10/21 20:53	
Trichloroethene	ND U	5.0	1	05/10/21 20:53	
Vinyl Chloride	ND U	5.0	1	05/10/21 20:53	
o-Xylene	ND U	5.0	1	05/10/21 20:53	
m,p-Xylenes	ND U	5.0	1	05/10/21 20:53	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2105195-04

Service Request: R2104168
Date Collected: NA
Date Received: NA
Units: ug/L
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	05/10/21 20:53	
Toluene-d8	105	87 - 121	05/10/21 20:53	
Dibromofluoromethane	101	80 - 116	05/10/21 20:53	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2105220-06

Service Request: R2104168
Date Collected: NA
Date Received: NA
Units: ug/L
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	05/11/21 11:53	
Benzene	ND U	5.0	1	05/11/21 11:53	
Bromodichloromethane	ND U	5.0	1	05/11/21 11:53	
Bromoform	ND U	5.0	1	05/11/21 11:53	
Bromomethane	ND U	5.0	1	05/11/21 11:53	
2-Butanone (MEK)	ND U	10	1	05/11/21 11:53	
Carbon Disulfide	ND U	10	1	05/11/21 11:53	
Carbon Tetrachloride	ND U	5.0	1	05/11/21 11:53	
Chlorobenzene	ND U	5.0	1	05/11/21 11:53	
Chloroethane	ND U	5.0	1	05/11/21 11:53	
Chloroform	ND U	5.0	1	05/11/21 11:53	
Chloromethane	ND U	5.0	1	05/11/21 11:53	
Dibromochloromethane	ND U	5.0	1	05/11/21 11:53	
1,1-Dichloroethane	ND U	5.0	1	05/11/21 11:53	
1,2-Dichloroethane	ND U	5.0	1	05/11/21 11:53	
1,1-Dichloroethene	ND U	5.0	1	05/11/21 11:53	
cis-1,2-Dichloroethene	ND U	5.0	1	05/11/21 11:53	
trans-1,2-Dichloroethene	ND U	5.0	1	05/11/21 11:53	
1,2-Dichloropropane	ND U	5.0	1	05/11/21 11:53	
cis-1,3-Dichloropropene	ND U	5.0	1	05/11/21 11:53	
trans-1,3-Dichloropropene	ND U	5.0	1	05/11/21 11:53	
Ethylbenzene	ND U	5.0	1	05/11/21 11:53	
2-Hexanone	ND U	10	1	05/11/21 11:53	
Methylene Chloride	ND U	5.0	1	05/11/21 11:53	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	05/11/21 11:53	
Styrene	ND U	5.0	1	05/11/21 11:53	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	05/11/21 11:53	
Tetrachloroethene	ND U	5.0	1	05/11/21 11:53	
Toluene	ND U	5.0	1	05/11/21 11:53	
1,1,1-Trichloroethane	ND U	5.0	1	05/11/21 11:53	
1,1,2-Trichloroethane	ND U	5.0	1	05/11/21 11:53	
Trichloroethene	ND U	5.0	1	05/11/21 11:53	
Vinyl Chloride	ND U	5.0	1	05/11/21 11:53	
o-Xylene	ND U	5.0	1	05/11/21 11:53	
m,p-Xylenes	ND U	5.0	1	05/11/21 11:53	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2105220-06

Service Request: R2104168
Date Collected: NA
Date Received: NA
Units: ug/L
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	05/11/21 11:53	
Toluene-d8	107	87 - 121	05/11/21 11:53	
Dibromofluoromethane	104	80 - 116	05/11/21 11:53	

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QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Analyzed: 05/10/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2105195-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	19.4	20.0	97	40-161
Benzene	8260C	19.3	20.0	97	79-119
Bromodichloromethane	8260C	19.7	20.0	99	81-123
Bromoform	8260C	19.1	20.0	96	65-146
Bromomethane	8260C	19.1	20.0	95	42-166
2-Butanone (MEK)	8260C	19.0	20.0	95	61-137
Carbon Disulfide	8260C	19.7	20.0	99	66-128
Carbon Tetrachloride	8260C	17.9	20.0	89	70-127
Chlorobenzene	8260C	19.4	20.0	97	80-121
Chloroethane	8260C	19.9	20.0	100	62-131
Chloroform	8260C	21.2	20.0	106	79-120
Chloromethane	8260C	21.7	20.0	109	65-135
Dibromochloromethane	8260C	19.1	20.0	95	72-128
1,1-Dichloroethane	8260C	20.0	20.0	100	80-124
1,2-Dichloroethane	8260C	20.5	20.0	102	71-127
1,1-Dichloroethene	8260C	23.5	20.0	117	71-118
cis-1,2-Dichloroethene	8260C	21.4	20.0	107	80-121
trans-1,2-Dichloroethene	8260C	22.1	20.0	111	73-118
1,2-Dichloropropane	8260C	19.4	20.0	97	80-119
cis-1,3-Dichloropropene	8260C	21.1	20.0	106	77-122
trans-1,3-Dichloropropene	8260C	20.4	20.0	102	71-133
Ethylbenzene	8260C	18.1	20.0	91	76-120
2-Hexanone	8260C	18.9	20.0	94	63-124
Methylene Chloride	8260C	19.5	20.0	98	73-122
4-Methyl-2-pentanone (MIBK)	8260C	19.4	20.0	97	66-124
Styrene	8260C	20.2	20.0	101	80-124
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-126
Tetrachloroethene	8260C	19.5	20.0	97	72-125
Toluene	8260C	20.3	20.0	101	79-119
1,1,1-Trichloroethane	8260C	19.6	20.0	98	75-125
1,1,2-Trichloroethane	8260C	20.0	20.0	100	82-121
Trichloroethene	8260C	18.9	20.0	95	74-122
Vinyl Chloride	8260C	19.5	20.0	97	74-159

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QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Analyzed: 05/10/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2105195-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	19.5	20.0	98	79-123
m,p-Xylenes	8260C	38.6	40.0	97	80-126

