

SOIL VAPOR EXTRACTION SYSTEM SECOND SEMIANNUAL REPORT 2021

**KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MISSISSIPPI**

Prepared by:



P.O. Box 15369
Hattiesburg, Mississippi 39404

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EMS Project No: KUH0-21-012

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A	Observation Well Soil Vapor Laboratory Analytical Results
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Executive Summary

This Soil Vapor Extraction (SVE) System Semiannual Report summarizes the performance of the SVE system installed by Environmental Management Services, Inc. (EMS) for Kuhlman Electric Company (KEC) located in Crystal Springs, Mississippi (the Site). This report includes a synopsis of the performance data for the second semiannual period of 2021.

The system initially began operations April 21, 2014 with normal operation attained on May 2, 2014. Routine monitoring has been performed according to the schedule described in the *SVE Final Design and Quality Assurance Project Plan* submitted to the Mississippi Department of Environmental Quality (MDEQ) on September 13, 2013.

Historical Information Summary

The Site is located at 101 Kuhlman Drive in Crystal Springs, Mississippi, as shown in Figure 1, and has operated as an electrical transformer manufacturing plant since its construction in the 1950's. In April of 2000, Polychlorinated Biphenyl (PCB)-contaminated soil was discovered on-site during subsurface construction activities. This discovery initiated several phases of environmental assessments and remediation projects, some of which are currently ongoing. During these investigations and remediation projects it was discovered that the groundwater on and off KEC property was impacted with Volatile Organic Compounds (VOCs); principally, 1,1-dichloroethene (DCE) and the semi-volatile constituent 1,4-dioxane.

An investigation was performed to determine the source of the groundwater impacts and was documented in the April 30, 2009 *Groundwater Assessment Report, Kuhlman Electric Corporation, Crystal Springs, Mississippi* prepared by Martin & Slagle Geoenvironmental Associates, LLC (Martin & Slagle) for BorgWarner (hereafter referred to as the April 2009 *Groundwater Assessment Report*). These efforts included a soil vapor study, which detected VOCs in the soil vapors from 3 to 12 feet below the plant floor. Soil samples were also collected from beneath the building from 0 to 62 feet below ground surface (bgs) and analyzed for VOCs.

The analytical results indicated that VOCs were present in the subsurface soil under portions of the plant building. This area, near the western portion of the plant building beneath the Winding Department process area, the Break Room, and a former rail pit, was identified as the source area for the groundwater impacts. The source area was first published in the April 2009 Groundwater Assessment Report and is depicted on Figure 2 of this report.

These investigations beneath the building footprint confirmed that commingled plumes of DCE and 1,4-dioxane extend from upgradient of the source area, beneath the plant building, to the southwest and off-site. The DCE plume extends off-site approximately 2,800 feet to the south and approximately 3,400 feet to the west from the property boundary based on the most recent groundwater sampling data collected in September of 2021.

DCE and 1,4-dioxane have been identified as the primary Constituents of Concern (COC) at this site. The presence of 1,4-dioxane is presumed to be related to its use as a stabilizer in 1,1,1-trichloroethane (TCA), a solvent used in the past at the KEC site. DCE is a breakdown product of TCA.

In connection with the environmental assessments at the site and in accordance with MDEQ requirements, groundwater monitoring has been performed on and off the KEC facility property since 2004. Groundwater monitoring is currently performed on a semiannual schedule. A total of forty-six permanent groundwater monitoring wells are used to monitor the groundwater plume.

As a result of the discovery of the groundwater contamination and subsequent investigations of soil and groundwater, BorgWarner submitted the Corrective Action Plan (CAP) dated March 2011 (Arcadis) to MDEQ. The CAP was approved by MDEQ on March 1, 2012. The CAP targeted an area beneath the building as the source area contributing to the groundwater impact by the COC as shown in Figure 2. It presented three objectives to mitigate impacts to the COC contaminant plume. The three objectives are listed below:

1. Ensure COC concentrations in soil and groundwater in the contaminant source area beneath the KEC manufacturing building are at levels protective of site workers.
2. Reduce COC concentrations in soil in the contaminant source area beneath the KEC manufacturing building to the extent that remaining concentrations no longer contribute to, or exacerbate COC concentrations in off-site groundwater.
3. Reduce COC concentrations in off-site groundwater to levels protective of downgradient groundwater receptors.

A pilot study was performed at the site May 12-13, 2012, to confirm the viability of soil vapor extraction as a remedial strategy. The *Soil Vapor Extraction Pilot Study Report* (revised May 1, 2013) detailing the outcome of the study and proposing the use of Soil Vapor Extraction (SVE) to reduce COC concentrations was approved by MDEQ July 12, 2013. The *Soil Vapor Extraction Final Design and Quality Assurance Project Plan* was approved by MDEQ October 4, 2013. The system was installed as described in the *SVE Installation Report* submitted to MDEQ September 18, 2014.

SVE Operations and Maintenance

Activities performed during site visits included visually inspecting the operating components, adjusting various operating parameters if warranted, collecting samples, and collecting operating data. The well vault containing SVE-OBS-06 (Figure 2) was damaged in December 2019. Due to the poor location of the well and the high likelihood of the well being damaged again in the future, SVE-OBS-06 was plugged and abandoned on February 24, 2020. In December 2021, the SVE system carbon was replaced and the SVE system's telemetry system was upgraded to a cellular system. The new telemetry system offers much higher reliability and many new notification features not found on the original system. Other than the carbon replacement and the upgraded telemetry system, there were no other significant maintenance activities performed by EMS during the 2021 second semiannual period.

Groundwater Results

Groundwater was sampled from the entire network of monitoring wells, which includes the SVE Performance Monitoring Wells MW-10A, MW-10B, MW-10C, MW-30, MW-31, and MW-35, as shown on Figure 1, in September 2021, for the required semiannual sampling event. Analytical results for MW-10A and MW-10B showed concentrations of constituents greater than the MDEQ groundwater target remediation goals (TRG). The constituents with exceedances were 1,4-dioxane and DCE. The analytical results from the semiannual groundwater monitoring indicate that the concentrations of DCE and other analytes within the source area have decreased since the start-up of the SVE unit (Figure 3). The analytical results from the September 2021 sampling event for the wells listed are presented in Table 1.

Soil Vapor Results

The observation wells, as shown on Figure 2, are monitored quarterly for relative VOC concentration in the soil vapor. Tubing is placed in the well to a depth within the screened interval, and a photoionization detection (PID) meter and a flame ionization detection (FID) meter are used to purge the wells and measure the relative VOC concentration in the soil vapor within the well. The measured relative concentrations ranged from 0.0 to 0.4 parts per million (ppm) with the PID and from 0.0 to 30 ppm with the FID. The observation well soil vapor results for September 2021 and December 2021 are summarized in Table 2.

The observation well soil vapor was also sampled and analyzed for VOCs and 1,4-dioxane during the September and December sampling events using 1-liter SUMMA canisters. The vapor samples were collected by placing tubing within the middle of the screened interval depth and the well opening was covered. A PID meter and FID meter were then used to purge and measure the relative VOC concentration in the soil vapor. After obtaining the PID and FID measurements, the SUMMA canister was connected to the tubing to collect the soil vapors within the screened interval. The observation well soil vapor analytical results are summarized in Table 3, and the laboratory results are included in Appendix A.

The SVE system exhaust and the vapor exiting each stage of carbon treatment were monitored quarterly utilizing both PID and FID meters to evaluate relative VOC concentrations. The relative VOC concentrations measured by the PID meter and the FID meter in the discharge from the SVE system prior to carbon treatment are included in Table 4.

The SVE unit exhaust and the vapor exiting each stage of carbon treatment were also sampled and analyzed for VOCs and 1,4-dioxane. Samples were collected during September 2021 and December 2021. The results are summarized in Table 5. SVE system flow rates are also measured and are summarized in Table 6. The concentrations of TCA, DCE, and 1,4-dioxane and the average flow rates are used to calculate the cumulative mass removed. Since startup of the SVE unit, approximately 4.71 pounds of TCA, 18.81 pounds of DCE, and 285.89 pounds of 1,4-dioxane have been removed through the SVE system. Upon review of this report an error was found in Soil Vapor Extraction System First Semiannual Report 2021 dated September 28, 2021 regarding the total amount of contaminants removed since the SVE startup. The total contaminant removal numbers in this report have been updated using the corrected data. Figures 4-6 show the cumulative mass removal of each constituent. Figure 7 shows the mass recovered per sampling events since the startup of the SVE unit. Laboratory results along with the cumulative mass removal calculations are included in Appendix B.

The flow rates from each individual well are also calculated and recorded during routine visits to the SVE system. The calculated flow rates from each well for the period from July to December are contained in Table 6.

Ambient Air Results

Ambient air sampling was performed quarterly utilizing 1-liter SUMMA canisters equipped with 8-hour flow valves. The air sampling locations are shown on Figure 2. The canisters are placed in the sampling location to collect samples to be analyzed for VOCs and 1,4-dioxane. Concentrations of all analytes detected were well below any published regulatory limit. The analytical results of the ambient air monitoring for the semiannual period are shown in Table 7. The analytical laboratory reports for the ambient air monitoring are contained in Appendix C.

Vacuum Measurements

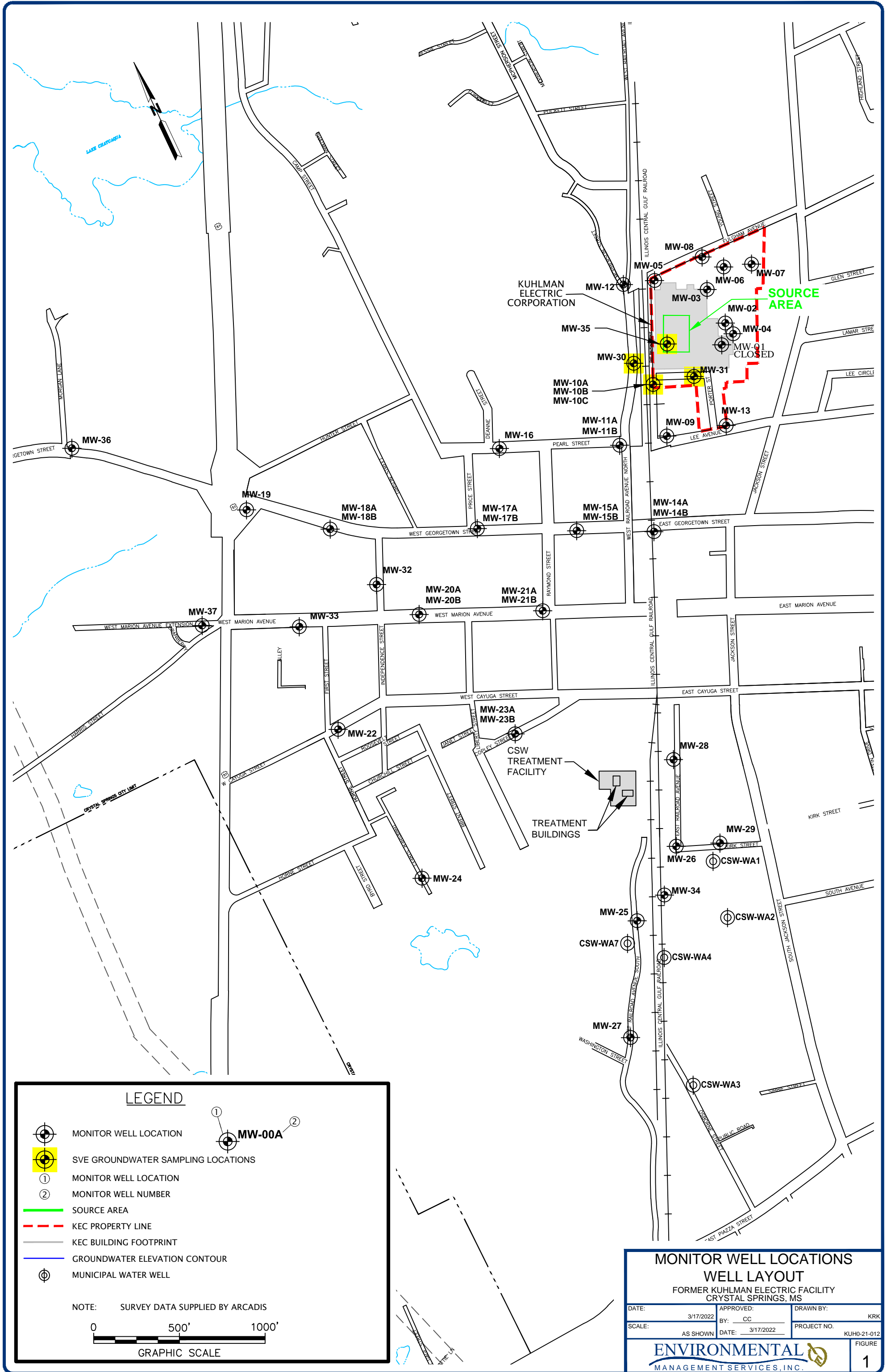
The vacuum response at each observation well is measured quarterly. At 80 feet from the nearest extraction well, the vacuum response averaged 2.15 inches of water. The vacuum response measurements for the second semiannual period in 2021 are shown in Table 8.

In addition, vacuum gauges were placed in the interstitial space on each dual-walled HDPE piping run near the extraction wells. The vacuum gauges are used to measure the vacuum or pressure of the interstitial space between the inner carrier pipe and the outer containment pipe during monthly site visits for leak detection. The gauges have shown no measureable vacuum or pressure within the interstitial space indicating no leaks within the carrier pipe.

Conclusion

The results from this monitoring period indicate that contaminants are being removed from the soil beneath the facility. The remediation activities will continue to remove contaminant mass from the soil through vapor extraction in order to remediate the defined source area. Monitoring as described in this report will continue, and monitoring events will be documented and reported semiannually.

FIGURES



LEGEND

- MONITOR WELL LOCATION
- SVE GROUNDWATER SAMPLING LOCATIONS
- MONITOR WELL LOCATION
- MONITOR WELL NUMBER
- SOURCE AREA
- KEC PROPERTY LINE
- KEC BUILDING FOOTPRINT
- GROUNDWATER ELEVATION CONTOUR
- MUNICIPAL WATER WELL

NOTE: SURVEY DATA SUPPLIED BY ARCADIS



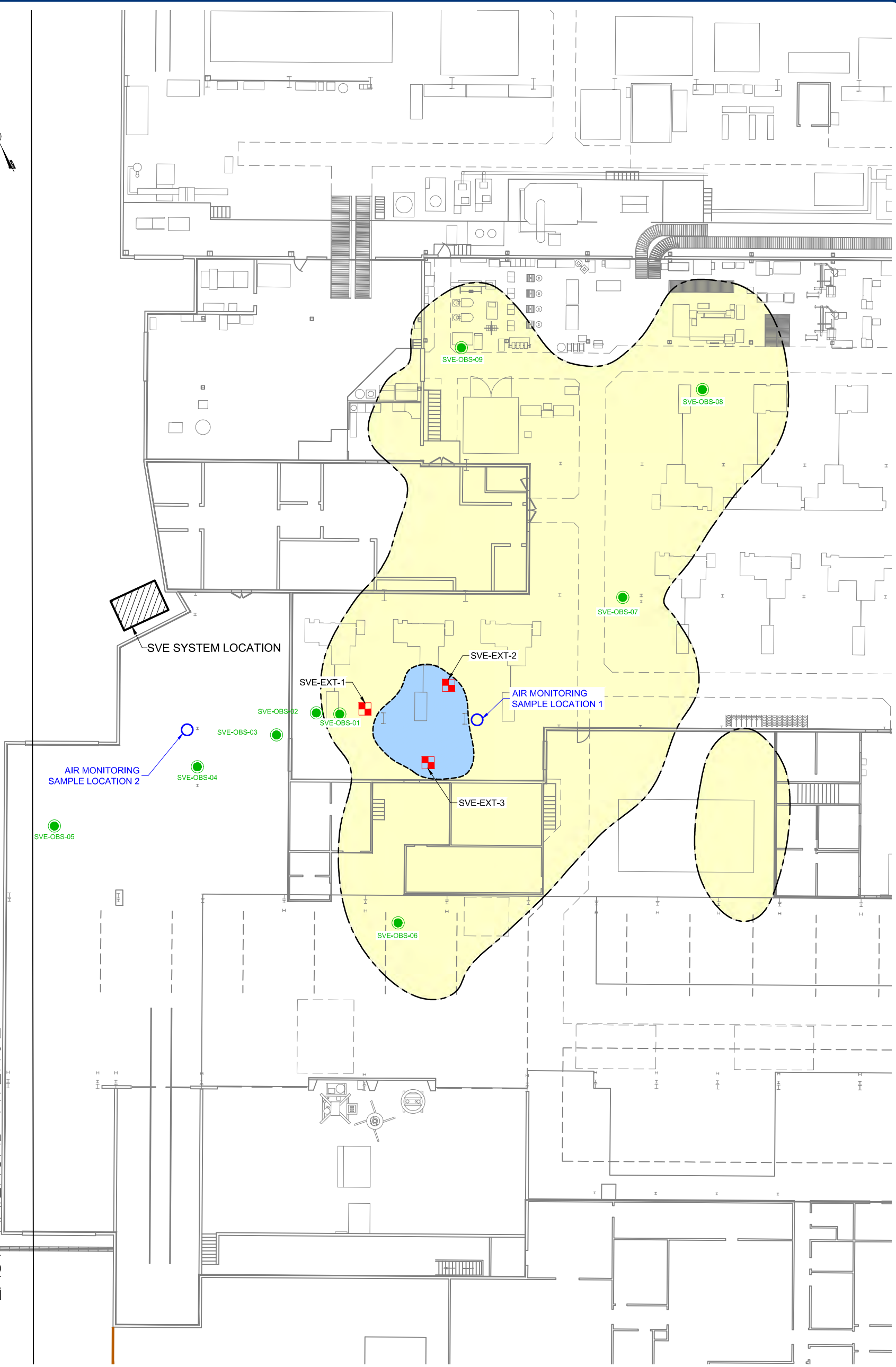
**MONITOR WELL LOCATIONS
WELL LAYOUT**
FORMER KUHLMAN ELECTRIC FACILITY
CRYSTAL SPRINGS, MS

DATE: 3/17/2022	APPROVED: CC	DRAWN BY: KRK
SCALE: AS SHOWN	DATE: 3/17/2022	PROJECT NO. KUHO-21-012







ENVIRONMENTAL
MANAGEMENT SERVICES, INC.