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Analyzed: 05/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2105220-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	18.8	20.0	94	40-161
Benzene	8260C	19.9	20.0	100	79-119
Bromodichloromethane	8260C	20.1	20.0	101	81-123
Bromoform	8260C	18.7	20.0	93	65-146
Bromomethane	8260C	19.7	20.0	99	42-166
2-Butanone (MEK)	8260C	18.1	20.0	91	61-137
Carbon Disulfide	8260C	21.8	20.0	109	66-128
Carbon Tetrachloride	8260C	19.2	20.0	96	70-127
Chlorobenzene	8260C	19.6	20.0	98	80-121
Chloroethane	8260C	21.0	20.0	105	62-131
Chloroform	8260C	21.4	20.0	107	79-120
Chloromethane	8260C	22.4	20.0	112	65-135
Dibromochloromethane	8260C	19.3	20.0	97	72-128
1,1-Dichloroethane	8260C	21.0	20.0	105	80-124
1,2-Dichloroethane	8260C	20.3	20.0	101	71-127
1,1-Dichloroethene	8260C	25.0	20.0	125 *	71-118
cis-1,2-Dichloroethene	8260C	21.9	20.0	110	80-121
trans-1,2-Dichloroethene	8260C	23.2	20.0	116	73-118
1,2-Dichloropropane	8260C	20.0	20.0	100	80-119
cis-1,3-Dichloropropene	8260C	21.8	20.0	109	77-122
trans-1,3-Dichloropropene	8260C	21.1	20.0	105	71-133
Ethylbenzene	8260C	19.0	20.0	95	76-120
2-Hexanone	8260C	17.9	20.0	89	63-124
Methylene Chloride	8260C	20.0	20.0	100	73-122
4-Methyl-2-pentanone (MIBK)	8260C	18.9	20.0	94	66-124
Styrene	8260C	20.7	20.0	103	80-124
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-126
Tetrachloroethene	8260C	19.6	20.0	98	72-125
Toluene	8260C	21.1	20.0	106	79-119
1,1,1-Trichloroethane	8260C	20.3	20.0	102	75-125
1,1,2-Trichloroethane	8260C	20.7	20.0	104	82-121
Trichloroethene	8260C	19.6	20.0	98	74-122
Vinyl Chloride	8260C	20.7	20.0	104	74-159

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/3000.5202
Sample Matrix: Water

Service Request: R2104168
Date Analyzed: 05/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2105220-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	20.1	20.0	101	79-123
m,p-Xylenes	8260C	40.1	40.0	100	80-126

Groundwater Parameter Log
East Bloomfield, NY



Sampling Personnel: NJB/RDC

Event: April 2021

Date	Sample ID	Sample Time	DTW (R 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
4/30/21	MW-15	0850	12.47	8.8	6.77	0.627	7.00	70.1	0.00		Initial
				8.3	7.27	0.613	7.30	38.2	2.56		1st
				8.3	7.51	0.613	7.33	59.8	10.24		2nd
				8.5	6.55	0.665	7.24	12.7	16.27		3rd
	MW-4	0910	16.35	8.4	7.87	1.894	7.19	59.0	11.13		Initial
				8.6	7.95	1.923	7.20	65.6	33.94		1st
				8.7	7.92	1.930	7.21	69.0	128.71		2nd
				8.9	7.89	1.929	7.27	68.4	140.23		3rd
	PW-1	0935	13.83	11.2	6.39	1.675	7.33	30.2	4.10		
				-	-	-	-	-	-		
				-	-	-	-	-	-		
				-	-	-	-	-	-		
	MW-19	1000	19.19	8.1	6.52	0.613	7.49	33.8	0.00		Initial
				7.9	5.21	0.614	7.31	40.9	1.27		1st
				7.8	4.83	0.615	7.23	51.9	2.99		2nd
				7.8	4.63	0.617	7.13	56.4	4.66		3rd
	MW-18	1020	35.15	8.2	3.54	0.486	7.37	52.3	0.00		Initial
				8.2	4.02	0.481	7.40	52.5	0.67		1st
				8.2	4.21	0.481	7.40	52.3	3.21		2nd
				8.2	4.94	0.481	7.43	55.0	7.73		3rd
	MW-5	1040	15.83	7.5	7.49	0.627	7.66	51.2	0.00		Initial
				7.4	7.84	0.630	7.68	58.6	0.00		1st
				7.6	8.06	0.629	7.68	61.4	0.00		2nd
				7.6	8.50	0.629	7.69	65.5	0.00		3rd

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



Sampling Personnel: NJB/RDC

Event: April 2021

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
	MW-14	1100	56.88	8.2	6.51	0.579	7.45	68.6	0.00	3	Initial
8.1				6.17	0.551	7.38	62.2	0.82	1st		
8.2				5.95	0.574	7.37	60.5	5.62	2nd		
8.2				5.36	0.582	7.43	29.8	4.40	3rd		
	MW-13	1115	32.09	9.2	8.44	0.379	7.47	47.6	0.33	3	Initial
9.6				7.85	0.528	7.38	48.2	21.03	1st		
9.7				7.70	0.545	7.42	47.9	20.01	2nd		
9.6				7.97	0.553	7.47	47.4	30.18	3rd		
	MW-17	1130	50.82	12.2	3.64	2.189	7.13	-52.6	14.46	3	Initial
12.9				4.31	2.167	7.23	-24.5	132.00	1st		
12.4				4.38	2.193	7.32	-20.7	199.21	2nd		
12.8				3.11	2.247	7.31	-47.7	94.06	3rd		
	MW-3A	1145	50.31	10.4	2.86	1.217	7.25	-19.7	0.67	3	Initial
9.9				4.24	0.933	7.14	13.1	4.24	1st		
9.9				4.13	1.200	7.04	22.4	2.08	2nd		
9.9				6.08	1.271	7.02	41.3	7.55	3rd		
	MW-20	1215	53.73	11.5	9.25	4.012	7.19	58.9	5.08	3	Initial
11.6				9.36	4.491	7.26	55.6	38.71	1st		
11.6				9.41	4.658	7.29	53.9	28.00	2nd		
11.5				9.44	4.788	7.31	54.8	38.05	3rd		

Notes:

Samples submitted for VOC analysis via Method OLC 2.1 (3 - 40 mL vials/sample)

BTIC - below top of inner casing



November 05, 2021

Service Request No:R2111165

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 25, 2021
For your reference, these analyses have been assigned our service request number **R2111165**.

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)
Project: Crosman
Sample Matrix: Water

Service Request: R2111165
Date Received: 10/25/2021

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:

Seven water samples were received for analysis at ALS Environmental on 10/25/2021. 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, 11/02/2021: 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.

Method 8260C, 11/02/2021: 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, 11/03/2021: 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, 11/03/2021: 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.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 11/05/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-5	Lab ID: R2111165-001
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	21			5.0	ug/L	8260C

CLIENT ID: MW-14	Lab ID: R2111165-002
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	7.3			5.0	ug/L	8260C

CLIENT ID: PW-1	Lab ID: R2111165-004
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene	23			5.0	ug/L	8260C

CLIENT ID: MW-13	Lab ID: R2111165-005
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	7.6			5.0	ug/L	8260C
Trichloroethene	140			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)
Project: Crosman/30005202

Service Request:R2111165

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2111165-001	MW-5	10/25/2021	1050
R2111165-002	MW-14	10/25/2021	1120
R2111165-003	MW-4	10/25/2021	1210
R2111165-004	PW-1	10/25/2021	1245
R2111165-005	MW-13	10/25/2021	1400
R2111165-006	MW-15	10/25/2021	1420
R2111165-007	Trip Blank	10/25/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

061563

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name Crosman		Project Number 30003202		ANALYSIS REQUESTED (Include Method Number and Container Preservative)													
Project Manager Aaron Richardson		Report CC		PRESERVATIVE 1													
Company/Address Arcadis		NUMBER OF CONTAINERS		GC/MS VOAs • 8280 • 824 • CLP GC/MS SVDA5 • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)												Preservative Key	
100 chestnut st, suite 1020																0. NONE	
Rochester, NY 14604																1. HCL	
Phone # 585-880-3747		Email Ryan.Clare@Arcadis.com		2. HNO3		3. H2SO4		4. NaOH		5. Zn. Acetate		6. MeOH		7. NaHSO4		8. Other _____	
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Ryan Clare		REMARKS/ ALTERNATE DESCRIPTION													
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX												
MW-5		10/15/2021		1050	W	3	X										
MW-14		↓		1120	↓	↓	↓										
MW-4		↓		1210	↓	↓	↓										
PW-1		↓		1245	↓	↓	↓										
MW-13		↓		1400	↓	↓	↓										
MW-15		↓		1420	↓	↓	↓										
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ___ 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)			REPORT REQUIREMENTS ___ I. Results Only ___ II. Results + OC Summaries (LCS, DUP, MS/MSD as required) ___ III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data			INVOICE INFORMATION PO # BILL TO:					
See QAPP <input type="checkbox"/>						REQUESTED REPORT DATE _____			Edata ___ Yes ___ No								
STATE WHERE SAMPLES WERE COLLECTED																	
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY			
Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Signature		Signature		Signature		Signature		Signature		Signature			
Printed Name RYAN CLARE		Printed Name Matthew Marley		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name			
Firm Arcadis		Firm ALS		Firm		Firm		Firm		Firm		Firm		Firm			
Date/Time 10/25/21 16:55		Date/Time 10/25/21 16:45		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time			

R2111165 **5**
 ARCADIS of New York, Inc.
 Crosman



Cooler Receipt and Preservation Check Form.

R2111165
ARCADIS of New York, Inc.
Croaman

5



Project/Client Arcadis Folder Number _____

Cooler received on 10/25/21 by: MM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>(N)</u>
2	Custody papers properly completed (ink, signed)?	Y <u>(N)</u>
3	Did all bottles arrive in good condition (unbroken)?	Y <u>(N)</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <u>(N)</u>

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>(N)</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 10/25/21 Time: 16:50 ID: IR#7 (R#11) From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>13.6</u>						
Within 0-6°C?	Y <u>(N)</u>	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: Room by MM on 10/25/21 at 17:00
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/26/21 Time: 10:25 by: KE

- 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
- 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?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO 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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>No lot info</u>					

**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: 2596
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: KE
PC Secondary Review: MM 10/21/21 *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

<p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* 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.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



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.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202

Service Request: R2111165

Sample Name: MW-5
Lab Code: R2111165-001
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-14
Lab Code: R2111165-002
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-4
Lab Code: R2111165-003
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: PW-1
Lab Code: R2111165-004
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-13
Lab Code: R2111165-005
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202

Service Request: R2111165

Sample Name: MW-15
Lab Code: R2111165-006
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: Trip Blank
Lab Code: R2111165-007
Sample Matrix: Water

Date Collected: 10/25/21
Date Received: 10/25/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER



INORGANIC PREPARATION METHODS

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
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-5
Lab Code: R2111165-001

Service Request: R2111165
Date Collected: 10/25/21 10:50
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 16:44	
Benzene	ND U	5.0	1	11/02/21 16:44	
Bromodichloromethane	ND U	5.0	1	11/02/21 16:44	
Bromoform	ND U	5.0	1	11/02/21 16:44	
Bromomethane	ND U	5.0	1	11/02/21 16:44	
2-Butanone (MEK)	ND U	10	1	11/02/21 16:44	
Carbon Disulfide	ND U	10	1	11/02/21 16:44	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 16:44	
Chlorobenzene	ND U	5.0	1	11/02/21 16:44	
Chloroethane	ND U	5.0	1	11/02/21 16:44	
Chloroform	ND U	5.0	1	11/02/21 16:44	
Chloromethane	ND U	5.0	1	11/02/21 16:44	
Dibromochloromethane	ND U	5.0	1	11/02/21 16:44	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 16:44	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 16:44	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 16:44	
cis-1,2-Dichloroethene	21	5.0	1	11/02/21 16:44	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 16:44	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 16:44	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 16:44	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 16:44	
Ethylbenzene	ND U	5.0	1	11/02/21 16:44	
2-Hexanone	ND U	10	1	11/02/21 16:44	
Methylene Chloride	ND U	5.0	1	11/02/21 16:44	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 16:44	
Styrene	ND U	5.0	1	11/02/21 16:44	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 16:44	
Tetrachloroethene	ND U	5.0	1	11/02/21 16:44	
Toluene	ND U	5.0	1	11/02/21 16:44	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 16:44	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 16:44	
Trichloroethene	ND U	5.0	1	11/02/21 16:44	
Vinyl Chloride	ND U	5.0	1	11/02/21 16:44	
o-Xylene	ND U	5.0	1	11/02/21 16:44	
m,p-Xylenes	ND U	5.0	1	11/02/21 16:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-5
Lab Code: R2111165-001