EAST RAILROAD AVENUE

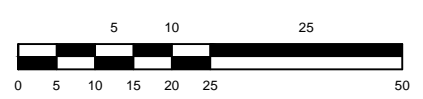


LEGEND

-  KEC BUILDING FOOTPRINT
-  SVE OBSERVATION WELLS
-  SVE EXTRACTION WELLS
-  AMBIENT AIR SAMPLE LOCATIONS
-  1,1-DICHLOROETHENE IN SOIL EXCEEDING UNRESTRICTED TIER 1 TRG (0.0772 mg/kg)
-  1,4-DIOXANE IN SOIL EXCEEDING UNRESTRICTED TIER 1 TRG (58.1 mg/kg)

NOTES:
 1) SOIL CONCENTRATIONS ARE BASED ON EXTENT AS DEFINED IN CORRECTIVE ACTION PLAN, ARCADIS, MARCH 2010.
 2) SVE-OBS-06 WAS PLUGGED AND ABANDONED ON FEBRUARY 24, 2020.

SCALE 1 INCH = 25 FEET



SVE SYSTEM LAYOUT

FORMER KUHLMAN ELECTRIC FACILITY
CRYSTAL SPRINGS, MS

DATE: 3/17/2022	APPROVED: CC	DRAWN BY: KRK/LMM
SCALE: AS SHOWN	DATE: 3/17/2022	CAD NO. KUHO-21-012



Figure 4
1,1,1-Trichloroethane Cumulative Mass Removal
Through December 2021

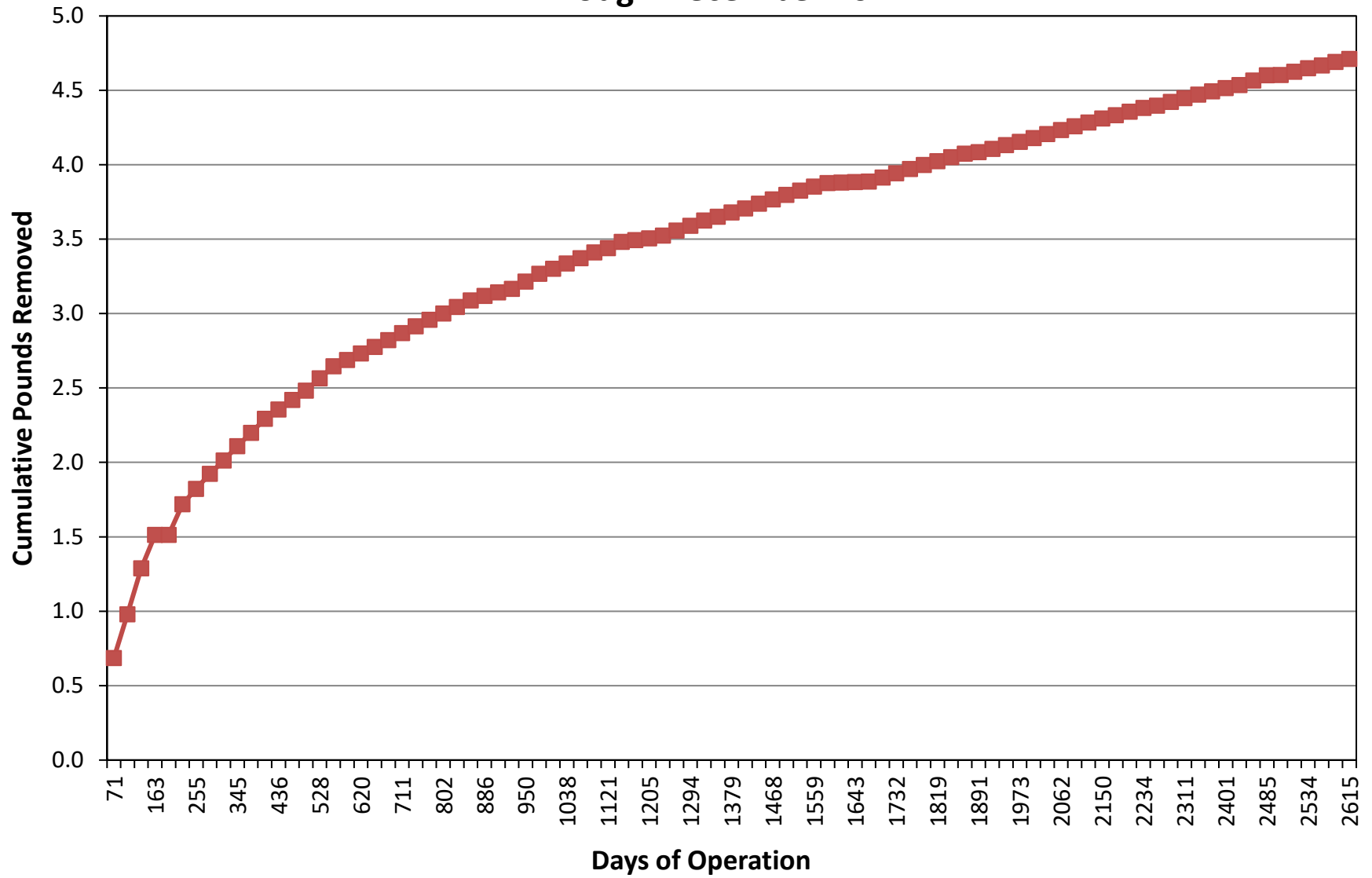


Figure 5
1,1-Dichloroethene Cumulative Mass Removal
Through December 2021

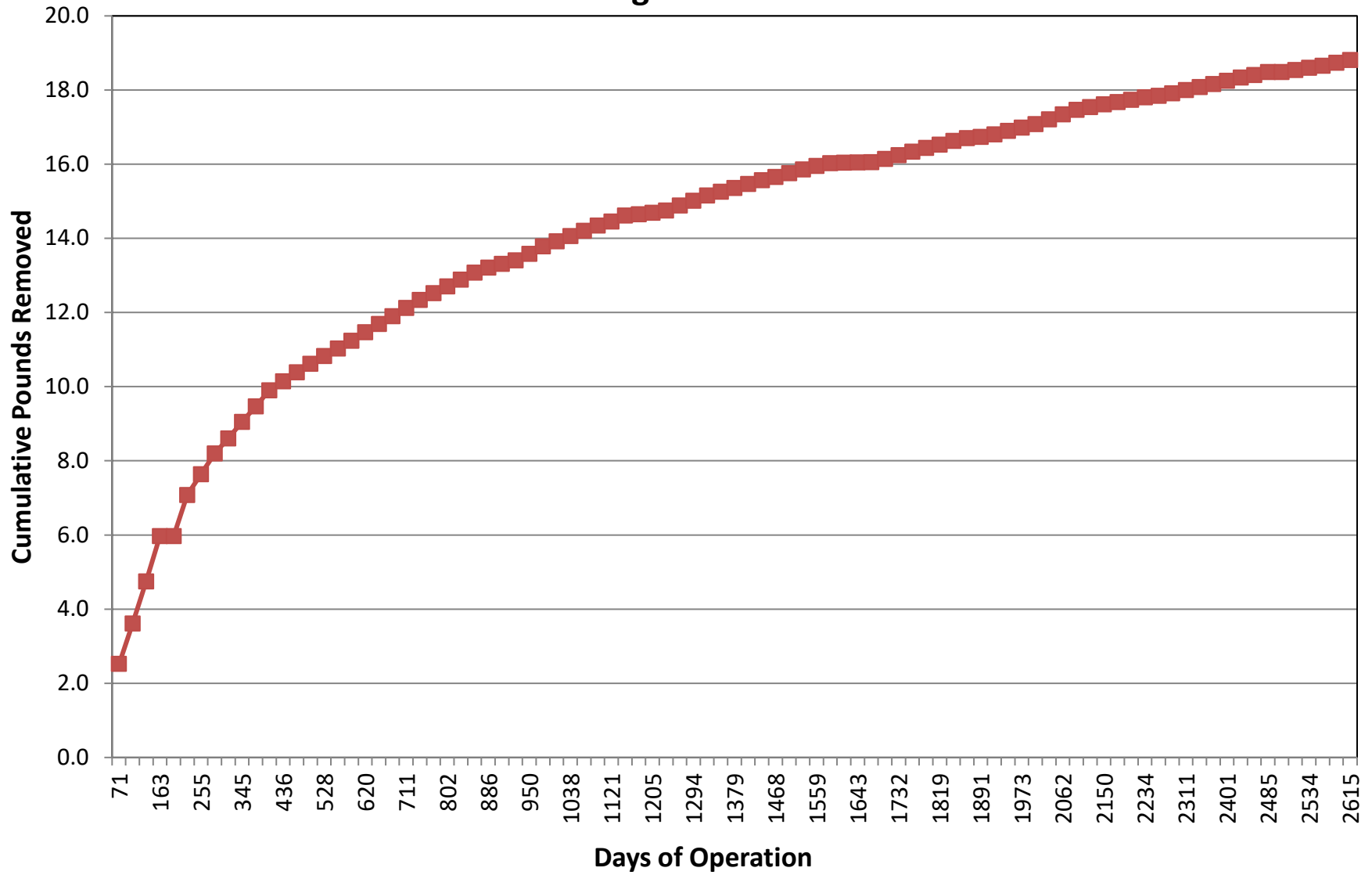


Figure 6
1,4-Dioxane Cumulative Mass Removal
Through December 2021

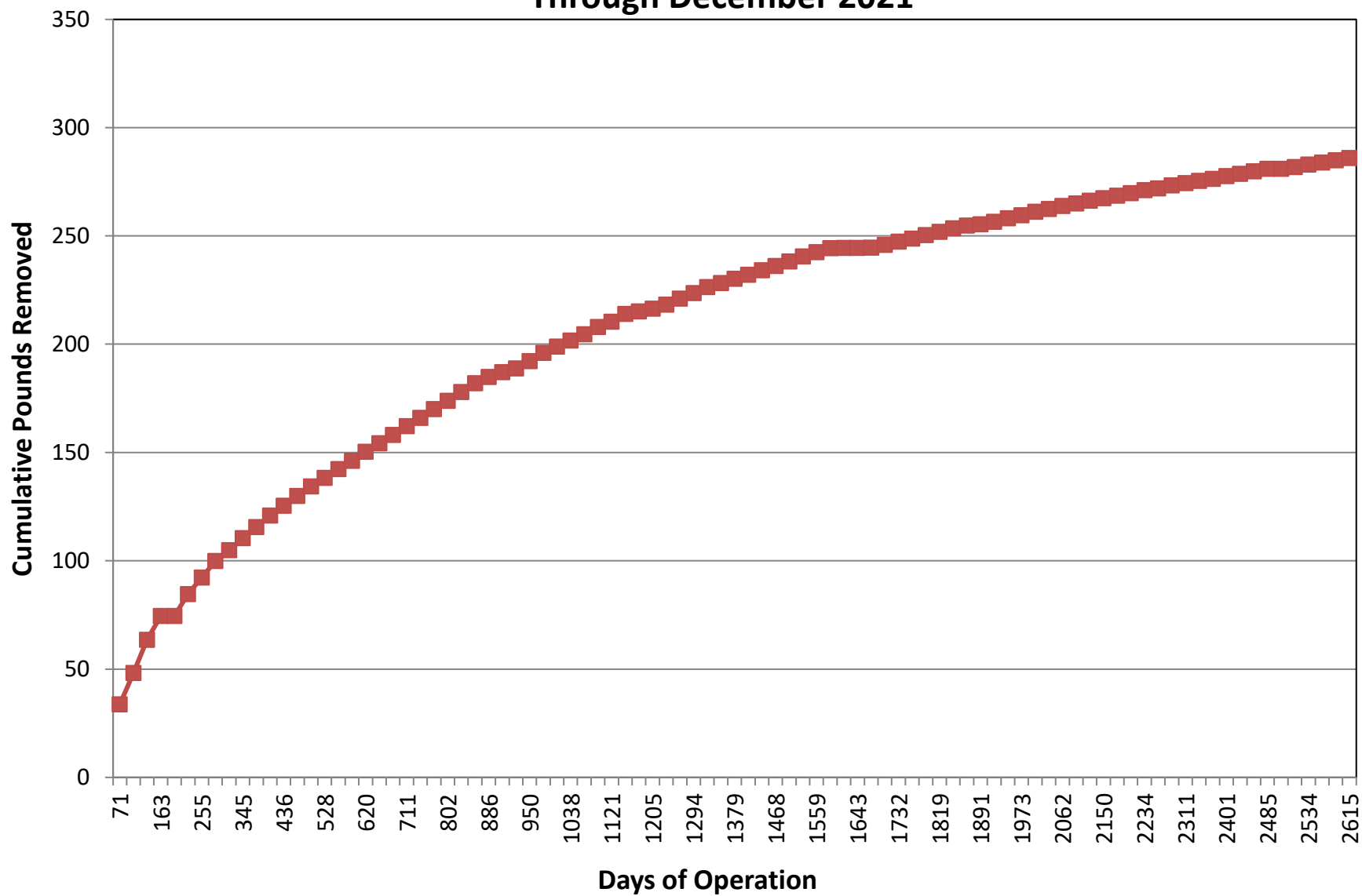
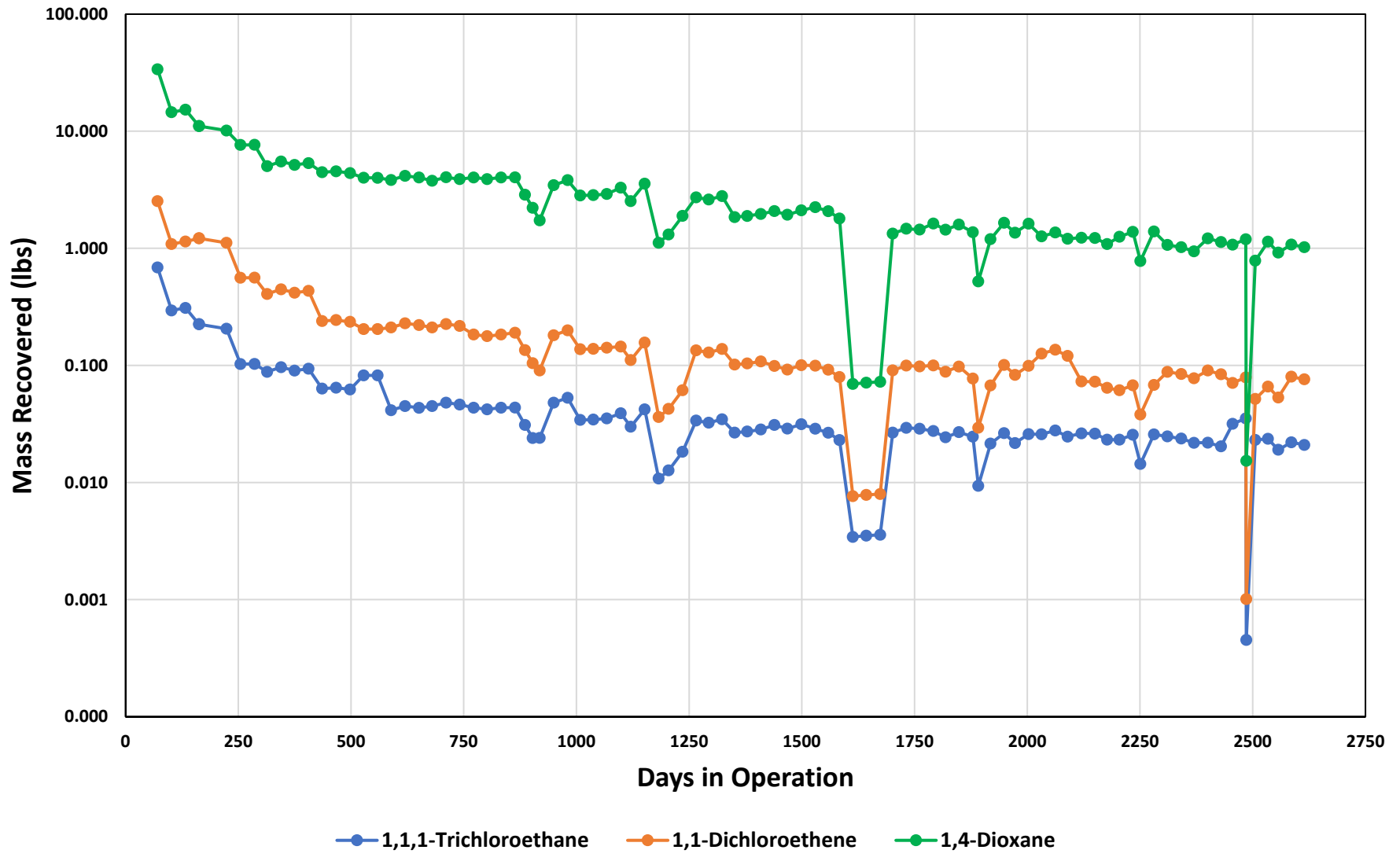