Service Request: R2111165
Date Collected: 10/25/21 10:50
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 16:44	
Toluene-d8	97	87 - 121	11/02/21 16:44	
Dibromofluoromethane	100	80 - 116	11/02/21 16:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-14
Lab Code: R2111165-002

Service Request: R2111165
Date Collected: 10/25/21 11:20
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 17:07	
Benzene	ND U	5.0	1	11/02/21 17:07	
Bromodichloromethane	ND U	5.0	1	11/02/21 17:07	
Bromoform	ND U	5.0	1	11/02/21 17:07	
Bromomethane	ND U	5.0	1	11/02/21 17:07	
2-Butanone (MEK)	ND U	10	1	11/02/21 17:07	
Carbon Disulfide	ND U	10	1	11/02/21 17:07	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 17:07	
Chlorobenzene	ND U	5.0	1	11/02/21 17:07	
Chloroethane	ND U	5.0	1	11/02/21 17:07	
Chloroform	ND U	5.0	1	11/02/21 17:07	
Chloromethane	ND U	5.0	1	11/02/21 17:07	
Dibromochloromethane	ND U	5.0	1	11/02/21 17:07	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 17:07	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 17:07	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 17:07	
cis-1,2-Dichloroethene	ND U	5.0	1	11/02/21 17:07	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 17:07	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 17:07	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 17:07	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 17:07	
Ethylbenzene	ND U	5.0	1	11/02/21 17:07	
2-Hexanone	ND U	10	1	11/02/21 17:07	
Methylene Chloride	ND U	5.0	1	11/02/21 17:07	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 17:07	
Styrene	ND U	5.0	1	11/02/21 17:07	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 17:07	
Tetrachloroethene	ND U	5.0	1	11/02/21 17:07	
Toluene	ND U	5.0	1	11/02/21 17:07	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 17:07	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 17:07	
Trichloroethene	7.3	5.0	1	11/02/21 17:07	
Vinyl Chloride	ND U	5.0	1	11/02/21 17:07	
o-Xylene	ND U	5.0	1	11/02/21 17:07	
m,p-Xylenes	ND U	5.0	1	11/02/21 17:07	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-14
Lab Code: R2111165-002

Service Request: R2111165
Date Collected: 10/25/21 11:20
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 17:07	
Toluene-d8	97	87 - 121	11/02/21 17:07	
Dibromofluoromethane	99	80 - 116	11/02/21 17:07	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-4
Lab Code: R2111165-003

Service Request: R2111165
Date Collected: 10/25/21 12:10
Date Received: 10/25/21 16:45

Units: ug/L
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	11/03/21 16:18	
Benzene	ND U	5.0	1	11/03/21 16:18	
Bromodichloromethane	ND U	5.0	1	11/03/21 16:18	
Bromoform	ND U	5.0	1	11/03/21 16:18	
Bromomethane	ND U	5.0	1	11/03/21 16:18	
2-Butanone (MEK)	ND U	10	1	11/03/21 16:18	
Carbon Disulfide	ND U	10	1	11/03/21 16:18	
Carbon Tetrachloride	ND U	5.0	1	11/03/21 16:18	
Chlorobenzene	ND U	5.0	1	11/03/21 16:18	
Chloroethane	ND U	5.0	1	11/03/21 16:18	
Chloroform	ND U	5.0	1	11/03/21 16:18	
Chloromethane	ND U	5.0	1	11/03/21 16:18	
Dibromochloromethane	ND U	5.0	1	11/03/21 16:18	
1,1-Dichloroethane	ND U	5.0	1	11/03/21 16:18	
1,2-Dichloroethane	ND U	5.0	1	11/03/21 16:18	
1,1-Dichloroethene	ND U	5.0	1	11/03/21 16:18	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/21 16:18	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/21 16:18	
1,2-Dichloropropane	ND U	5.0	1	11/03/21 16:18	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/21 16:18	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/21 16:18	
Ethylbenzene	ND U	5.0	1	11/03/21 16:18	
2-Hexanone	ND U	10	1	11/03/21 16:18	
Methylene Chloride	ND U	5.0	1	11/03/21 16:18	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/21 16:18	
Styrene	ND U	5.0	1	11/03/21 16:18	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/21 16:18	
Tetrachloroethene	ND U	5.0	1	11/03/21 16:18	
Toluene	ND U	5.0	1	11/03/21 16:18	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/21 16:18	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/21 16:18	
Trichloroethene	ND U	5.0	1	11/03/21 16:18	
Vinyl Chloride	ND U	5.0	1	11/03/21 16:18	
o-Xylene	ND U	5.0	1	11/03/21 16:18	
m,p-Xylenes	ND U	5.0	1	11/03/21 16:18	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-4
Lab Code: R2111165-003

Service Request: R2111165
Date Collected: 10/25/21 12:10
Date Received: 10/25/21 16:45

Units: ug/L
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	11/03/21 16:18	
Toluene-d8	97	87 - 121	11/03/21 16:18	
Dibromofluoromethane	99	80 - 116	11/03/21 16:18	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: PW-1
Lab Code: R2111165-004