Figure 7
Mass Recovered Per Sampling Period
Through December 2021



TABLES

**TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

		MW-35	MW-10A	MW-10B	MW-10C	MW-30	MW-31
Constituent	MDEQ Tier I TRG *	KEP-GW-035-019	KEP-GW-010A-039	KEP-GW-010B-039	KEP-GW-010C-039	KEP-GW-030-025	KEP-GW-031-025
Sample Date		9/22/2021	9/21/2021	9/21/2021	9/21/2021	9/20/2021	9/21/2021
1,1,1-Trichloroethane (TCA)	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	798	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene (DCE)	7.0	<0.5	13	4.1	<0.5	1.1	1.4
1,2-Dichloroethane (EDC)	5.0	<0.5	0.57	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	6.09	3.3	52	16	<0.4	0.43	5.3
Chloroform**	0.155	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (PCE)	5.0	<0.5	<0.5	<0.5	0.67	<0.5	<0.5
Trichloroethene (TCE)	5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

All results/standards in units of µg/l - micrograms per liter

Bold indicates an exceedance

** MDEQ Target Remediation Goals (TRGs) for Groundwater*

*** Although the MDEQ risk based TRG for chloroform is 0.155 ug/L, the EPA Maximum Contaminant Level for Total Trihalomethanes is 80 ug/L with an individual MCL of 70 ug/L for chloroform.*

**TABLE 2
OBSERVATION WELL RELATIVE VOC CONCENTRATIONS RESULTS SUMMARY**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

OBSERVATION WELL PID RESULTS SUMMARY

Sample Date	SVE-OBS-1	SVE-OBS-2	SVE-OBS-3	SVE-OBS-4	SVE-OBS-5	SVE-OBS-7	SVE-OBS-8	SVE-OBS-9
9/16/2021	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0
12/29/2021	0.2	0.3	0.3	0.4	0.2	0.1	0.1	0.1

OBSERVATION WELL FID RESULTS SUMMARY

Sample Date	SVE-OBS-1	SVE-OBS-2	SVE-OBS-3	SVE-OBS-4	SVE-OBS-5	SVE-OBS-7	SVE-OBS-8	SVE-OBS-9
9/16/2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/29/2021	0.0	0.0	0.0	0.0	0.0	0.0	30.0	3.0

Notes:

All results in units of ppm - parts per million

SVE-OBS-6 has been plugged and abandoned

**TABLE 3
OBSERVATION WELL SOIL VAPOR ANALYTICAL RESULTS SUMMARY**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

Compound	SVE-OBS-1		SVE-OBS-2		SVE-OBS-3		SVE-OBS-4	
	9/16/2021	12/29/2021	9/16/2021	12/29/2021	9/16/2021	12/29/2021	9/16/2021	12/29/2021
1,1,1-Trichloroethane	0.32 J	0.86	0.083 J	0.31 J	0.1 J	0.29 J	0.13 J	0.24 J
1,1,2-Trichloroethane	<0.38	<0.48	<0.38	<0.37	<0.43	<0.36	<0.36	<0.38
1,1-Dichloroethane	<0.52	<0.66	<0.53	<0.5	<0.59	<0.5	<0.49	<0.52
1,1-Dichloroethene	<0.54	0.76	<0.55	0.27 J	<0.61	0.86	<0.51	<0.54
1,2-Dichloroethane	<0.52	<0.66	<0.53	<0.5	0.12 J	<0.5	<0.49	<0.52
1,4-Dioxane	0.087 J	0.095 J	<0.58	<0.56	<0.65	0.26 J	<0.54	<0.57
Carbon Tetrachloride	0.066 J	<0.4	0.049 J	0.055 J	<0.36	0.052 J	0.057 J	0.052 J

Compound	SVE-OBS-5		SVE-OBS-7		SVE-OBS-8		SVE-OBS-9	
	9/16/2021	12/29/2021	9/16/2021	12/29/2021	9/16/2021	12/29/2021	9/16/2021	12/29/2021
1,1,1-Trichloroethane	<0.38	0.18 J	1.2	0.39	1.2	2.2	0.8	0.75
1,1,2-Trichloroethane	<0.38	<0.45	<0.38	0.26 J	<0.26	<0.35	<0.24	<0.37
1,1-Dichloroethane	<0.52	<0.62	0.24 J	1.1	0.91	1.4	<0.33	<0.51
1,1-Dichloroethene	<0.55	<0.64	1.6	80	16	32	0.56	0.71
1,2-Dichloroethane	0.067 J	<0.62	<0.52	0.23 J	<0.35	0.28 J	<0.33	<0.51
1,4-Dioxane	0.14 J	<0.68	0.22 J	<0.56	<0.39	0.29 J	0.081 J	0.093 J
Carbon Tetrachloride	0.059 J	<0.37	0.063 J	0.1 J	0.032 J	0.057 J	0.043 J	0.058 J

Notes:

*All results in units of ppb - parts per billion
SVE-OBS-6 has been plugged and abandoned*

TABLE 4
SVE SYSTEM RELATIVE VOC CONCENTRATION MONITORING SUMMARY

SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS

Sample Date	Pre Carbon	Carbon Unit 1	Carbon Unit 2
	PID ppm		
9/30/2021	0.1	0.3	0.2
12/14/2021	0.2	0.1	0.1

Sample Date	Pre Carbon	Carbon Unit 1	Carbon Unit 2
	FID ppm		
9/30/2021	0.0	0.0	0.0
12/14/2021	0.0	0.0	0.0

Notes:

All results in units of ppm - parts per million

**TABLE 5
SVE SYSTEM EXHAUST ANALYTICAL SUMMARY**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

Compound	Pre Carbon		Post Carbon 1		Post Carbon 2	
	9/30/2021	12/14/2021	9/30/2021	12/14/2021	9/30/2021	12/14/2021
1,1,1-Trichloroethane	28	25	3.4	<2	<2.1	<2
1,1,2-Trichloroethane	0.81J	0.74J	<2.3	<2	<2.1	<2
1,1-Dichloroethane	2.2J	2.2	3.1	<2.1	<2.1	<2.1
1,1-Dichloroethene	79	92B	84	<2.1	63	<2.1
1,2-Dichloroethane	0.35J	0.38J	<2.3	<2.1	<2.1	<2.1
1,4-Dioxane	1400D	1200D	930D	130	11	3.1

Notes:

Results are in $\mu\text{g}/\text{m}^3$

D = The reported result is from a dilution.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

TABLE 6
SVE SYSTEM WELL FLOW RATE SUMMARY

SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS

Date	SVE-EXT-1	SVE-EXT-2	SVE-EXT-3
	Flow Rate SCFM		
7/6/2021	94.0	NM	NM
8/17/2021	109.8	75.0	106.1
9/16/2021	113.4	77.7	126.8
9/30/2021	113.4	72.3	126.8
10/13/2021	113.4	75.0	126.8
11/3/2021	113.4	72.3	126.8
11/27/2021	120.3	80.2	133.0
12/14/2021	113.4	69.5	126.8

Notes:

NM - Not Measured

Measuring equipment was damaged during the July sampling event.

**TABLE 7
QUARTERLY AMBIENT AIR MONITORING**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

Contaminant	OCCUPATIONAL STANDARDS			Air Mon 01-42	Air Mon 02-42	Air Mon 03-08	Air Mon 01-43	Air Mon 02-43	Air Mon 03-09
	OSHA	ACGIH	NIOSH	9/30/2021			12/13/2021		
1,1,1-Trichloroethane	1900000	1900000	1900000	<2.4	<2.4	<2.7	<2.4	<2.4	<2.3
1,1,2-Trichloroethane	45000	45000	45000	<2.4	<2.4	<2.7	<2.4	<2.4	<2.3
1,1-Dichloroethane	400000	400000	400000	<2.4	<2.5	<2.8	<2.5	<2.5	<2.3
1,1-Dichloroethene		19800		<2.5	<2.5	<2.8	<2.5	<2.5	<2.3
1,2-Dichloroethane	40450	40450	4000	<2.4	<2.5	<2.8	<2.5	<2.5	0.38 J
1,4-Dioxane	360000	72000		0.83 J	<2.4	0.41 J	<2.4	<2.4	<2.3
Carbon Tetrachloride	63000	31000	12600	0.39 J	0.42 J	0.41 J	0.44 J	0.44 J	0.39 J
1,2,4-Trichlorobenzene			40000	<5	<5.2	<5.8	<5.1	<5.1	<4.8
1,2,4-Trimethylbenzene		125000	125000	17	23	0.88 J	7.5	18	0.87 J
1,3,5-Trimethylbenzene		125000	125000	4.9	6.8	<2.7	2 J	5	<2.3
2-Butanone (MEK)	590000	590000	590000	34	34	4.4 J	33	30	15
2-Hexanone	410000	20480	4000	0.84 J	<5.2	<5.8	4.5 J	<5.1	0.57 J
2-Propanol (Isopropyl Alcohol)	980000	980000	980000	42	51	4.6 J	26	11	9.4
4-Ethyltoluene				4.2	5.5	<2.8	2 J	4.1	<2.3
4-Methyl-2-pentanone	410000	205000	205000	9.4	7	0.47 J	6.6	5.5	1.8 J
Acetone	2400000	1200000	590000	250	510	25 J	220	420	34
Acetonitrile	70000	70000	34000	0.87 J	<4.7	<5.3	<4.6	<4.6	0.74 J
Acrolein	250	0	250	1.7 J	0.75 J	1.5 J	2 J	1.2 J	0.87 J
Acrylonitrile	4340	4340	2170	1.3 J	<4.7	<5.3	<4.6	<4.6	<4.4
alpha-Pinene	556000	111000	556000	11	5.2	6.7	12 V	5.9 V	4.6 V
Benzene	3200	1600	320	0.64 J	1.6 J	<2.6	1.1 J	1.1 J	0.89 J
Carbon Disulfide	60000	30000	3000	3.1 J	1.1 J	14	<5.1	<5.1	4 J
Chloroethane	2600000	263700		0.39 J	<2.4	<2.7	<2.4	<2.4	<2.2
Chloromethane	207000	103000		1.1 J	1 J	1.2 J	0.99 J	0.95 J	0.84 J
Cumene	245000	245000	245000	0.86 J	1.2 J	<2.7	0.73 J	1.5 J	<2.3
Cyclohexane	1050000	344000	1050000	<5	2.1 J	<5.8	<5.1	<5.1	<4.8
Dichlorodifluoromethane (CFC 12)	4950000	4950000	4950000	2.1 J	2.1 J	2.2 J	2.6	2.4 J	2.5
d-Limonene				10	3	5	12	5.3	3.6
Ethanol	1900000	1900000	1900000	960	440	55	470	200	52
Ethyl Acetate	1400000	1400000	1400000	9.3 J	4.4 J	1.8 J	6.8 J	5.1 J	29
Ethylbenzene	435000	435000	435000	20	35	0.77 J	18	53	2.3
m,p-Xylenes	435000	435000	435000	79	160	2.3 J	72	230	8.2
Methylene Chloride	87000	174000		<2.4	<2.4	<2.7	<2.4	<2.4	0.74 J
Naphthalene	50000	50000	50000	1.7 J	3.9	<2.7	3.9	4.8	<2.3
n-Butyl Acetate	710000	710000	710000	7.4	20	0.95 J	8.5	13	7.2
n-Heptane	2000000	1640000	350000	2 J	4.3	<2.8	2.6	2.2 J	0.85 J
n-Hexane	1800000	180000	180000	2.3 J	2.4 J	<2.8	<2.5	<2.5	<2.3
n-Nonane		1050000	1050000	0.97 J	2.1 J	<2.7	2.7	2.7	0.78 J
n-Octane	2350000	1400000	350000	0.57 J	3.1	<2.8	1.5 J	2 J	0.66 J
n-Propylbenzene				3.2	4.1	<2.8	<2.5	3.8	<2.3
o-Xylene	435000	435000	435000	25	47	0.77 J	21	65	2.6
Propene				1500 D	140	4.9	940 D	150	<2.3

TABLE 7
QUARTERLY AMBIENT AIR MONITORING

SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS

Contaminant	OCCUPATIONAL STANDARDS			Air Mon 01-42	Air Mon 02-42	Air Mon 03-08	Air Mon 01-43	Air Mon 02-43	Air Mon 03-09
	OSHA	ACGIH	NIOSH	9/30/2021			12/13/2021		
Styrene	425000	85200	215000	1.7 J	1.5 J	0.86 J	1 J	1 J	<2.2
Tetrachloroethene	678000	169500		5.3	0.4 J	<2.7	<2.4	0.62 J	2.5
Tetrahydrofuran (THF)	590000	590000	590000	0.66 J	0.86 J	0.93 J	14	37	1.7 J
Toluene	750000	188000	375000	34	31	1.6 J	34	17	12
Trichloroethene	537000	268500		<2.4	<2.4	<2.7	<2.4	<2.4	<2.3
Trichlorofluoromethane (CFC 11)	5600000		5600000	1.1 J	1 J	1 J	1.2 J	1.2 J	1.2 J
Trichlorotrifluoroethane (CFC 113)	7600000	7600000	7600000	0.45 J	0.44 J	0.4 J	0.51 J	0.5 J	0.48 J
Vinyl Acetate		35000	15000	6.8 J	<24	7.9 J	<23	<23	<22

Notes:

All results/standards are in $\mu\text{g}/\text{m}^3$

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

**TABLE 8
OBSERVATION WELL VACUUM RESPONSE SUMMARY**

**SVE 2nd Semiannual Sampling 2021
Kuhlman Electric Corporation
Crystal Springs, MS**

Date	SVE-OBS-1	SVE-OBS-2	SVE-OBS-3	SVE-OBS-4	SVE-OBS-5	SVE-OBS-7	SVE-OBS-8	SVE-OBS-9
Distance* (feet)	5	10	20	40	80	50	95	80
8/13/2021	-16.6	-10.3	-8.95	-3.4	NM**	-6.3	-0.2	-2.7
12/14/2021	-15.13	-9.29	-7.86	-2.79	-1.36	-5.45	-0.23	-2.38

Notes:

* Distance to the nearest extraction well

** Access to SVE-OBS-5 was blocked during the August sampling event.

Vacuum readings are in inches of water.

APPENDIX A

OBSERVATION WELL SOIL VAPOR LABORATORY ANALYTICAL RESULTS



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

October 22, 2021

Collin Creel
Environmental Management Services, Inc.
PO Box 15369
Hattiesburg, MS 39402

RE: SVE Performance Monitoring / KUH0-21-010

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on October 4, 2021. For your reference, these analyses have been assigned our service request number P2105213.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 2:44 pm, Oct 22, 2021

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Environmental Management Services, Inc.
Project: SVE Performance Monitoring / KUH0-21-010

Service Request No: P2105213

CASE NARRATIVE

The samples were received intact under chain of custody on October 4, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Some of the duplicate Relative Percent Difference (RPD) recoveries exceeded the acceptance criteria. All other quality controls were acceptable. The data has been flagged accordingly.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
 Project ID: SVE Performance Monitoring / KUH0-21-010

Service Request: P2105213

Date Received: 10/4/2021
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SVE-OBS-01	P2105213-001	Air	9/16/2021	12:26	1SC00812	-0.84	7.31	X
SVE-OBS-02	P2105213-002	Air	9/16/2021	12:34	1SC00723	-1.22	7.01	X
SVE-OBS-03	P2105213-003	Air	9/16/2021	12:38	1SC00441	-2.39	7.41	X
SVE-OBS-04	P2105213-004	Air	9/16/2021	12:45	1SC01196	-0.42	6.85	X
SVE-OBS-05	P2105213-005	Air	9/16/2021	12:53	1SS00747	-0.78	7.52	X
SVE-OBS-07	P2105213-006	Air	9/16/2021	13:08	1SC00008	-0.79	7.27	X
SVE-OBS-08	P2105213-007	Air	9/16/2021	13:14	1SC00886	-1.10	7.34	X
SVE-OBS-09	P2105213-008	Air	9/16/2021	13:20	1SS01224	-0.35	7.24	X
SVE-EXT-01	P2105213-009	Air	9/16/2021	14:00	1SC00449	-0.95	7.19	X
SVE-EXT-02	P2105213-010	Air	9/16/2021	14:08	1SC00586	-0.59	7.40	X
SVE-EXT-03	P2105213-011	Air	9/16/2021	14:13	1SS01129	-3.80	7.49	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 6 Day (20%) 7 Day (15%) 8 Day (10%) 9 Day (5%) 10 Day (Standard)

ALS Project No. P2105213
 ALS Contact:

Company Name & Address (Reporting Information)
ALS
 P.O. Box 15369
 Fort Collins, CO 80501

Project Manager
Collin Creel

Phone
9855160142

Fax

Email Address for Result Reporting
ccreele@env-mgt.com

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sampler (Print & Sign)		Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method	Comments e.g. Actual Preservative or specific instructions
				Canister ID	Flow Controller ID							
SVE-OBS-01	1	9/16/21	12:26	15C00812	Collin Creel			-30	0	1L	To 15	
SVE-OBS-02	2	9/16/21	12:34	15C00723				-30	0	1L		
SVE-OBS-03	3	9/16/21	12:38	15C00441				-30	0	1L		
SVE-OBS-04	4	9/16/21	12:45	15C01196				-30	0	1L		
SVE-OBS-05	5	9/16/21	12:53	15S00747				-28	0	1L		
SVE-OBS-07	7	9/16/21	13:08	15C00008				-30	0	1L		
SVE-OBS-08	8	9/16/21	13:15	15C00886				-27	0	1L		
SVE-OBS-09	9	9/16/21	13:20	15S01224				-30	0	1L		
SVE-EXT-01	10	9/16/21	14:00	15C00449				-28	0	1L		
SVE-EXT-02	11	9/16/21	14:08	15C00586				-25	0	1L		
SVE-EXT-03		9/16/21	14:13	15S01129				-29	0	1L		

Project Name
SVE Performance Monitoring

Project Number
KUHO-21-010

P.O. # / Billing Information
KUHO-21-010 / Same as reporting

Chain of Custody Seal: (Circle)
 INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) Collin Creel Date: 9/16/21 Time: 11:00

Relinquished by: (Signature) Collin Creel Date: 10-16-21 Time: 0730

Received by: (Signature) Collin Creel Date: 10-16-21 Time: 0730

Received by: (Signature) Collin Creel Date: 10-16-21 Time: 0730

Units: _____

EDD required Yes / No _____ Type: _____

**ALS Environmental
Sample Acceptance Check Form**

Client: Environmental Management Services, Inc.

Work order: P2105213

Project: SVE Performance Monitoring / KUH0-21-010

Sample(s) received on: 10/4/21

Date opened: 10/4/21

by: DENISE.POSADA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2105213-001.01	1.0 L Source Can					
P2105213-002.01	1.0 L Source Can					
P2105213-003.01	1.0 L Source Can					
P2105213-004.01	1.0 L Source Can					
P2105213-005.01	1.0 L Source Silonite Canister					
P2105213-006.01	1.0 L Source Can					
P2105213-007.01	1.0 L Source Can					
P2105213-008.01	1.0 L Source Silonite Canister					
P2105213-009.01	1.0 L Source Can					
P2105213-010.01	1.0 L Source Can					
P2105213-011.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-01

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00812

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -0.84 Final Pressure (psig): 7.31

Canister Dilution Factor: 1.59

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	550	21	5.2	320	12	3.0	D
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.1	0.35	0.43	0.43	0.070	
74-87-3	Chloromethane	0.59	2.0	0.34	0.29	0.98	0.17	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.31	0.048	
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.81	0.089	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.93	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.52	0.076	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.77	0.099	
64-17-5	Ethanol	44	20	1.5	24	11	0.78	
75-05-8	Acetonitrile	ND	4.0	0.52	ND	2.4	0.31	
107-02-8	Acrolein	3.2	4.0	0.60	1.4	1.7	0.26	J
67-64-1	Acetone	21	21	4.8	8.8	8.7	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.1	0.32	0.20	0.37	0.057	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.0	4.0	0.87	1.6	1.6	0.36	
107-13-1	Acrylonitrile	ND	4.0	0.44	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	ND	2.1	0.29	ND	0.54	0.074	
75-09-2	Methylene Chloride	ND	2.1	0.60	ND	0.60	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.29	ND	0.67	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.53	2.1	0.30	0.069	0.28	0.039	J
75-15-0	Carbon Disulfide	10	4.4	0.64	3.3	1.4	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.53	0.074	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.52	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.58	0.069	
108-05-4	Vinyl Acetate	9.5	20	4.8	2.7	5.6	1.4	J
78-93-3	2-Butanone (MEK)	11	4.0	0.44	3.8	1.3	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-01

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00812

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -0.84 Final Pressure (psig): 7.31

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.52	0.075	
141-78-6	Ethyl Acetate	4.0	8.3	1.1	1.1	2.3	0.31	J
110-54-3	n-Hexane	6.0	2.1	0.44	1.7	0.60	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.44	0.058	
109-99-9	Tetrahydrofuran (THF)	11	4.0	0.27	3.8	1.3	0.090	
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.52	0.058	
71-55-6	1,1,1-Trichloroethane	1.7	2.1	0.26	0.32	0.38	0.048	J
71-43-2	Benzene	0.34	2.0	0.31	0.11	0.62	0.096	J
56-23-5	Carbon Tetrachloride	0.41	2.0	0.29	0.066	0.32	0.047	J
110-82-7	Cyclohexane	1.6	4.4	0.60	0.47	1.3	0.17	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.43	0.057	
75-27-4	Bromodichloromethane	ND	2.1	0.31	ND	0.31	0.046	
79-01-6	Trichloroethene	ND	2.1	0.29	ND	0.38	0.053	
123-91-1	1,4-Dioxane	0.31	2.1	0.25	0.087	0.57	0.070	J
80-62-6	Methyl Methacrylate	ND	4.4	0.76	ND	1.1	0.18	
142-82-5	n-Heptane	ND	2.1	0.34	ND	0.51	0.082	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.073	
108-10-1	4-Methyl-2-pentanone	1.5	4.4	0.29	0.37	1.1	0.071	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.44	ND	0.45	0.096	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.21	ND	0.38	0.039	
108-88-3	Toluene	14	2.1	0.26	3.8	0.55	0.069	
591-78-6	2-Hexanone	ND	4.4	0.26	ND	1.1	0.064	
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.033	
106-93-4	1,2-Dibromoethane	ND	2.1	0.25	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	3.0	4.4	0.29	0.64	0.92	0.061	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-01

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-001

Test Code: EPA TO-15

Date Collected: 9/16/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/4/21

Analyst: Wida Ang

Date Analyzed: 10/14/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00812

Initial Pressure (psig): -0.84 Final Pressure (psig): 7.31

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.63	2.1	0.48	0.14	0.45	0.10	J
127-18-4	Tetrachloroethene	2.8	2.1	0.27	0.41	0.30	0.040	
108-90-7	Chlorobenzene	ND	2.1	0.28	ND	0.45	0.061	
100-41-4	Ethylbenzene	4.1	2.1	0.30	0.95	0.48	0.069	
179601-23-1	m,p-Xylenes	16	4.4	0.56	3.6	1.0	0.13	
75-25-2	Bromoform	ND	2.1	0.44	ND	0.20	0.042	
100-42-5	Styrene	2.6	2.0	0.34	0.62	0.47	0.080	
95-47-6	o-Xylene	6.1	2.1	0.31	1.4	0.48	0.070	
111-84-2	n-Nonane	0.62	2.1	0.35	0.12	0.39	0.067	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.29	ND	0.30	0.043	
98-82-8	Cumene	ND	2.1	0.31	ND	0.42	0.062	
80-56-8	alpha-Pinene	1.9	2.1	0.33	0.35	0.39	0.059	J
103-65-1	n-Propylbenzene	0.92	2.1	0.31	0.19	0.43	0.062	J
622-96-8	4-Ethyltoluene	1.3	2.1	0.34	0.26	0.43	0.069	J
108-67-8	1,3,5-Trimethylbenzene	1.6	2.1	0.31	0.32	0.42	0.062	J
95-63-6	1,2,4-Trimethylbenzene	5.4	2.1	0.29	1.1	0.42	0.060	
100-44-7	Benzyl Chloride	ND	4.4	0.48	ND	0.84	0.092	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.34	0.053	
106-46-7	1,4-Dichlorobenzene	0.39	2.1	0.33	0.065	0.34	0.054	J
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.35	0.052	
5989-27-5	d-Limonene	14	2.0	0.44	2.6	0.36	0.079	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.52	ND	0.59	0.070	
91-20-3	Naphthalene	0.83	2.1	0.52	0.16	0.39	0.099	J
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ND	0.19	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00723

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 7.01

Canister Dilution Factor: 1.61

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	650	21	5.2	380	12	3.0	D
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.1	0.35	0.42	0.43	0.071	J
74-87-3	Chloromethane	1.5	2.1	0.35	0.75	0.99	0.17	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.2	0.34	ND	0.31	0.048	
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.82	0.090	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.95	0.16	
74-83-9	Bromomethane	ND	2.1	0.30	ND	0.53	0.077	
75-00-3	Chloroethane	ND	2.1	0.27	ND	0.78	0.10	
64-17-5	Ethanol	56	20	1.5	30	11	0.79	
75-05-8	Acetonitrile	0.83	4.0	0.52	0.49	2.4	0.31	J
107-02-8	Acrolein	3.7	4.0	0.60	1.6	1.8	0.26	J
67-64-1	Acetone	61	21	4.8	26	8.8	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.1	0.33	0.18	0.37	0.058	J
67-63-0	2-Propanol (Isopropyl Alcohol)	9.5	4.0	0.89	3.9	1.6	0.36	
107-13-1	Acrylonitrile	ND	4.0	0.44	ND	1.9	0.20	
75-35-4	1,1-Dichloroethene	ND	2.2	0.30	ND	0.55	0.075	
75-09-2	Methylene Chloride	ND	2.1	0.60	ND	0.60	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.29	ND	0.68	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.47	2.2	0.31	0.062	0.28	0.040	J
75-15-0	Carbon Disulfide	1.8	4.4	0.64	0.59	1.4	0.21	J
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.30	ND	0.54	0.075	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.53	0.078	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.59	0.070	
108-05-4	Vinyl Acetate	15	20	4.8	4.2	5.7	1.4	J
78-93-3	2-Butanone (MEK)	19	4.0	0.44	6.3	1.4	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00723

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 7.01

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.53	0.076	
141-78-6	Ethyl Acetate	25	8.5	1.1	6.9	2.3	0.31	
110-54-3	n-Hexane	6.0	2.1	0.44	1.7	0.61	0.13	
67-66-3	Chloroform	ND	2.2	0.29	ND	0.45	0.059	
109-99-9	Tetrahydrofuran (THF)	9.6	4.0	0.27	3.3	1.4	0.091	
107-06-2	1,2-Dichloroethane	ND	2.1	0.24	ND	0.53	0.059	
71-55-6	1,1,1-Trichloroethane	0.45	2.1	0.27	0.083	0.38	0.049	J
71-43-2	Benzene	0.52	2.0	0.31	0.16	0.63	0.097	J
56-23-5	Carbon Tetrachloride	0.31	2.0	0.30	0.049	0.32	0.047	J
110-82-7	Cyclohexane	1.7	4.4	0.60	0.50	1.3	0.18	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.27	ND	0.44	0.058	
75-27-4	Bromodichloromethane	ND	2.1	0.31	ND	0.32	0.046	
79-01-6	Trichloroethene	1.2	2.1	0.29	0.22	0.39	0.054	J
123-91-1	1,4-Dioxane	ND	2.1	0.25	ND	0.58	0.070	
80-62-6	Methyl Methacrylate	ND	4.4	0.76	ND	1.1	0.19	
142-82-5	n-Heptane	0.74	2.1	0.34	0.18	0.52	0.084	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.074	
108-10-1	4-Methyl-2-pentanone	2.8	4.4	0.29	0.68	1.1	0.072	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.44	ND	0.45	0.098	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.22	ND	0.38	0.040	
108-88-3	Toluene	24	2.1	0.26	6.4	0.56	0.069	
591-78-6	2-Hexanone	ND	4.4	0.27	ND	1.1	0.065	
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.033	
106-93-4	1,2-Dibromoethane	ND	2.1	0.25	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	3.5	4.4	0.29	0.73	0.93	0.062	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00723

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 7.01

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.76	2.1	0.48	0.16	0.46	0.10	J
127-18-4	Tetrachloroethene	3.1	2.1	0.28	0.46	0.31	0.041	
108-90-7	Chlorobenzene	ND	2.1	0.29	ND	0.45	0.062	
100-41-4	Ethylbenzene	4.8	2.1	0.30	1.1	0.48	0.070	
179601-23-1	m,p-Xylenes	18	4.4	0.56	4.2	1.0	0.13	
75-25-2	Bromoform	ND	2.1	0.44	ND	0.20	0.043	
100-42-5	Styrene	2.7	2.0	0.35	0.63	0.47	0.081	
95-47-6	o-Xylene	6.9	2.1	0.31	1.6	0.48	0.071	
111-84-2	n-Nonane	0.73	2.1	0.36	0.14	0.40	0.068	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.30	ND	0.30	0.043	
98-82-8	Cumene	0.33	2.1	0.31	0.068	0.43	0.063	J
80-56-8	alpha-Pinene	3.3	2.2	0.33	0.60	0.39	0.059	
103-65-1	n-Propylbenzene	1.0	2.1	0.31	0.20	0.43	0.063	J
622-96-8	4-Ethyltoluene	1.3	2.1	0.34	0.26	0.43	0.070	J
108-67-8	1,3,5-Trimethylbenzene	1.6	2.1	0.31	0.33	0.43	0.063	J
95-63-6	1,2,4-Trimethylbenzene	5.4	2.1	0.30	1.1	0.43	0.061	
100-44-7	Benzyl Chloride	ND	4.4	0.48	ND	0.86	0.093	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.054	
106-46-7	1,4-Dichlorobenzene	0.36	2.1	0.33	0.060	0.35	0.055	J
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.053	
5989-27-5	d-Limonene	15	2.0	0.44	2.6	0.36	0.079	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.42	0.042	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.52	ND	0.60	0.071	
91-20-3	Naphthalene	2.0	2.1	0.52	0.38	0.40	0.10	J
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ND	0.20	0.042	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-03
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00441

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 7.41

Canister Dilution Factor: 1.80

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	140	2.3	0.59	79	1.4	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.4	0.39	0.42	0.48	0.079	J
74-87-3	Chloromethane	1.1	2.3	0.39	0.52	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.4	0.38	ND	0.35	0.054	
75-01-4	Vinyl Chloride	ND	2.3	0.26	ND	0.92	0.10	
106-99-0	1,3-Butadiene	ND	2.3	0.40	ND	1.1	0.18	
74-83-9	Bromomethane	ND	2.3	0.33	ND	0.59	0.086	
75-00-3	Chloroethane	0.44	2.3	0.30	0.17	0.87	0.11	J
64-17-5	Ethanol	330	23	1.7	170	12	0.88	
75-05-8	Acetonitrile	2.2	4.5	0.59	1.3	2.7	0.35	J
107-02-8	Acrolein	3.7	4.5	0.68	1.6	2.0	0.29	J
67-64-1	Acetone	200	23	5.4	84	9.9	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.3	0.36	0.19	0.42	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	23	4.5	0.99	9.5	1.8	0.40	
107-13-1	Acrylonitrile	ND	4.5	0.50	ND	2.1	0.23	
75-35-4	1,1-Dichloroethene	ND	2.4	0.33	ND	0.61	0.084	
75-09-2	Methylene Chloride	ND	2.3	0.68	ND	0.67	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.4	0.32	ND	0.76	0.10	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.52	2.4	0.34	0.068	0.32	0.045	J
75-15-0	Carbon Disulfide	1.4	5.0	0.72	0.45	1.6	0.23	J
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.33	ND	0.60	0.084	
75-34-3	1,1-Dichloroethane	ND	2.4	0.35	ND	0.59	0.087	
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	0.28	ND	0.66	0.079	
108-05-4	Vinyl Acetate	31	23	5.4	8.9	6.4	1.5	
78-93-3	2-Butanone (MEK)	80	4.5	0.50	27	1.5	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-03
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00441