Service Request: R2111165
Date Collected: 10/25/21 12:45
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 17:51	
Benzene	ND U	5.0	1	11/02/21 17:51	
Bromodichloromethane	ND U	5.0	1	11/02/21 17:51	
Bromoform	ND U	5.0	1	11/02/21 17:51	
Bromomethane	ND U	5.0	1	11/02/21 17:51	
2-Butanone (MEK)	ND U	10	1	11/02/21 17:51	
Carbon Disulfide	ND U	10	1	11/02/21 17:51	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 17:51	
Chlorobenzene	ND U	5.0	1	11/02/21 17:51	
Chloroethane	ND U	5.0	1	11/02/21 17:51	
Chloroform	ND U	5.0	1	11/02/21 17:51	
Chloromethane	ND U	5.0	1	11/02/21 17:51	
Dibromochloromethane	ND U	5.0	1	11/02/21 17:51	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 17:51	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 17:51	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 17:51	
cis-1,2-Dichloroethene	ND U	5.0	1	11/02/21 17:51	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 17:51	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 17:51	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 17:51	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 17:51	
Ethylbenzene	ND U	5.0	1	11/02/21 17:51	
2-Hexanone	ND U	10	1	11/02/21 17:51	
Methylene Chloride	ND U	5.0	1	11/02/21 17:51	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 17:51	
Styrene	ND U	5.0	1	11/02/21 17:51	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 17:51	
Tetrachloroethene	ND U	5.0	1	11/02/21 17:51	
Toluene	ND U	5.0	1	11/02/21 17:51	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 17:51	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 17:51	
Trichloroethene	23	5.0	1	11/02/21 17:51	
Vinyl Chloride	ND U	5.0	1	11/02/21 17:51	
o-Xylene	ND U	5.0	1	11/02/21 17:51	
m,p-Xylenes	ND U	5.0	1	11/02/21 17:51	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: PW-1
Lab Code: R2111165-004

Service Request: R2111165
Date Collected: 10/25/21 12:45
Date Received: 10/25/21 16:45

Units: ug/L
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	87	85 - 122	11/02/21 17:51	
Toluene-d8	97	87 - 121	11/02/21 17:51	
Dibromofluoromethane	101	80 - 116	11/02/21 17:51	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-13
Lab Code: R2111165-005

Service Request: R2111165
Date Collected: 10/25/21 14:00
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 18:13	
Benzene	ND U	5.0	1	11/02/21 18:13	
Bromodichloromethane	ND U	5.0	1	11/02/21 18:13	
Bromoform	ND U	5.0	1	11/02/21 18:13	
Bromomethane	ND U	5.0	1	11/02/21 18:13	
2-Butanone (MEK)	ND U	10	1	11/02/21 18:13	
Carbon Disulfide	ND U	10	1	11/02/21 18:13	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 18:13	
Chlorobenzene	ND U	5.0	1	11/02/21 18:13	
Chloroethane	ND U	5.0	1	11/02/21 18:13	
Chloroform	ND U	5.0	1	11/02/21 18:13	
Chloromethane	ND U	5.0	1	11/02/21 18:13	
Dibromochloromethane	ND U	5.0	1	11/02/21 18:13	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 18:13	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 18:13	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 18:13	
cis-1,2-Dichloroethene	7.6	5.0	1	11/02/21 18:13	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 18:13	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 18:13	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:13	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:13	
Ethylbenzene	ND U	5.0	1	11/02/21 18:13	
2-Hexanone	ND U	10	1	11/02/21 18:13	
Methylene Chloride	ND U	5.0	1	11/02/21 18:13	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 18:13	
Styrene	ND U	5.0	1	11/02/21 18:13	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 18:13	
Tetrachloroethene	ND U	5.0	1	11/02/21 18:13	
Toluene	ND U	5.0	1	11/02/21 18:13	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 18:13	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 18:13	
Trichloroethene	140	5.0	1	11/02/21 18:13	
Vinyl Chloride	ND U	5.0	1	11/02/21 18:13	
o-Xylene	ND U	5.0	1	11/02/21 18:13	
m,p-Xylenes	ND U	5.0	1	11/02/21 18:13	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-13
Lab Code: R2111165-005

Service Request: R2111165
Date Collected: 10/25/21 14:00
Date Received: 10/25/21 16:45

Units: ug/L
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	89	85 - 122	11/02/21 18:13	
Toluene-d8	99	87 - 121	11/02/21 18:13	
Dibromofluoromethane	100	80 - 116	11/02/21 18:13	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-15
Lab Code: R2111165-006

Service Request: R2111165
Date Collected: 10/25/21 14:20
Date Received: 10/25/21 16:45

Units: ug/L
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	11/02/21 18:35	
Benzene	ND U	5.0	1	11/02/21 18:35	
Bromodichloromethane	ND U	5.0	1	11/02/21 18:35	
Bromoform	ND U	5.0	1	11/02/21 18:35	
Bromomethane	ND U	5.0	1	11/02/21 18:35	
2-Butanone (MEK)	ND U	10	1	11/02/21 18:35	
Carbon Disulfide	ND U	10	1	11/02/21 18:35	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 18:35	
Chlorobenzene	ND U	5.0	1	11/02/21 18:35	
Chloroethane	ND U	5.0	1	11/02/21 18:35	
Chloroform	ND U	5.0	1	11/02/21 18:35	
Chloromethane	ND U	5.0	1	11/02/21 18:35	
Dibromochloromethane	ND U	5.0	1	11/02/21 18:35	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 18:35	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 18:35	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 18:35	
cis-1,2-Dichloroethene	ND U	5.0	1	11/02/21 18:35	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 18:35	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 18:35	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:35	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:35	
Ethylbenzene	ND U	5.0	1	11/02/21 18:35	
2-Hexanone	ND U	10	1	11/02/21 18:35	
Methylene Chloride	ND U	5.0	1	11/02/21 18:35	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 18:35	
Styrene	ND U	5.0	1	11/02/21 18:35	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 18:35	
Tetrachloroethene	ND U	5.0	1	11/02/21 18:35	
Toluene	ND U	5.0	1	11/02/21 18:35	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 18:35	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 18:35	
Trichloroethene	ND U	5.0	1	11/02/21 18:35	
Vinyl Chloride	ND U	5.0	1	11/02/21 18:35	
o-Xylene	ND U	5.0	1	11/02/21 18:35	
m,p-Xylenes	ND U	5.0	1	11/02/21 18:35	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: MW-15
Lab Code: R2111165-006