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 7.41

Canister Dilution Factor: 1.80

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.34	ND	0.59	0.085	
141-78-6	Ethyl Acetate	570	9.5	1.3	160	2.6	0.35	
110-54-3	n-Hexane	3.4	2.4	0.50	0.97	0.68	0.14	
67-66-3	Chloroform	0.63	2.4	0.32	0.13	0.50	0.065	J
109-99-9	Tetrahydrofuran (THF)	9.9	4.5	0.30	3.4	1.5	0.10	
107-06-2	1,2-Dichloroethane	0.49	2.4	0.27	0.12	0.59	0.066	J
71-55-6	1,1,1-Trichloroethane	0.55	2.3	0.30	0.10	0.43	0.054	J
71-43-2	Benzene	2.9	2.3	0.35	0.90	0.70	0.11	
56-23-5	Carbon Tetrachloride	ND	2.3	0.33	ND	0.36	0.053	
110-82-7	Cyclohexane	2.4	5.0	0.68	0.71	1.4	0.20	J
78-87-5	1,2-Dichloropropane	ND	2.3	0.30	ND	0.49	0.064	
75-27-4	Bromodichloromethane	ND	2.4	0.35	ND	0.36	0.052	
79-01-6	Trichloroethene	ND	2.3	0.32	ND	0.44	0.060	
123-91-1	1,4-Dioxane	ND	2.3	0.28	ND	0.65	0.079	
80-62-6	Methyl Methacrylate	ND	5.0	0.86	ND	1.2	0.21	
142-82-5	n-Heptane	3.0	2.4	0.38	0.73	0.58	0.093	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.37	ND	0.50	0.082	
108-10-1	4-Methyl-2-pentanone	3.6	5.0	0.33	0.87	1.2	0.080	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.50	ND	0.51	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.24	ND	0.43	0.045	
108-88-3	Toluene	69	2.3	0.29	18	0.62	0.078	
591-78-6	2-Hexanone	9.5	5.0	0.30	2.3	1.2	0.073	
124-48-1	Dibromochloromethane	ND	2.4	0.32	ND	0.28	0.037	
106-93-4	1,2-Dibromoethane	ND	2.3	0.28	ND	0.30	0.036	
123-86-4	n-Butyl Acetate	4.8	5.0	0.33	1.0	1.0	0.069	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00441

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 7.41

Canister Dilution Factor: 1.80

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.9	2.4	0.54	0.40	0.51	0.12	J
127-18-4	Tetrachloroethene	1.9	2.3	0.31	0.28	0.35	0.046	J
108-90-7	Chlorobenzene	ND	2.3	0.32	ND	0.51	0.069	
100-41-4	Ethylbenzene	4.2	2.3	0.34	0.96	0.54	0.078	
179601-23-1	m,p-Xylenes	14	5.0	0.63	3.1	1.1	0.15	
75-25-2	Bromoform	ND	2.3	0.50	ND	0.23	0.048	
100-42-5	Styrene	2.6	2.3	0.39	0.62	0.53	0.091	
95-47-6	o-Xylene	5.4	2.3	0.35	1.2	0.54	0.080	
111-84-2	n-Nonane	0.90	2.3	0.40	0.17	0.45	0.076	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.33	ND	0.34	0.049	
98-82-8	Cumene	ND	2.3	0.35	ND	0.48	0.071	
80-56-8	alpha-Pinene	5.3	2.4	0.37	0.95	0.44	0.066	
103-65-1	n-Propylbenzene	0.55	2.4	0.35	0.11	0.49	0.071	J
622-96-8	4-Ethyltoluene	0.59	2.4	0.38	0.12	0.49	0.078	J
108-67-8	1,3,5-Trimethylbenzene	0.77	2.3	0.35	0.16	0.48	0.071	J
95-63-6	1,2,4-Trimethylbenzene	2.0	2.3	0.33	0.41	0.48	0.068	J
100-44-7	Benzyl Chloride	ND	5.0	0.54	ND	0.96	0.10	
541-73-1	1,3-Dichlorobenzene	ND	2.3	0.36	ND	0.39	0.060	
106-46-7	1,4-Dichlorobenzene	ND	2.3	0.37	ND	0.39	0.061	
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.36	ND	0.40	0.059	
5989-27-5	d-Limonene	5.7	2.3	0.50	1.0	0.40	0.089	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	0.45	ND	0.47	0.047	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.59	ND	0.67	0.079	
91-20-3	Naphthalene	ND	2.3	0.59	ND	0.45	0.11	
87-68-3	Hexachlorobutadiene	ND	2.3	0.50	ND	0.22	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01196

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.42 Final Pressure (psig): 6.85

Canister Dilution Factor: 1.51

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	61	2.0	0.49	35	1.1	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.0	0.33	0.42	0.40	0.066	
74-87-3	Chloromethane	0.60	1.9	0.32	0.29	0.93	0.16	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.32	ND	0.29	0.045	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.77	0.084	
106-99-0	1,3-Butadiene	ND	2.0	0.33	ND	0.89	0.15	
74-83-9	Bromomethane	ND	1.9	0.28	ND	0.50	0.072	
75-00-3	Chloroethane	ND	1.9	0.25	ND	0.73	0.094	
64-17-5	Ethanol	270	19	1.4	150	10	0.74	
75-05-8	Acetonitrile	0.62	3.8	0.49	0.37	2.2	0.29	J
107-02-8	Acrolein	1.2	3.8	0.57	0.53	1.6	0.25	J
67-64-1	Acetone	19	20	4.5	8.1	8.3	1.9	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.0	0.31	0.18	0.35	0.054	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	3.8	0.83	0.78	1.5	0.34	J
107-13-1	Acrylonitrile	ND	3.8	0.42	ND	1.7	0.19	
75-35-4	1,1-Dichloroethene	ND	2.0	0.28	ND	0.51	0.070	
75-09-2	Methylene Chloride	ND	2.0	0.57	ND	0.57	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.27	ND	0.64	0.087	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.57	2.0	0.29	0.075	0.27	0.037	J
75-15-0	Carbon Disulfide	0.74	4.2	0.60	0.24	1.3	0.19	J
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.28	ND	0.50	0.070	
75-34-3	1,1-Dichloroethane	ND	2.0	0.29	ND	0.49	0.073	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.24	ND	0.56	0.066	
108-05-4	Vinyl Acetate	ND	19	4.5	ND	5.4	1.3	
78-93-3	2-Butanone (MEK)	21	3.8	0.42	7.2	1.3	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01196

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.42 Final Pressure (psig): 6.85

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.28	ND	0.50	0.071	
141-78-6	Ethyl Acetate	ND	7.9	1.1	ND	2.2	0.29	
110-54-3	n-Hexane	1.1	2.0	0.42	0.31	0.57	0.12	J
67-66-3	Chloroform	ND	2.0	0.27	ND	0.42	0.055	
109-99-9	Tetrahydrofuran (THF)	7.3	3.8	0.25	2.5	1.3	0.086	
107-06-2	1,2-Dichloroethane	ND	2.0	0.22	ND	0.49	0.055	
71-55-6	1,1,1-Trichloroethane	0.73	2.0	0.25	0.13	0.36	0.046	J
71-43-2	Benzene	0.31	1.9	0.29	0.097	0.59	0.091	J
56-23-5	Carbon Tetrachloride	0.36	1.9	0.28	0.057	0.30	0.044	J
110-82-7	Cyclohexane	ND	4.2	0.57	ND	1.2	0.16	
78-87-5	1,2-Dichloropropane	ND	1.9	0.25	ND	0.41	0.054	
75-27-4	Bromodichloromethane	ND	2.0	0.29	ND	0.30	0.043	
79-01-6	Trichloroethene	ND	2.0	0.27	ND	0.37	0.051	
123-91-1	1,4-Dioxane	ND	2.0	0.24	ND	0.54	0.066	
80-62-6	Methyl Methacrylate	ND	4.2	0.72	ND	1.0	0.18	
142-82-5	n-Heptane	0.33	2.0	0.32	0.081	0.49	0.078	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.31	ND	0.42	0.069	
108-10-1	4-Methyl-2-pentanone	3.4	4.2	0.28	0.83	1.0	0.067	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.42	ND	0.42	0.092	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.20	ND	0.36	0.037	
108-88-3	Toluene	11	2.0	0.25	2.9	0.52	0.065	
591-78-6	2-Hexanone	ND	4.2	0.25	ND	1.0	0.061	
124-48-1	Dibromochloromethane	ND	2.0	0.26	ND	0.23	0.031	
106-93-4	1,2-Dibromoethane	ND	2.0	0.23	ND	0.26	0.030	
123-86-4	n-Butyl Acetate	14	4.2	0.28	3.0	0.87	0.058	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-004

Test Code: EPA TO-15

Date Collected: 9/16/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/4/21

Analyst: Wida Ang

Date Analyzed: 10/14/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01196

Initial Pressure (psig): -0.42 Final Pressure (psig): 6.85

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.0	0.45	ND	0.43	0.097	
127-18-4	Tetrachloroethene	2.4	2.0	0.26	0.36	0.29	0.038	
108-90-7	Chlorobenzene	ND	2.0	0.27	ND	0.43	0.058	
100-41-4	Ethylbenzene	6.6	2.0	0.28	1.5	0.45	0.065	
179601-23-1	m,p-Xylenes	24	4.2	0.53	5.5	0.96	0.12	
75-25-2	Bromoform	ND	2.0	0.42	ND	0.19	0.040	
100-42-5	Styrene	1.6	1.9	0.32	0.39	0.44	0.076	J
95-47-6	o-Xylene	8.4	2.0	0.29	1.9	0.45	0.067	
111-84-2	n-Nonane	0.57	2.0	0.34	0.11	0.37	0.064	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.28	ND	0.29	0.041	
98-82-8	Cumene	0.45	2.0	0.29	0.092	0.40	0.059	J
80-56-8	alpha-Pinene	1.9	2.0	0.31	0.33	0.37	0.056	J
103-65-1	n-Propylbenzene	1.3	2.0	0.29	0.27	0.41	0.059	J
622-96-8	4-Ethyltoluene	1.8	2.0	0.32	0.36	0.41	0.065	J
108-67-8	1,3,5-Trimethylbenzene	2.3	2.0	0.29	0.47	0.40	0.059	
95-63-6	1,2,4-Trimethylbenzene	7.0	2.0	0.28	1.4	0.40	0.057	
100-44-7	Benzyl Chloride	ND	4.2	0.45	ND	0.80	0.088	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ND	0.33	0.050	
106-46-7	1,4-Dichlorobenzene	0.37	2.0	0.31	0.061	0.33	0.052	J
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.30	ND	0.33	0.050	
5989-27-5	d-Limonene	12	1.9	0.42	2.1	0.34	0.075	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.38	ND	0.39	0.039	
120-82-1	1,2,4-Trichlorobenzene	0.55	4.2	0.49	0.074	0.56	0.066	J
91-20-3	Naphthalene	0.92	2.0	0.49	0.18	0.37	0.094	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ND	0.18	0.039	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-05

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00747

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.78 Final Pressure (psig): 7.52

Canister Dilution Factor: 1.60

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	78	2.1	0.52	45	1.2	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.1	0.35	0.43	0.43	0.070	
74-87-3	Chloromethane	0.67	2.0	0.34	0.32	0.99	0.17	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.2	0.34	ND	0.31	0.048	
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.81	0.089	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.94	0.16	
74-83-9	Bromomethane	ND	2.0	0.30	ND	0.53	0.076	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.77	0.10	
64-17-5	Ethanol	110	20	1.5	57	11	0.79	
75-05-8	Acetonitrile	ND	4.0	0.52	ND	2.4	0.31	
107-02-8	Acrolein	1.7	4.0	0.60	0.76	1.7	0.26	J
67-64-1	Acetone	39	21	4.8	17	8.8	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.1	0.32	0.18	0.37	0.058	J
67-63-0	2-Propanol (Isopropyl Alcohol)	12	4.0	0.88	5.0	1.6	0.36	
107-13-1	Acrylonitrile	ND	4.0	0.44	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	ND	2.2	0.30	ND	0.55	0.075	
75-09-2	Methylene Chloride	2.2	2.1	0.60	0.63	0.60	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.29	ND	0.68	0.092	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.45	2.2	0.30	0.058	0.28	0.040	J
75-15-0	Carbon Disulfide	11	4.4	0.64	3.4	1.4	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.30	ND	0.53	0.075	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.52	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.59	0.070	
108-05-4	Vinyl Acetate	5.3	20	4.8	1.5	5.7	1.4	J
78-93-3	2-Butanone (MEK)	17	4.0	0.44	5.7	1.4	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-05

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00747

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.78 Final Pressure (psig): 7.52

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.52	0.076	
141-78-6	Ethyl Acetate	35	8.4	1.1	9.8	2.3	0.31	
110-54-3	n-Hexane	1.7	2.1	0.44	0.47	0.60	0.12	J
67-66-3	Chloroform	ND	2.2	0.28	ND	0.44	0.058	
109-99-9	Tetrahydrofuran (THF)	8.4	4.0	0.27	2.8	1.4	0.091	
107-06-2	1,2-Dichloroethane	0.27	2.1	0.24	0.067	0.52	0.058	J
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.26	ND	0.38	0.048	
71-43-2	Benzene	0.64	2.0	0.31	0.20	0.63	0.096	J
56-23-5	Carbon Tetrachloride	0.37	2.0	0.30	0.059	0.32	0.047	J
110-82-7	Cyclohexane	0.78	4.4	0.60	0.23	1.3	0.17	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.43	0.057	
75-27-4	Bromodichloromethane	ND	2.1	0.31	ND	0.32	0.046	
79-01-6	Trichloroethene	ND	2.1	0.29	ND	0.39	0.054	
123-91-1	1,4-Dioxane	0.50	2.1	0.25	0.14	0.58	0.070	J
80-62-6	Methyl Methacrylate	ND	4.4	0.76	ND	1.1	0.19	
142-82-5	n-Heptane	1.7	2.1	0.34	0.41	0.52	0.083	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.073	
108-10-1	4-Methyl-2-pentanone	4.4	4.4	0.29	1.1	1.1	0.071	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.44	ND	0.45	0.097	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.22	ND	0.38	0.040	
108-88-3	Toluene	19	2.1	0.26	5.1	0.55	0.069	
591-78-6	2-Hexanone	3.2	4.4	0.26	0.78	1.1	0.064	J
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.033	
106-93-4	1,2-Dibromoethane	ND	2.1	0.25	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	17	4.4	0.29	3.7	0.93	0.061	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-05

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-005

Test Code: EPA TO-15

Date Collected: 9/16/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/4/21

Analyst: Topacio Zavala

Date Analyzed: 10/14/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00747

Initial Pressure (psig): -0.78 Final Pressure (psig): 7.52

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	2.1	0.48	0.21	0.45	0.10	J
127-18-4	Tetrachloroethene	5.6	2.1	0.28	0.83	0.31	0.041	
108-90-7	Chlorobenzene	ND	2.1	0.28	ND	0.45	0.062	
100-41-4	Ethylbenzene	7.0	2.1	0.30	1.6	0.48	0.069	
179601-23-1	m,p-Xylenes	23	4.4	0.56	5.2	1.0	0.13	
75-25-2	Bromoform	ND	2.1	0.44	ND	0.20	0.043	
100-42-5	Styrene	2.4	2.0	0.34	0.56	0.47	0.081	
95-47-6	o-Xylene	8.7	2.1	0.31	2.0	0.48	0.071	
111-84-2	n-Nonane	0.84	2.1	0.36	0.16	0.40	0.068	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.30	ND	0.30	0.043	
98-82-8	Cumene	0.48	2.1	0.31	0.098	0.42	0.063	J
80-56-8	alpha-Pinene	3.7	2.2	0.33	0.67	0.39	0.059	
103-65-1	n-Propylbenzene	1.1	2.1	0.31	0.22	0.43	0.063	J
622-96-8	4-Ethyltoluene	1.5	2.1	0.34	0.31	0.43	0.069	J
108-67-8	1,3,5-Trimethylbenzene	2.7	2.1	0.31	0.54	0.42	0.063	
95-63-6	1,2,4-Trimethylbenzene	5.9	2.1	0.30	1.2	0.42	0.060	
100-44-7	Benzyl Chloride	ND	4.4	0.48	ND	0.85	0.093	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.053	
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.33	ND	0.35	0.055	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.053	
5989-27-5	d-Limonene	14	2.0	0.44	2.5	0.36	0.079	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.52	ND	0.59	0.070	
91-20-3	Naphthalene	2.7	2.1	0.52	0.52	0.40	0.099	
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ND	0.20	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -0.79 Final Pressure (psig): 7.27

Canister Dilution Factor: 1.58

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	690	21	5.1	400	12	3.0	D
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.1	0.34	0.46	0.42	0.070	
74-87-3	Chloromethane	0.58	2.0	0.34	0.28	0.98	0.16	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.31	0.047	
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.80	0.088	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.93	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.52	0.075	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.76	0.099	
64-17-5	Ethanol	42	20	1.5	22	10	0.78	
75-05-8	Acetonitrile	0.79	4.0	0.51	0.47	2.4	0.31	J
107-02-8	Acrolein	2.9	4.0	0.59	1.3	1.7	0.26	J
67-64-1	Acetone	84	21	4.7	35	8.7	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.1	0.32	0.19	0.37	0.057	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	4.0	0.87	1.3	1.6	0.35	J
107-13-1	Acrylonitrile	ND	4.0	0.43	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	6.3	2.1	0.29	1.6	0.54	0.074	
75-09-2	Methylene Chloride	ND	2.1	0.59	ND	0.59	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.28	ND	0.67	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.45	2.1	0.30	0.059	0.28	0.039	J
75-15-0	Carbon Disulfide	89	4.3	0.63	29	1.4	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.53	0.074	
75-34-3	1,1-Dichloroethane	0.95	2.1	0.31	0.24	0.52	0.076	J
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.58	0.069	
108-05-4	Vinyl Acetate	11	20	4.7	3.0	5.6	1.3	J
78-93-3	2-Butanone (MEK)	11	4.0	0.43	3.6	1.3	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -0.79 Final Pressure (psig): 7.27

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.52	0.075	
141-78-6	Ethyl Acetate	1.4	8.3	1.1	0.40	2.3	0.31	J
110-54-3	n-Hexane	4.1	2.1	0.43	1.2	0.59	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.44	0.057	
109-99-9	Tetrahydrofuran (THF)	7.7	4.0	0.26	2.6	1.3	0.090	
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.52	0.058	
71-55-6	1,1,1-Trichloroethane	6.7	2.1	0.26	1.2	0.38	0.048	
71-43-2	Benzene	0.36	2.0	0.30	0.11	0.62	0.095	J
56-23-5	Carbon Tetrachloride	0.40	2.0	0.29	0.063	0.31	0.046	J
110-82-7	Cyclohexane	0.60	4.3	0.59	0.18	1.3	0.17	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.43	0.056	
75-27-4	Bromodichloromethane	ND	2.1	0.30	ND	0.31	0.045	
79-01-6	Trichloroethene	1.2	2.1	0.28	0.22	0.38	0.053	J
123-91-1	1,4-Dioxane	0.79	2.1	0.25	0.22	0.57	0.069	J
80-62-6	Methyl Methacrylate	ND	4.3	0.75	ND	1.1	0.18	
142-82-5	n-Heptane	0.73	2.1	0.34	0.18	0.51	0.082	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.072	
108-10-1	4-Methyl-2-pentanone	2.9	4.3	0.29	0.71	1.1	0.070	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ND	0.44	0.096	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.21	ND	0.38	0.039	
108-88-3	Toluene	15	2.1	0.26	3.9	0.55	0.068	
591-78-6	2-Hexanone	2.4	4.3	0.26	0.58	1.1	0.064	J
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.032	
106-93-4	1,2-Dibromoethane	ND	2.1	0.24	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	1.9	4.3	0.29	0.40	0.91	0.061	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -0.79 Final Pressure (psig): 7.27

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.60	2.1	0.47	0.13	0.45	0.10	J
127-18-4	Tetrachloroethene	4.1	2.1	0.27	0.60	0.30	0.040	
108-90-7	Chlorobenzene	ND	2.1	0.28	ND	0.45	0.061	
100-41-4	Ethylbenzene	11	2.1	0.30	2.4	0.47	0.068	
179601-23-1	m,p-Xylenes	36	4.3	0.55	8.2	1.0	0.13	
75-25-2	Bromoform	ND	2.1	0.43	ND	0.20	0.042	
100-42-5	Styrene	0.60	2.0	0.34	0.14	0.46	0.080	J
95-47-6	o-Xylene	43	2.1	0.30	9.8	0.47	0.070	
111-84-2	n-Nonane	0.71	2.1	0.35	0.14	0.39	0.067	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.29	ND	0.30	0.043	
98-82-8	Cumene	1.8	2.1	0.30	0.37	0.42	0.062	J
80-56-8	alpha-Pinene	2.5	2.1	0.32	0.45	0.38	0.058	
103-65-1	n-Propylbenzene	2.9	2.1	0.30	0.59	0.43	0.062	
622-96-8	4-Ethyltoluene	3.2	2.1	0.34	0.66	0.43	0.068	
108-67-8	1,3,5-Trimethylbenzene	8.7	2.1	0.30	1.8	0.42	0.062	
95-63-6	1,2,4-Trimethylbenzene	7.8	2.1	0.29	1.6	0.42	0.059	
100-44-7	Benzyl Chloride	ND	4.3	0.47	ND	0.84	0.092	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.34	0.053	
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.32	ND	0.34	0.054	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.35	0.052	
5989-27-5	d-Limonene	8.2	2.0	0.43	1.5	0.35	0.078	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	0.51	ND	0.59	0.069	
91-20-3	Naphthalene	ND	2.1	0.51	ND	0.39	0.098	
87-68-3	Hexachlorobutadiene	ND	2.1	0.43	ND	0.19	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-08
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00886

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.10 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.08

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	29	1.4	0.35	17	0.82	0.20	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	1.4	0.23	0.30	0.29	0.048	
74-87-3	Chloromethane	0.26	1.4	0.23	0.12	0.67	0.11	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.5	0.23	ND	0.21	0.032	
75-01-4	Vinyl Chloride	ND	1.4	0.15	ND	0.55	0.060	
106-99-0	1,3-Butadiene	ND	1.4	0.24	ND	0.63	0.11	
74-83-9	Bromomethane	ND	1.4	0.20	ND	0.35	0.051	
75-00-3	Chloroethane	ND	1.4	0.18	ND	0.52	0.068	
64-17-5	Ethanol	62	14	1.0	33	7.2	0.53	
75-05-8	Acetonitrile	0.62	2.7	0.35	0.37	1.6	0.21	J
107-02-8	Acrolein	1.4	2.7	0.41	0.63	1.2	0.18	J
67-64-1	Acetone	29	14	3.2	12	5.9	1.4	
75-69-4	Trichlorofluoromethane (CFC 11)	0.67	1.4	0.22	0.12	0.25	0.039	J
67-63-0	2-Propanol (Isopropyl Alcohol)	5.8	2.7	0.59	2.3	1.1	0.24	
107-13-1	Acrylonitrile	ND	2.7	0.30	ND	1.2	0.14	
75-35-4	1,1-Dichloroethene	62	1.5	0.20	16	0.37	0.050	
75-09-2	Methylene Chloride	0.66	1.4	0.41	0.19	0.40	0.12	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.4	0.19	ND	0.46	0.062	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.29	1.5	0.21	0.037	0.19	0.027	J
75-15-0	Carbon Disulfide	3.2	3.0	0.43	1.0	0.95	0.14	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.20	ND	0.36	0.050	
75-34-3	1,1-Dichloroethane	3.7	1.4	0.21	0.91	0.35	0.052	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	0.17	ND	0.40	0.047	
108-05-4	Vinyl Acetate	6.9	14	3.2	2.0	3.8	0.92	J
78-93-3	2-Butanone (MEK)	6.5	2.7	0.30	2.2	0.92	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-08

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00886

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.10 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.08

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.20	ND	0.35	0.051	
141-78-6	Ethyl Acetate	12	5.7	0.76	3.3	1.6	0.21	
110-54-3	n-Hexane	0.73	1.4	0.30	0.21	0.41	0.084	J
67-66-3	Chloroform	0.27	1.5	0.19	0.055	0.30	0.039	J
109-99-9	Tetrahydrofuran (THF)	2.4	2.7	0.18	0.80	0.92	0.061	J
107-06-2	1,2-Dichloroethane	ND	1.4	0.16	ND	0.35	0.039	
71-55-6	1,1,1-Trichloroethane	6.7	1.4	0.18	1.2	0.26	0.033	
71-43-2	Benzene	0.62	1.4	0.21	0.19	0.42	0.065	J
56-23-5	Carbon Tetrachloride	0.20	1.4	0.20	0.032	0.21	0.032	J
110-82-7	Cyclohexane	0.59	3.0	0.41	0.17	0.86	0.12	J
78-87-5	1,2-Dichloropropane	ND	1.4	0.18	ND	0.29	0.039	
75-27-4	Bromodichloromethane	ND	1.4	0.21	ND	0.21	0.031	
79-01-6	Trichloroethene	0.35	1.4	0.19	0.065	0.26	0.036	J
123-91-1	1,4-Dioxane	ND	1.4	0.17	ND	0.39	0.047	
80-62-6	Methyl Methacrylate	ND	3.0	0.51	ND	0.73	0.13	
142-82-5	n-Heptane	0.89	1.4	0.23	0.22	0.35	0.056	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	0.22	ND	0.30	0.049	
108-10-1	4-Methyl-2-pentanone	0.70	3.0	0.20	0.17	0.73	0.048	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.30	ND	0.30	0.065	
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.15	ND	0.26	0.027	
108-88-3	Toluene	11	1.4	0.18	2.8	0.37	0.047	
591-78-6	2-Hexanone	1.2	3.0	0.18	0.29	0.73	0.044	J
124-48-1	Dibromochloromethane	ND	1.4	0.19	ND	0.17	0.022	
106-93-4	1,2-Dibromoethane	ND	1.4	0.17	ND	0.18	0.022	
123-86-4	n-Butyl Acetate	0.76	3.0	0.20	0.16	0.63	0.042	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-08

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00886

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.10 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.08

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.62	1.4	0.32	0.13	0.31	0.069	J
127-18-4	Tetrachloroethene	3.7	1.4	0.19	0.55	0.21	0.027	
108-90-7	Chlorobenzene	ND	1.4	0.19	ND	0.30	0.042	
100-41-4	Ethylbenzene	1.1	1.4	0.20	0.25	0.32	0.047	J
179601-23-1	m,p-Xylenes	4.8	3.0	0.38	1.1	0.68	0.087	
75-25-2	Bromoform	ND	1.4	0.30	ND	0.14	0.029	
100-42-5	Styrene	0.93	1.4	0.23	0.22	0.32	0.055	J
95-47-6	o-Xylene	1.9	1.4	0.21	0.44	0.32	0.048	
111-84-2	n-Nonane	0.53	1.4	0.24	0.10	0.27	0.046	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	0.20	ND	0.20	0.029	
98-82-8	Cumene	ND	1.4	0.21	ND	0.29	0.042	
80-56-8	alpha-Pinene	1.5	1.5	0.22	0.27	0.26	0.040	
103-65-1	n-Propylbenzene	0.31	1.4	0.21	0.062	0.29	0.042	J
622-96-8	4-Ethyltoluene	0.45	1.4	0.23	0.092	0.29	0.047	J
108-67-8	1,3,5-Trimethylbenzene	0.57	1.4	0.21	0.12	0.29	0.042	J
95-63-6	1,2,4-Trimethylbenzene	1.9	1.4	0.20	0.38	0.29	0.041	
100-44-7	Benzyl Chloride	ND	3.0	0.32	ND	0.57	0.063	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.22	ND	0.23	0.036	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.22	ND	0.23	0.037	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.21	ND	0.24	0.035	
5989-27-5	d-Limonene	7.5	1.4	0.30	1.3	0.24	0.053	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.7	0.27	ND	0.28	0.028	
120-82-1	1,2,4-Trichlorobenzene	ND	3.0	0.35	ND	0.40	0.047	
91-20-3	Naphthalene	0.74	1.4	0.35	0.14	0.27	0.067	J
87-68-3	Hexachlorobutadiene	ND	1.4	0.30	ND	0.13	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-09

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-008

Test Code: EPA TO-15

Date Collected: 9/16/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/4/21

Analyst: Topacio Zavala

Date Analyzed: 10/14/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01224

Initial Pressure (psig): -0.35 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.02

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	160	1.3	0.33	94	0.77	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	1.4	0.22	0.31	0.27	0.045	
74-87-3	Chloromethane	ND	1.3	0.22	ND	0.63	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.4	0.21	ND	0.20	0.031	
75-01-4	Vinyl Chloride	ND	1.3	0.15	ND	0.52	0.057	
106-99-0	1,3-Butadiene	ND	1.3	0.22	ND	0.60	0.10	
74-83-9	Bromomethane	ND	1.3	0.19	ND	0.34	0.049	
75-00-3	Chloroethane	ND	1.3	0.17	ND	0.49	0.064	
64-17-5	Ethanol	2.2	13	0.94	1.2	6.8	0.50	J
75-05-8	Acetonitrile	ND	2.6	0.33	ND	1.5	0.20	
107-02-8	Acrolein	ND	2.6	0.38	ND	1.1	0.17	
67-64-1	Acetone	11	13	3.1	4.6	5.6	1.3	J
75-69-4	Trichlorofluoromethane (CFC 11)	0.71	1.3	0.21	0.13	0.24	0.037	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	2.6	0.56	1.4	1.0	0.23	
107-13-1	Acrylonitrile	ND	2.6	0.28	ND	1.2	0.13	
75-35-4	1,1-Dichloroethene	2.2	1.4	0.19	0.56	0.35	0.048	
75-09-2	Methylene Chloride	ND	1.3	0.38	ND	0.38	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.4	0.18	ND	0.43	0.059	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.30	1.4	0.19	0.039	0.18	0.025	J
75-15-0	Carbon Disulfide	0.97	2.8	0.41	0.31	0.90	0.13	J
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.19	ND	0.34	0.048	
75-34-3	1,1-Dichloroethane	ND	1.4	0.20	ND	0.33	0.049	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	0.16	ND	0.38	0.045	
108-05-4	Vinyl Acetate	ND	13	3.1	ND	3.6	0.87	
78-93-3	2-Butanone (MEK)	3.9	2.6	0.28	1.3	0.86	0.095	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-09
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01224

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.35 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.02

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.19	ND	0.33	0.048	
141-78-6	Ethyl Acetate	ND	5.4	0.71	ND	1.5	0.20	
110-54-3	n-Hexane	1.3	1.4	0.28	0.37	0.38	0.080	J
67-66-3	Chloroform	ND	1.4	0.18	ND	0.28	0.037	
109-99-9	Tetrahydrofuran (THF)	2.4	2.6	0.17	0.81	0.86	0.058	J
107-06-2	1,2-Dichloroethane	ND	1.4	0.15	ND	0.33	0.037	
71-55-6	1,1,1-Trichloroethane	4.4	1.3	0.17	0.80	0.24	0.031	
71-43-2	Benzene	ND	1.3	0.20	ND	0.40	0.061	
56-23-5	Carbon Tetrachloride	0.27	1.3	0.19	0.043	0.20	0.030	J
110-82-7	Cyclohexane	ND	2.8	0.38	ND	0.82	0.11	
78-87-5	1,2-Dichloropropane	ND	1.3	0.17	ND	0.28	0.036	
75-27-4	Bromodichloromethane	ND	1.4	0.20	ND	0.20	0.029	
79-01-6	Trichloroethene	0.18	1.3	0.18	0.034	0.25	0.034	J
123-91-1	1,4-Dioxane	0.29	1.3	0.16	0.081	0.37	0.045	J
80-62-6	Methyl Methacrylate	ND	2.8	0.48	ND	0.69	0.12	
142-82-5	n-Heptane	ND	1.4	0.22	ND	0.33	0.053	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.21	ND	0.28	0.047	
108-10-1	4-Methyl-2-pentanone	0.62	2.8	0.19	0.15	0.68	0.045	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.28	ND	0.29	0.062	
79-00-5	1,1,2-Trichloroethane	ND	1.3	0.14	ND	0.24	0.025	
108-88-3	Toluene	4.5	1.3	0.17	1.2	0.35	0.044	
591-78-6	2-Hexanone	1.3	2.8	0.17	0.31	0.69	0.041	J
124-48-1	Dibromochloromethane	ND	1.4	0.18	ND	0.16	0.021	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ND	0.17	0.021	
123-86-4	n-Butyl Acetate	0.33	2.8	0.19	0.070	0.59	0.039	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-09

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-008

Test Code: EPA TO-15

Date Collected: 9/16/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/4/21

Analyst: Topacio Zavala

Date Analyzed: 10/14/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01224

Initial Pressure (psig): -0.35 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.02