Service Request: R2111165
Date Collected: 10/25/21 14:20
Date Received: 10/25/21 16:45

Units: ug/L
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	89	85 - 122	11/02/21 18:35	
Toluene-d8	100	87 - 121	11/02/21 18:35	
Dibromofluoromethane	102	80 - 116	11/02/21 18:35	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165
Date Collected: 10/25/21
Date Received: 10/25/21 16:45

Sample Name: Trip Blank
Lab Code: R2111165-007

Units: ug/L
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	11/02/21 18:58	
Benzene	ND U	5.0	1	11/02/21 18:58	
Bromodichloromethane	ND U	5.0	1	11/02/21 18:58	
Bromoform	ND U	5.0	1	11/02/21 18:58	
Bromomethane	ND U	5.0	1	11/02/21 18:58	
2-Butanone (MEK)	ND U	10	1	11/02/21 18:58	
Carbon Disulfide	ND U	10	1	11/02/21 18:58	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 18:58	
Chlorobenzene	ND U	5.0	1	11/02/21 18:58	
Chloroethane	ND U	5.0	1	11/02/21 18:58	
Chloroform	ND U	5.0	1	11/02/21 18:58	
Chloromethane	ND U	5.0	1	11/02/21 18:58	
Dibromochloromethane	ND U	5.0	1	11/02/21 18:58	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 18:58	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 18:58	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 18:58	
cis-1,2-Dichloroethene	ND U	5.0	1	11/02/21 18:58	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 18:58	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 18:58	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:58	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 18:58	
Ethylbenzene	ND U	5.0	1	11/02/21 18:58	
2-Hexanone	ND U	10	1	11/02/21 18:58	
Methylene Chloride	ND U	5.0	1	11/02/21 18:58	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 18:58	
Styrene	ND U	5.0	1	11/02/21 18:58	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 18:58	
Tetrachloroethene	ND U	5.0	1	11/02/21 18:58	
Toluene	ND U	5.0	1	11/02/21 18:58	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 18:58	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 18:58	
Trichloroethene	ND U	5.0	1	11/02/21 18:58	
Vinyl Chloride	ND U	5.0	1	11/02/21 18:58	
o-Xylene	ND U	5.0	1	11/02/21 18:58	
m,p-Xylenes	ND U	5.0	1	11/02/21 18:58	

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Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R2111165-007

Service Request: R2111165
Date Collected: 10/25/21
Date Received: 10/25/21 16:45

Units: ug/L
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	87	85 - 122	11/02/21 18:58	
Toluene-d8	99	87 - 121	11/02/21 18:58	
Dibromofluoromethane	99	80 - 116	11/02/21 18:58	



QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	80-116
MW-5	R2111165-001	88	97	100
MW-14	R2111165-002	86	97	99
MW-4	R2111165-003	88	97	99
PW-1	R2111165-004	87	97	101
MW-13	R2111165-005	89	99	100
MW-15	R2111165-006	89	100	102
Trip Blank	R2111165-007	87	99	99
Method Blank	RQ2114014-04	86	95	97
Method Blank	RQ2114056-04	85	95	98
Lab Control Sample	RQ2114014-03	89	98	102
Lab Control Sample	RQ2114056-03	93	99	103

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2114014-04

Service Request: R2111165
Date Collected: NA
Date Received: NA
Units: ug/L
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	11/02/21 14:25	
Benzene	ND U	5.0	1	11/02/21 14:25	
Bromodichloromethane	ND U	5.0	1	11/02/21 14:25	
Bromoform	ND U	5.0	1	11/02/21 14:25	
Bromomethane	ND U	5.0	1	11/02/21 14:25	
2-Butanone (MEK)	ND U	10	1	11/02/21 14:25	
Carbon Disulfide	ND U	10	1	11/02/21 14:25	
Carbon Tetrachloride	ND U	5.0	1	11/02/21 14:25	
Chlorobenzene	ND U	5.0	1	11/02/21 14:25	
Chloroethane	ND U	5.0	1	11/02/21 14:25	
Chloroform	ND U	5.0	1	11/02/21 14:25	
Chloromethane	ND U	5.0	1	11/02/21 14:25	
Dibromochloromethane	ND U	5.0	1	11/02/21 14:25	
1,1-Dichloroethane	ND U	5.0	1	11/02/21 14:25	
1,2-Dichloroethane	ND U	5.0	1	11/02/21 14:25	
1,1-Dichloroethene	ND U	5.0	1	11/02/21 14:25	
cis-1,2-Dichloroethene	ND U	5.0	1	11/02/21 14:25	
trans-1,2-Dichloroethene	ND U	5.0	1	11/02/21 14:25	
1,2-Dichloropropane	ND U	5.0	1	11/02/21 14:25	
cis-1,3-Dichloropropene	ND U	5.0	1	11/02/21 14:25	
trans-1,3-Dichloropropene	ND U	5.0	1	11/02/21 14:25	
Ethylbenzene	ND U	5.0	1	11/02/21 14:25	
2-Hexanone	ND U	10	1	11/02/21 14:25	
Methylene Chloride	ND U	5.0	1	11/02/21 14:25	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/02/21 14:25	
Styrene	ND U	5.0	1	11/02/21 14:25	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/02/21 14:25	
Tetrachloroethene	ND U	5.0	1	11/02/21 14:25	
Toluene	ND U	5.0	1	11/02/21 14:25	
1,1,1-Trichloroethane	ND U	5.0	1	11/02/21 14:25	
1,1,2-Trichloroethane	ND U	5.0	1	11/02/21 14:25	
Trichloroethene	ND U	5.0	1	11/02/21 14:25	
Vinyl Chloride	ND U	5.0	1	11/02/21 14:25	
o-Xylene	ND U	5.0	1	11/02/21 14:25	
m,p-Xylenes	ND U	5.0	1	11/02/21 14:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2114014-04

Service Request: R2111165
Date Collected: NA
Date Received: NA
Units: ug/L
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	11/02/21 14:25	
Toluene-d8	95	87 - 121	11/02/21 14:25	
Dibromofluoromethane	97	80 - 116	11/02/21 14:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2114056-04