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.4	0.31	ND	0.29	0.066	
127-18-4	Tetrachloroethene	1.0	1.3	0.18	0.15	0.20	0.026	J
108-90-7	Chlorobenzene	ND	1.3	0.18	ND	0.29	0.039	
100-41-4	Ethylbenzene	1.4	1.3	0.19	0.33	0.31	0.044	
179601-23-1	m,p-Xylenes	5.5	2.8	0.36	1.3	0.65	0.082	
75-25-2	Bromoform	ND	1.3	0.28	ND	0.13	0.027	
100-42-5	Styrene	0.69	1.3	0.22	0.16	0.30	0.052	J
95-47-6	o-Xylene	3.0	1.3	0.20	0.69	0.31	0.045	
111-84-2	n-Nonane	0.29	1.3	0.23	0.056	0.25	0.043	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.19	ND	0.19	0.027	
98-82-8	Cumene	ND	1.3	0.20	ND	0.27	0.040	
80-56-8	alpha-Pinene	1.1	1.4	0.21	0.20	0.25	0.038	J
103-65-1	n-Propylbenzene	0.39	1.4	0.20	0.080	0.28	0.040	J
622-96-8	4-Ethyltoluene	0.49	1.4	0.22	0.10	0.28	0.044	J
108-67-8	1,3,5-Trimethylbenzene	1.7	1.3	0.20	0.34	0.27	0.040	
95-63-6	1,2,4-Trimethylbenzene	2.2	1.3	0.19	0.46	0.27	0.038	
100-44-7	Benzyl Chloride	ND	2.8	0.31	ND	0.54	0.059	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.20	ND	0.22	0.034	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.21	ND	0.22	0.035	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.20	ND	0.22	0.034	
5989-27-5	d-Limonene	4.8	1.3	0.28	0.86	0.23	0.050	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.26	ND	0.26	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	2.8	0.33	ND	0.38	0.045	
91-20-3	Naphthalene	1.6	1.3	0.33	0.30	0.25	0.063	
87-68-3	Hexachlorobutadiene	ND	1.3	0.28	ND	0.12	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-01
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00449

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14 - 10/15/21
 Volume(s) Analyzed: 0.14 Liter(s)
 0.035 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.07

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	210	4.0	0.99	120	2.3	0.58	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	4.1	0.66	0.36	0.82	0.13	J
74-87-3	Chloromethane	ND	3.9	0.66	ND	1.9	0.32	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	4.1	0.64	ND	0.59	0.092	
75-01-4	Vinyl Chloride	ND	4.0	0.44	ND	1.6	0.17	
106-99-0	1,3-Butadiene	ND	4.0	0.67	ND	1.8	0.30	
74-83-9	Bromomethane	ND	3.9	0.57	ND	1.0	0.15	
75-00-3	Chloroethane	ND	3.9	0.50	ND	1.5	0.19	
64-17-5	Ethanol	39	38	2.8	21	20	1.5	
75-05-8	Acetonitrile	ND	7.6	0.99	ND	4.6	0.59	
107-02-8	Acrolein	ND	7.6	1.1	ND	3.3	0.50	
67-64-1	Acetone	26	40	9.2	11	17	3.9	J
75-69-4	Trichlorofluoromethane (CFC 11)	0.70	4.0	0.62	0.12	0.71	0.11	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	7.6	1.7	0.81	3.1	0.68	J
107-13-1	Acrylonitrile	ND	7.6	0.84	ND	3.5	0.39	
75-35-4	1,1-Dichloroethene	9.4	4.1	0.57	2.4	1.0	0.14	
75-09-2	Methylene Chloride	ND	4.0	1.1	ND	1.1	0.33	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	4.1	0.55	ND	1.3	0.18	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	4.1	0.58	ND	0.54	0.076	
75-15-0	Carbon Disulfide	3.0	8.4	1.2	0.97	2.7	0.39	J
156-60-5	trans-1,2-Dichloroethene	ND	4.1	0.57	ND	1.0	0.14	
75-34-3	1,1-Dichloroethane	ND	4.1	0.60	ND	1.0	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	4.1	0.48	ND	1.1	0.13	
108-05-4	Vinyl Acetate	ND	38	9.2	ND	11	2.6	
78-93-3	2-Butanone (MEK)	7.2	7.6	0.84	2.4	2.6	0.29	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00449

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.14 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.07

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	4.0	0.57	ND	1.0	0.14	
141-78-6	Ethyl Acetate	ND	16	2.1	ND	4.5	0.59	
110-54-3	n-Hexane	5.1	4.1	0.84	1.4	1.1	0.24	
67-66-3	Chloroform	ND	4.1	0.54	ND	0.85	0.11	
109-99-9	Tetrahydrofuran (THF)	28	7.6	0.51	9.6	2.6	0.17	
107-06-2	1,2-Dichloroethane	ND	4.1	0.45	ND	1.0	0.11	
71-55-6	1,1,1-Trichloroethane	16	4.0	0.50	2.9	0.73	0.092	
71-43-2	Benzene	ND	3.8	0.59	ND	1.2	0.18	
56-23-5	Carbon Tetrachloride	ND	3.8	0.57	ND	0.61	0.090	
110-82-7	Cyclohexane	1.2	8.4	1.1	0.34	2.4	0.33	J
78-87-5	1,2-Dichloropropane	ND	3.8	0.50	ND	0.83	0.11	
75-27-4	Bromodichloromethane	ND	4.1	0.59	ND	0.60	0.088	
79-01-6	Trichloroethene	1.2	4.0	0.55	0.22	0.74	0.10	J
123-91-1	1,4-Dioxane	1,300	16	1.9	370	4.4	0.53	D
80-62-6	Methyl Methacrylate	ND	8.4	1.5	ND	2.1	0.35	
142-82-5	n-Heptane	ND	4.1	0.65	ND	0.99	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.63	ND	0.84	0.14	
108-10-1	4-Methyl-2-pentanone	1.4	8.4	0.56	0.35	2.1	0.14	J
10061-02-6	trans-1,3-Dichloropropene	ND	3.9	0.84	ND	0.86	0.19	
79-00-5	1,1,2-Trichloroethane	ND	4.0	0.41	ND	0.73	0.076	
108-88-3	Toluene	13	4.0	0.50	3.5	1.1	0.13	
591-78-6	2-Hexanone	ND	8.4	0.50	ND	2.1	0.12	
124-48-1	Dibromochloromethane	ND	4.1	0.54	ND	0.48	0.063	
106-93-4	1,2-Dibromoethane	ND	4.0	0.47	ND	0.52	0.062	
123-86-4	n-Butyl Acetate	2.1	8.4	0.56	0.44	1.8	0.12	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00449

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.14 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.07

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.94	4.1	0.92	0.20	0.87	0.20	J
127-18-4	Tetrachloroethene	0.98	4.0	0.53	0.14	0.59	0.078	J
108-90-7	Chlorobenzene	ND	4.0	0.54	ND	0.86	0.12	
100-41-4	Ethylbenzene	5.4	4.0	0.57	1.2	0.92	0.13	
179601-23-1	m,p-Xylenes	22	8.4	1.1	5.1	1.9	0.25	
75-25-2	Bromoform	ND	4.0	0.84	ND	0.38	0.081	
100-42-5	Styrene	1.5	3.8	0.66	0.34	0.90	0.15	J
95-47-6	o-Xylene	7.4	4.0	0.59	1.7	0.92	0.14	
111-84-2	n-Nonane	ND	4.0	0.68	ND	0.76	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	0.57	ND	0.58	0.082	
98-82-8	Cumene	ND	4.0	0.59	ND	0.81	0.12	
80-56-8	alpha-Pinene	1.1	4.1	0.63	0.20	0.74	0.11	J
103-65-1	n-Propylbenzene	1.2	4.1	0.59	0.24	0.82	0.12	J
622-96-8	4-Ethyltoluene	1.6	4.1	0.65	0.33	0.82	0.13	J
108-67-8	1,3,5-Trimethylbenzene	2.0	4.0	0.59	0.40	0.81	0.12	J
95-63-6	1,2,4-Trimethylbenzene	7.9	4.0	0.57	1.6	0.81	0.12	
100-44-7	Benzyl Chloride	ND	8.4	0.92	ND	1.6	0.18	
541-73-1	1,3-Dichlorobenzene	ND	4.0	0.61	ND	0.66	0.10	
106-46-7	1,4-Dichlorobenzene	ND	4.0	0.63	ND	0.66	0.10	
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.60	ND	0.67	0.10	
5989-27-5	d-Limonene	10	3.8	0.84	1.9	0.69	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.6	0.76	ND	0.79	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	8.4	0.99	ND	1.1	0.13	
91-20-3	Naphthalene	6.8	4.0	0.99	1.3	0.76	0.19	
87-68-3	Hexachlorobutadiene	ND	4.0	0.84	ND	0.37	0.079	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00586

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14 - 10/15/21
 Volume(s) Analyzed: 0.10 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.04

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	100	5.4	1.4	58	3.1	0.79	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	5.5	0.90	0.37	1.1	0.18	J
74-87-3	Chloromethane	1.4	5.3	0.89	0.67	2.6	0.43	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.6	0.87	ND	0.80	0.13	
75-01-4	Vinyl Chloride	ND	5.4	0.59	ND	2.1	0.23	
106-99-0	1,3-Butadiene	ND	5.4	0.92	ND	2.4	0.41	
74-83-9	Bromomethane	ND	5.3	0.77	ND	1.4	0.20	
75-00-3	Chloroethane	ND	5.3	0.69	ND	2.0	0.26	
64-17-5	Ethanol	72	52	3.8	38	28	2.0	
75-05-8	Acetonitrile	ND	10	1.4	ND	6.2	0.81	
107-02-8	Acrolein	1.9	10	1.6	0.83	4.5	0.68	J
67-64-1	Acetone	42	54	12	18	23	5.3	J
75-69-4	Trichlorofluoromethane (CFC 11)	ND	5.4	0.84	ND	0.96	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	10	2.3	3.4	4.2	0.93	J
107-13-1	Acrylonitrile	ND	10	1.1	ND	4.8	0.53	
75-35-4	1,1-Dichloroethene	24	5.6	0.77	6.1	1.4	0.19	
75-09-2	Methylene Chloride	ND	5.4	1.6	ND	1.6	0.45	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	5.5	0.75	ND	1.8	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	5.6	0.79	ND	0.73	0.10	
75-15-0	Carbon Disulfide	5.9	11	1.7	1.9	3.7	0.53	J
156-60-5	trans-1,2-Dichloroethene	ND	5.5	0.77	ND	1.4	0.19	
75-34-3	1,1-Dichloroethane	1.2	5.5	0.81	0.31	1.4	0.20	J
1634-04-4	Methyl tert-Butyl Ether	ND	5.5	0.66	ND	1.5	0.18	
108-05-4	Vinyl Acetate	ND	52	12	ND	15	3.5	
78-93-3	2-Butanone (MEK)	11	10	1.1	3.6	3.5	0.39	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00586

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.10 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.04

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	5.4	0.78	ND	1.4	0.20	
141-78-6	Ethyl Acetate	32	22	2.9	8.8	6.1	0.81	
110-54-3	n-Hexane	6.0	5.5	1.1	1.7	1.6	0.32	
67-66-3	Chloroform	ND	5.6	0.74	ND	1.2	0.15	
109-99-9	Tetrahydrofuran (THF)	6.8	10	0.70	2.3	3.5	0.24	J
107-06-2	1,2-Dichloroethane	ND	5.5	0.61	ND	1.4	0.15	
71-55-6	1,1,1-Trichloroethane	15	5.4	0.69	2.7	0.99	0.13	
71-43-2	Benzene	ND	5.2	0.80	ND	1.6	0.25	
56-23-5	Carbon Tetrachloride	ND	5.2	0.77	ND	0.83	0.12	
110-82-7	Cyclohexane	ND	11	1.6	ND	3.3	0.45	
78-87-5	1,2-Dichloropropane	ND	5.2	0.69	ND	1.1	0.15	
75-27-4	Bromodichloromethane	ND	5.5	0.80	ND	0.82	0.12	
79-01-6	Trichloroethene	4.0	5.4	0.75	0.75	1.0	0.14	J
123-91-1	1,4-Dioxane	1,900	22	2.6	520	6.0	0.73	D
80-62-6	Methyl Methacrylate	ND	11	2.0	ND	2.8	0.48	
142-82-5	n-Heptane	0.94	5.5	0.88	0.23	1.3	0.22	J
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.86	ND	1.1	0.19	
108-10-1	4-Methyl-2-pentanone	1.6	11	0.76	0.40	2.8	0.19	J
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.1	ND	1.2	0.25	
79-00-5	1,1,2-Trichloroethane	ND	5.4	0.56	ND	0.99	0.10	
108-88-3	Toluene	16	5.4	0.68	4.2	1.4	0.18	
591-78-6	2-Hexanone	ND	11	0.69	ND	2.8	0.17	
124-48-1	Dibromochloromethane	ND	5.5	0.73	ND	0.65	0.085	
106-93-4	1,2-Dibromoethane	ND	5.4	0.64	ND	0.70	0.084	
123-86-4	n-Butyl Acetate	1.2	11	0.76	0.25	2.4	0.16	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00586

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.10 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.04

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	8.6	5.5	1.2	1.8	1.2	0.27	
127-18-4	Tetrachloroethene	3.6	5.4	0.72	0.53	0.80	0.11	J
108-90-7	Chlorobenzene	ND	5.4	0.74	ND	1.2	0.16	
100-41-4	Ethylbenzene	3.3	5.4	0.78	0.75	1.2	0.18	J
179601-23-1	m,p-Xylenes	15	11	1.5	3.5	2.6	0.34	
75-25-2	Bromoform	ND	5.4	1.1	ND	0.52	0.11	
100-42-5	Styrene	1.1	5.2	0.89	0.26	1.2	0.21	J
95-47-6	o-Xylene	5.5	5.4	0.80	1.3	1.2	0.18	
111-84-2	n-Nonane	ND	5.4	0.93	ND	1.0	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	0.77	ND	0.79	0.11	
98-82-8	Cumene	ND	5.4	0.80	ND	1.1	0.16	
80-56-8	alpha-Pinene	2.4	5.6	0.85	0.42	1.0	0.15	J
103-65-1	n-Propylbenzene	0.88	5.5	0.80	0.18	1.1	0.16	J
622-96-8	4-Ethyltoluene	1.2	5.5	0.88	0.25	1.1	0.18	J
108-67-8	1,3,5-Trimethylbenzene	1.5	5.4	0.80	0.30	1.1	0.16	J
95-63-6	1,2,4-Trimethylbenzene	6.5	5.4	0.77	1.3	1.1	0.16	
100-44-7	Benzyl Chloride	ND	11	1.2	ND	2.2	0.24	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.83	ND	0.90	0.14	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.85	ND	0.90	0.14	
95-50-1	1,2-Dichlorobenzene	ND	5.5	0.82	ND	0.92	0.14	
5989-27-5	d-Limonene	9.4	5.2	1.1	1.7	0.93	0.21	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.0	ND	1.1	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	11	1.4	ND	1.5	0.18	
91-20-3	Naphthalene	4.1	5.4	1.4	0.79	1.0	0.26	J
87-68-3	Hexachlorobutadiene	ND	5.4	1.1	ND	0.51	0.11	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-03
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P2105213-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01129

Date Collected: 9/16/21
 Date Received: 10/4/21
 Date Analyzed: 10/14 - 10/15/21
 Volume(s) Analyzed: 0.075 Liter(s)
 0.015 Liter(s)

Initial Pressure (psig): -3.80 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.35

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	170	9.4	2.3	100	5.4	1.4	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.7	9.5	1.6	0.35	1.9	0.32	J
74-87-3	Chloromethane	ND	9.2	1.5	ND	4.4	0.75	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	9.7	1.5	ND	1.4	0.22	
75-01-4	Vinyl Chloride	ND	9.4	1.0	ND	3.7	0.40	
106-99-0	1,3-Butadiene	ND	9.4	1.6	ND	4.2	0.72	
74-83-9	Bromomethane	ND	9.2	1.3	ND	2.4	0.34	
75-00-3	Chloroethane	ND	9.2	1.2	ND	3.5	0.45	
64-17-5	Ethanol	18	90	6.7	9.3	48	3.5	J
75-05-8	Acetonitrile	ND	18	2.3	ND	11	1.4	
107-02-8	Acrolein	ND	18	2.7	ND	7.9	1.2	
67-64-1	Acetone	ND	94	22	ND	39	9.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	9.4	1.5	ND	1.7	0.26	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	18	4.0	ND	7.3	1.6	
107-13-1	Acrylonitrile	ND	18	2.0	ND	8.3	0.91	
75-35-4	1,1-Dichloroethene	7.3	9.7	1.3	1.8	2.5	0.34	J
75-09-2	Methylene Chloride	ND	9.4	2.7	ND	2.7	0.78	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	9.5	1.3	ND	3.0	0.41	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	9.7	1.4	ND	1.3	0.18	
75-15-0	Carbon Disulfide	ND	20	2.9	ND	6.4	0.93	
156-60-5	trans-1,2-Dichloroethene	ND	9.5	1.3	ND	2.4	0.34	
75-34-3	1,1-Dichloroethane	ND	9.5	1.4	ND	2.4	0.35	
1634-04-4	Methyl tert-Butyl Ether	ND	9.5	1.1	ND	2.6	0.31	
108-05-4	Vinyl Acetate	ND	90	22	ND	26	6.1	
78-93-3	2-Butanone (MEK)	3.3	18	2.0	1.1	6.1	0.67	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01129