Service Request: R2111165
Date Collected: NA
Date Received: NA
Units: ug/L
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	11/03/21 12:30	
Benzene	ND U	5.0	1	11/03/21 12:30	
Bromodichloromethane	ND U	5.0	1	11/03/21 12:30	
Bromoform	ND U	5.0	1	11/03/21 12:30	
Bromomethane	ND U	5.0	1	11/03/21 12:30	
2-Butanone (MEK)	ND U	10	1	11/03/21 12:30	
Carbon Disulfide	ND U	10	1	11/03/21 12:30	
Carbon Tetrachloride	ND U	5.0	1	11/03/21 12:30	
Chlorobenzene	ND U	5.0	1	11/03/21 12:30	
Chloroethane	ND U	5.0	1	11/03/21 12:30	
Chloroform	ND U	5.0	1	11/03/21 12:30	
Chloromethane	ND U	5.0	1	11/03/21 12:30	
Dibromochloromethane	ND U	5.0	1	11/03/21 12:30	
1,1-Dichloroethane	ND U	5.0	1	11/03/21 12:30	
1,2-Dichloroethane	ND U	5.0	1	11/03/21 12:30	
1,1-Dichloroethene	ND U	5.0	1	11/03/21 12:30	
cis-1,2-Dichloroethene	ND U	5.0	1	11/03/21 12:30	
trans-1,2-Dichloroethene	ND U	5.0	1	11/03/21 12:30	
1,2-Dichloropropane	ND U	5.0	1	11/03/21 12:30	
cis-1,3-Dichloropropene	ND U	5.0	1	11/03/21 12:30	
trans-1,3-Dichloropropene	ND U	5.0	1	11/03/21 12:30	
Ethylbenzene	ND U	5.0	1	11/03/21 12:30	
2-Hexanone	ND U	10	1	11/03/21 12:30	
Methylene Chloride	ND U	5.0	1	11/03/21 12:30	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	11/03/21 12:30	
Styrene	ND U	5.0	1	11/03/21 12:30	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	11/03/21 12:30	
Tetrachloroethene	ND U	5.0	1	11/03/21 12:30	
Toluene	ND U	5.0	1	11/03/21 12:30	
1,1,1-Trichloroethane	ND U	5.0	1	11/03/21 12:30	
1,1,2-Trichloroethane	ND U	5.0	1	11/03/21 12:30	
Trichloroethene	ND U	5.0	1	11/03/21 12:30	
Vinyl Chloride	ND U	5.0	1	11/03/21 12:30	
o-Xylene	ND U	5.0	1	11/03/21 12:30	
m,p-Xylenes	ND U	5.0	1	11/03/21 12:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2114056-04

Service Request: R2111165
Date Collected: NA
Date Received: NA
Units: ug/L
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	85	85 - 122	11/03/21 12:30	
Toluene-d8	95	87 - 121	11/03/21 12:30	
Dibromofluoromethane	98	80 - 116	11/03/21 12:30	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165
Date Analyzed: 11/02/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114014-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	15.6	20.0	78	40-161
Benzene	8260C	19.9	20.0	100	79-119
Bromodichloromethane	8260C	21.2	20.0	106	81-123
Bromoform	8260C	20.4	20.0	102	65-146
Bromomethane	8260C	30.0	20.0	150	42-166
2-Butanone (MEK)	8260C	17.1	20.0	85	61-137
Carbon Disulfide	8260C	26.3	20.0	131 *	66-128
Carbon Tetrachloride	8260C	22.6	20.0	113	70-127
Chlorobenzene	8260C	19.6	20.0	98	80-121
Chloroethane	8260C	25.1	20.0	125	62-131
Chloroform	8260C	18.9	20.0	94	79-120
Chloromethane	8260C	24.2	20.0	121	65-135
Dibromochloromethane	8260C	21.6	20.0	108	72-128
1,1-Dichloroethane	8260C	20.7	20.0	104	80-124
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,1-Dichloroethene	8260C	20.0	20.0	100	71-118
cis-1,2-Dichloroethene	8260C	20.3	20.0	102	80-121
trans-1,2-Dichloroethene	8260C	21.0	20.0	105	73-118
1,2-Dichloropropane	8260C	20.4	20.0	102	80-119
cis-1,3-Dichloropropene	8260C	22.3	20.0	111	77-122
trans-1,3-Dichloropropene	8260C	22.1	20.0	111	71-133
Ethylbenzene	8260C	20.5	20.0	102	76-120
2-Hexanone	8260C	16.4	20.0	82	63-124
Methylene Chloride	8260C	19.9	20.0	100	73-122
4-Methyl-2-pentanone (MIBK)	8260C	17.8	20.0	89	66-124
Styrene	8260C	19.4	20.0	97	80-124
1,1,2,2-Tetrachloroethane	8260C	20.9	20.0	104	78-126
Tetrachloroethene	8260C	20.6	20.0	103	72-125
Toluene	8260C	20.4	20.0	102	79-119
1,1,1-Trichloroethane	8260C	20.8	20.0	104	75-125
1,1,2-Trichloroethane	8260C	20.0	20.0	100	82-121
Trichloroethene	8260C	19.4	20.0	97	74-122
Vinyl Chloride	8260C	24.0	20.0	120	74-159

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165
Date Analyzed: 11/02/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114014-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	19.9	20.0	100	79-123
m,p-Xylenes	8260C	40.5	40.0	101	80-126

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165
Date Analyzed: 11/03/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114056-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	17.0	20.0	85	40-161
Benzene	8260C	20.3	20.0	102	79-119
Bromodichloromethane	8260C	21.3	20.0	106	81-123
Bromoform	8260C	19.7	20.0	98	65-146
Bromomethane	8260C	29.2	20.0	146	42-166
2-Butanone (MEK)	8260C	18.4	20.0	92	61-137
Carbon Disulfide	8260C	25.7	20.0	129 *	66-128
Carbon Tetrachloride	8260C	22.9	20.0	115	70-127
Chlorobenzene	8260C	20.3	20.0	102	80-121
Chloroethane	8260C	26.2	20.0	131	62-131
Chloroform	8260C	18.9	20.0	95	79-120
Chloromethane	8260C	27.0	20.0	135	65-135
Dibromochloromethane	8260C	20.9	20.0	105	72-128
1,1-Dichloroethane	8260C	21.1	20.0	106	80-124
1,2-Dichloroethane	8260C	20.8	20.0	104	71-127
1,1-Dichloroethene	8260C	20.9	20.0	105	71-118
cis-1,2-Dichloroethene	8260C	20.5	20.0	102	80-121
trans-1,2-Dichloroethene	8260C	21.1	20.0	106	73-118
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
cis-1,3-Dichloropropene	8260C	21.9	20.0	110	77-122
trans-1,3-Dichloropropene	8260C	22.1	20.0	110	71-133
Ethylbenzene	8260C	20.5	20.0	103	76-120
2-Hexanone	8260C	17.9	20.0	90	63-124
Methylene Chloride	8260C	19.9	20.0	99	73-122
4-Methyl-2-pentanone (MIBK)	8260C	19.6	20.0	98	66-124
Styrene	8260C	19.6	20.0	98	80-124
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	104	78-126
Tetrachloroethene	8260C	20.7	20.0	103	72-125
Toluene	8260C	20.4	20.0	102	79-119
1,1,1-Trichloroethane	8260C	20.4	20.0	102	75-125
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-121
Trichloroethene	8260C	19.7	20.0	99	74-122
Vinyl Chloride	8260C	25.7	20.0	128	74-159

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Crosman/30005202
Sample Matrix: Water

Service Request: R2111165
Date Analyzed: 11/03/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114056-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	20.3	20.0	101	79-123
m,p-Xylenes	8260C	40.8	40.0	102	80-126

Groundwater Parameter Log
East Bloomfield, NY



Sampling Personnel: ~~NJS/RDC~~ RDC/KCF
Event: ~~April 2024~~ October 2021

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	
10/25/2021	PW-1	1245	14.25	12.2	5.67	1.560	7.30	241.3	11.44	3	Initial	
10/25/2021	MW-15 MW-15	1420	13.83	11.9	4.15	0.629	7.49	221.6	9.11	3	Initial	
				11.3	3.77	0.603	7.50	227.3	28.14		1 volume	
				10.8	4.00	0.714	7.45	106.3	34.86		2 volumes	
				10.6	3.70	0.794	7.39	-18.4	41.87		3 volumes	
10/25/2021	MW-5	1050	16.07	12.6	7.78	0.713	7.45	257.4	5.08	3	Initial	
				11.5	6.48	0.682	7.29	240.7	3.74		1 volume	
				10.2	5.54	0.718	7.25	243.9	4.76		2 volumes	
				9.9	3.85	0.796	7.25	7.3	8.91		3 volumes	
10/25/2021	MW-14	1120	56.84	9.9	7.62	0.542	7.38	180.5	0.84	3	Initial	
				9.7	8.51	0.532	7.49	204.4	2547		1 volume	
				9.7	8.03	0.536	7.52	219.8	92.07		2 volumes	
				9.6	5.76	0.555	7.48	183.0	61.60		3 volumes	
10/25/2021	MW-4 MW-4	1210	16.42	12.5	9.31	0.357	7.78	241.8	15.05	3	Initial	
				11.9	8.75	0.490	7.55	252.8	78.72		1 volume	
				11.6	8.28	0.560	7.45	259.3	95.80		2 volumes	
				11.4	7.54	0.522	7.46	262.8	150.73		3 volumes	
10/25/2021	MW-13 MW-13	1400	32.12 32.12	11.5	6.25	0.536	7.34	258.4	17.48	3	Initial	
				11.2	6.43	0.526	7.22	271.2	22.05		1 volume	
				11.2	6.89	0.523	7.19	277.2	31.50		2 volumes	
				11.2	6.77	1.114	7.20	285.9	30.73		3 volumes	

Notes:

Samples submitted for VOC analysis via Method OLC 2.1 (3 - 40 mL vials/sample)

BTIC - below top of inner casing

Appendix G

Discharge Monitoring Reports



7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

January 20, 2021

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 2021 (1 01 21 to 1 31 21). 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
1/13/21	8:40 AM	22	9	8.27	1.99	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





7629 Routes 5 and 20; Bloomfield, NY 14469 (585)-657-6161

February 24, 2021

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 2021 (2 01 21 to 2 28 21). 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
2/10/21	8:30 AM	20	12	8.11	3.27	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

March 17, 2021

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 2021 (3 01 21 to 3 31 21). 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
3/10/21	7:50 AM	22	12	8.13	2.39	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 21, 2021

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 2021 (4 01 21 to 4 30 21). 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
4/14/21	8:20 AM	40	12	8.16	8.10	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 20, 2021

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 2021 (5 01 21 to 5 31 21). 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
5/12/21	8:20 AM	40	12	8.20	5.41	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 25, 2021

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 2021 (6 01 21 to 6 30 21). 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
6/16/21	8:00 AM	79F	9	8.33	19.9	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 28, 2021

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 August 2021 (7 01 21 to 7 31 21). 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
7/21/21	7:30 AM	60	53	8.74	25.9	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

September 1, 2021

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 September 2021 (8 01 21 to 8 31 21). 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
8/11/21	8:40 AM	60	1130 high flow due to recent heavy rains	9.00	30.8	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.

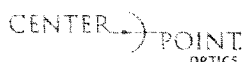
Sincerely,



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

September 24, 2021

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 October 2021 (9 01 21 to 9 30 21). 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
9/15/21	9:12 AM	56	9	8.69	15.7	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

October 21, 2021

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 November 2021 (10 01 21 to 10 31 21). 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
10/13/21	9:45 AM	51	12	8.51	17.9	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

November 17, 2021

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 December 2021 (11 01 21 to 11 30 21). 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
11/10/21	9:06 AM	36	37	8.18	18.1	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

December 27, 2021

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 January 2022 (12 01 21 to 12 31 21). 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
12/15/21	9:20 AM	28	9	8.31	7.04	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.



Arcadis of New York, Inc.
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Rochester
New York 14604
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