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.075 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.80 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.35

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	9.4	1.4	ND	2.4	0.34	
141-78-6	Ethyl Acetate	ND	38	5.0	ND	10	1.4	
110-54-3	n-Hexane	14	9.5	2.0	4.0	2.7	0.56	
67-66-3	Chloroform	ND	9.7	1.3	ND	2.0	0.26	
109-99-9	Tetrahydrofuran (THF)	7.1	18	1.2	2.4	6.1	0.41	J
107-06-2	1,2-Dichloroethane	ND	9.5	1.1	ND	2.4	0.26	
71-55-6	1,1,1-Trichloroethane	3.7	9.4	1.2	0.69	1.7	0.22	J
71-43-2	Benzene	ND	9.0	1.4	ND	2.8	0.43	
56-23-5	Carbon Tetrachloride	ND	9.0	1.3	ND	1.4	0.21	
110-82-7	Cyclohexane	3.2	20	2.7	0.94	5.8	0.78	J
78-87-5	1,2-Dichloropropane	ND	9.0	1.2	ND	1.9	0.26	
75-27-4	Bromodichloromethane	ND	9.5	1.4	ND	1.4	0.21	
79-01-6	Trichloroethene	ND	9.4	1.3	ND	1.7	0.24	
123-91-1	1,4-Dioxane	4,100	47	5.7	1,200	13	1.6	D
80-62-6	Methyl Methacrylate	ND	20	3.4	ND	4.8	0.84	
142-82-5	n-Heptane	ND	9.5	1.5	ND	2.3	0.37	
10061-01-5	cis-1,3-Dichloropropene	ND	9.0	1.5	ND	2.0	0.33	
108-10-1	4-Methyl-2-pentanone	ND	20	1.3	ND	4.8	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	9.2	2.0	ND	2.0	0.44	
79-00-5	1,1,2-Trichloroethane	ND	9.4	0.97	ND	1.7	0.18	
108-88-3	Toluene	17	9.4	1.2	4.5	2.5	0.31	
591-78-6	2-Hexanone	ND	20	1.2	ND	4.8	0.29	
124-48-1	Dibromochloromethane	ND	9.5	1.3	ND	1.1	0.15	
106-93-4	1,2-Dibromoethane	ND	9.4	1.1	ND	1.2	0.15	
123-86-4	n-Butyl Acetate	ND	20	1.3	ND	4.2	0.28	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

ALS Sample ID: P2105213-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio Zavala

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01129

Date Collected: 9/16/21

Date Received: 10/4/21

Date Analyzed: 10/14 - 10/15/21

Volume(s) Analyzed: 0.075 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.80 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.35

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	9.5	2.2	ND	2.0	0.46	
127-18-4	Tetrachloroethene	ND	9.4	1.2	ND	1.4	0.18	
108-90-7	Chlorobenzene	ND	9.4	1.3	ND	2.0	0.28	
100-41-4	Ethylbenzene	4.4	9.4	1.4	1.0	2.2	0.31	J
179601-23-1	m,p-Xylenes	21	20	2.5	4.9	4.6	0.58	
75-25-2	Bromoform	ND	9.4	2.0	ND	0.91	0.19	
100-42-5	Styrene	ND	9.0	1.5	ND	2.1	0.36	
95-47-6	o-Xylene	7.9	9.4	1.4	1.8	2.2	0.32	J
111-84-2	n-Nonane	ND	9.4	1.6	ND	1.8	0.31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	9.4	1.3	ND	1.4	0.19	
98-82-8	Cumene	ND	9.4	1.4	ND	1.9	0.28	
80-56-8	alpha-Pinene	1.7	9.7	1.5	0.31	1.7	0.26	J
103-65-1	n-Propylbenzene	ND	9.5	1.4	ND	1.9	0.28	
622-96-8	4-Ethyltoluene	ND	9.5	1.5	ND	1.9	0.31	
108-67-8	1,3,5-Trimethylbenzene	2.1	9.4	1.4	0.43	1.9	0.28	J
95-63-6	1,2,4-Trimethylbenzene	8.3	9.4	1.3	1.7	1.9	0.27	J
100-44-7	Benzyl Chloride	ND	20	2.2	ND	3.8	0.42	
541-73-1	1,3-Dichlorobenzene	ND	9.4	1.4	ND	1.6	0.24	
106-46-7	1,4-Dichlorobenzene	ND	9.4	1.5	ND	1.6	0.25	
95-50-1	1,2-Dichlorobenzene	ND	9.5	1.4	ND	1.6	0.24	
5989-27-5	d-Limonene	8.7	9.0	2.0	1.6	1.6	0.36	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	18	1.8	ND	1.9	0.19	
120-82-1	1,2,4-Trichlorobenzene	ND	20	2.3	ND	2.7	0.32	
91-20-3	Naphthalene	13	9.4	2.3	2.4	1.8	0.45	
87-68-3	Hexachlorobutadiene	ND	9.4	2.0	ND	0.88	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala/Wida Ang
 Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 9/16/21
 Date(s) Received: 10/4/21
 Date(s) Analyzed: 10/14 - 10/15/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211014-MB	96	100	105	70-130	
Method Blank	P211015-MB	97	99	103	70-130	
Lab Control Sample	P211014-LCS	94	103	104	70-130	
Lab Control Sample	P211015-LCS	97	100	104	70-130	
Duplicate Lab Control Sample	P211014-DLCS	95	101	106	70-130	
Duplicate Lab Control Sample	P211015-DLCS	95	102	106	70-130	
SVE-OBS-01	P2105213-001	96	100	105	70-130	
SVE-OBS-02	P2105213-002	96	101	105	70-130	
SVE-OBS-03	P2105213-003	95	101	106	70-130	
SVE-OBS-04	P2105213-004	97	101	105	70-130	
SVE-OBS-05	P2105213-005	96	100	104	70-130	
SVE-OBS-07	P2105213-006	96	95	105	70-130	
SVE-OBS-08	P2105213-007	97	97	106	70-130	
SVE-OBS-09	P2105213-008	98	98	104	70-130	
SVE-EXT-01	P2105213-009	101	98	104	70-130	
SVE-EXT-02	P2105213-010	98	104	105	70-130	
SVE-EXT-03	P2105213-011	99	100	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	210	220	102	107	56-128	5	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	184	195	88	94	71-112	7	25	
74-87-3	Chloromethane	206	241	182	117	88	53-126	28	25	R
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	237	167	114	80	62-121	35	25	R
75-01-4	Vinyl Chloride	208	251	172	121	83	63-123	37	25	R
106-99-0	1,3-Butadiene	206	237	164	115	80	63-135	36	25	R
74-83-9	Bromomethane	206	204	202	99	98	71-112	1	25	
75-00-3	Chloroethane	206	197	202	96	98	66-117	2	25	
64-17-5	Ethanol	832	682	828	82	100	57-117	20	25	
75-05-8	Acetonitrile	202	178	182	88	90	59-131	2	25	
107-02-8	Acrolein	416	410	417	99	100	71-123	1	25	
67-64-1	Acetone	1,020	910	912	89	89	60-117	0	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	176	181	87	90	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	340	370	85	93	61-124	9	25	
107-13-1	Acrylonitrile	402	384	389	96	97	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	200	207	95	99	74-114	4	25	
75-09-2	Methylene Chloride	208	193	197	93	95	75-112	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	195	190	96	93	57-127	3	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	193	196	89	91	73-114	2	25	
75-15-0	Carbon Disulfide	414	392	380	95	92	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	208	212	211	102	101	76-119	1	25	
75-34-3	1,1-Dichloroethane	214	199	201	93	94	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	206	208	201	101	98	72-118	3	25	
108-05-4	Vinyl Acetate	942	734	1020	78	108	56-137	32	25	R
78-93-3	2-Butanone (MEK)	408	408	404	100	99	74-121	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
 R = Duplicate precision not met.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits			
156-59-2	cis-1,2-Dichloroethene	206	202	200	98	97	73-117	1	25	
141-78-6	Ethyl Acetate	580	751	532	129	92	59-161	33	25	R
110-54-3	n-Hexane	208	190	189	91	91	55-130	0	25	
67-66-3	Chloroform	210	194	196	92	93	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	393	409	97	101	73-114	4	25	
107-06-2	1,2-Dichloroethane	210	193	194	92	92	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	208	190	186	91	89	73-119	2	25	
71-43-2	Benzene	208	198	197	95	95	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	192	184	95	91	67-123	4	25	
110-82-7	Cyclohexane	412	398	394	97	96	70-119	1	25	
78-87-5	1,2-Dichloropropane	206	198	201	96	98	70-118	2	25	
75-27-4	Bromodichloromethane	208	201	203	97	98	74-119	1	25	
79-01-6	Trichloroethene	204	203	206	100	101	74-115	1	25	
123-91-1	1,4-Dioxane	206	222	222	108	108	77-124	0	25	
80-62-6	Methyl Methacrylate	410	419	425	102	104	78-126	2	25	
142-82-5	n-Heptane	206	205	209	100	101	70-119	1	25	
10061-01-5	cis-1,3-Dichloropropene	208	224	229	108	110	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	422	429	102	104	73-129	2	25	
10061-02-6	trans-1,3-Dichloropropene	200	203	208	102	104	80-127	2	25	
79-00-5	1,1,2-Trichloroethane	208	206	212	99	102	78-117	3	25	
108-88-3	Toluene	206	200	197	97	96	70-118	1	25	
591-78-6	2-Hexanone	406	413	401	102	99	74-132	3	25	
124-48-1	Dibromochloromethane	210	211	202	100	96	69-137	4	25	
106-93-4	1,2-Dibromoethane	208	217	212	104	102	76-128	2	25	
123-86-4	n-Butyl Acetate	406	400	393	99	97	75-134	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	202	197	97	95	68-120	2	25	
127-18-4	Tetrachloroethene	212	198	195	93	92	63-130	1	25	
108-90-7	Chlorobenzene	206	207	199	100	97	70-118	3	25	
100-41-4	Ethylbenzene	206	203	200	99	97	71-123	2	25	
179601-23-1	m,p-Xylenes	416	396	389	95	94	67-127	1	25	
75-25-2	Bromoform	210	220	212	105	101	65-149	4	25	
100-42-5	Styrene	202	210	199	104	99	76-132	5	25	
95-47-6	o-Xylene	208	200	197	96	95	69-124	1	25	
111-84-2	n-Nonane	208	203	200	98	96	64-127	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	214	212	103	102	69-128	1	25	
98-82-8	Cumene	206	202	195	98	95	69-125	3	25	
80-56-8	alpha-Pinene	210	220	213	105	101	68-129	4	25	
103-65-1	n-Propylbenzene	208	195	188	94	90	70-127	4	25	
622-96-8	4-Ethyltoluene	208	220	209	106	100	69-127	6	25	
108-67-8	1,3,5-Trimethylbenzene	208	206	202	99	97	66-129	2	25	
95-63-6	1,2,4-Trimethylbenzene	206	212	206	103	100	63-142	3	25	
100-44-7	Benzyl Chloride	416	447	402	107	97	73-145	10	25	
541-73-1	1,3-Dichlorobenzene	208	225	212	108	102	67-136	6	25	
106-46-7	1,4-Dichlorobenzene	210	226	206	108	98	63-134	10	25	
95-50-1	1,2-Dichlorobenzene	210	218	203	104	97	64-139	7	25	
5989-27-5	d-Limonene	206	227	220	110	107	63-137	3	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	398	376	99	93	72-145	6	25	
120-82-1	1,2,4-Trichlorobenzene	420	393	331	94	79	62-154	17	25	
91-20-3	Naphthalene	210	207	149	99	71	62-156	33	25	R
87-68-3	Hexachlorobutadiene	212	201	192	95	91	55-142	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	252	222	122	108	56-128	12	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	214	192	103	92	71-112	11	25	
74-87-3	Chloromethane	206	198	254	96	123	53-126	25	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	184	209	88	100	62-121	13	25	
75-01-4	Vinyl Chloride	208	187	198	90	95	63-123	5	25	
106-99-0	1,3-Butadiene	206	179	183	87	89	63-135	2	25	
74-83-9	Bromomethane	206	208	214	101	104	71-112	3	25	
75-00-3	Chloroethane	206	208	208	101	101	66-117	0	25	
64-17-5	Ethanol	832	872	859	105	103	57-117	2	25	
75-05-8	Acetonitrile	202	190	188	94	93	59-131	1	25	
107-02-8	Acrolein	416	436	431	105	104	71-123	1	25	
67-64-1	Acetone	1,020	952	930	93	91	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	192	187	95	93	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	385	368	96	92	61-124	4	25	
107-13-1	Acrylonitrile	402	408	401	101	100	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	210	208	100	99	74-114	1	25	
75-09-2	Methylene Chloride	208	201	198	97	95	75-112	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	196	191	96	94	57-127	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	203	199	94	92	73-114	2	25	
75-15-0	Carbon Disulfide	414	392	384	95	93	70-113	2	25	
156-60-5	trans-1,2-Dichloroethene	208	219	213	105	102	76-119	3	25	
75-34-3	1,1-Dichloroethane	214	207	200	97	93	70-114	4	25	
1634-04-4	Methyl tert-Butyl Ether	206	207	201	100	98	72-118	2	25	
108-05-4	Vinyl Acetate	942	1030	1010	109	107	56-137	2	25	
78-93-3	2-Butanone (MEK)	408	409	400	100	98	74-121	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	206	205	201	100	98	73-117	2	25	
141-78-6	Ethyl Acetate	580	542	528	93	91	59-161	2	25	
110-54-3	n-Hexane	208	193	189	93	91	55-130	2	25	
67-66-3	Chloroform	210	202	196	96	93	71-114	3	25	
109-99-9	Tetrahydrofuran (THF)	404	409	408	101	101	73-114	0	25	
107-06-2	1,2-Dichloroethane	210	200	195	95	93	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	208	198	191	95	92	73-119	3	25	
71-43-2	Benzene	208	203	200	98	96	72-113	2	25	
56-23-5	Carbon Tetrachloride	202	193	187	96	93	67-123	3	25	
110-82-7	Cyclohexane	412	399	392	97	95	70-119	2	25	
78-87-5	1,2-Dichloropropane	206	203	199	99	97	70-118	2	25	
75-27-4	Bromodichloromethane	208	205	202	99	97	74-119	2	25	
79-01-6	Trichloroethene	204	208	204	102	100	74-115	2	25	
123-91-1	1,4-Dioxane	206	221	219	107	106	77-124	0.9	25	
80-62-6	Methyl Methacrylate	410	417	413	102	101	78-126	1	25	
142-82-5	n-Heptane	206	204	199	99	97	70-119	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	226	222	109	107	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	424	412	103	100	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	200	205	200	103	100	80-127	3	25	
79-00-5	1,1,2-Trichloroethane	208	208	204	100	98	78-117	2	25	
108-88-3	Toluene	206	197	197	96	96	70-118	0	25	
591-78-6	2-Hexanone	406	403	402	99	99	74-132	0	25	
124-48-1	Dibromochloromethane	210	207	205	99	98	69-137	1	25	
106-93-4	1,2-Dibromoethane	208	210	212	101	102	76-128	1	25	
123-86-4	n-Butyl Acetate	406	395	394	97	97	75-134	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2105213
 ALS Sample ID: P211015-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/15/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	198	198	95	95	68-120	0	25	
127-18-4	Tetrachloroethene	212	196	197	92	93	63-130	1	25	
108-90-7	Chlorobenzene	206	200	200	97	97	70-118	0	25	
100-41-4	Ethylbenzene	206	201	202	98	98	71-123	0	25	
179601-23-1	m,p-Xylenes	416	391	392	94	94	67-127	0	25	
75-25-2	Bromoform	210	216	216	103	103	65-149	0	25	
100-42-5	Styrene	202	197	199	98	99	76-132	1	25	
95-47-6	o-Xylene	208	199	199	96	96	69-124	0	25	
111-84-2	n-Nonane	208	201	200	97	96	64-127	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	213	213	102	102	69-128	0	25	
98-82-8	Cumene	206	197	198	96	96	69-125	0	25	
80-56-8	alpha-Pinene	210	213	215	101	102	68-129	1	25	
103-65-1	n-Propylbenzene	208	189	189	91	91	70-127	0	25	
622-96-8	4-Ethyltoluene	208	211	211	101	101	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	204	204	98	98	66-129	0	25	
95-63-6	1,2,4-Trimethylbenzene	206	208	208	101	101	63-142	0	25	
100-44-7	Benzyl Chloride	416	407	408	98	98	73-145	0	25	
541-73-1	1,3-Dichlorobenzene	208	215	214	103	103	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	210	208	208	99	99	63-134	0	25	
95-50-1	1,2-Dichlorobenzene	210	206	206	98	98	64-139	0	25	
5989-27-5	d-Limonene	206	221	222	107	108	63-137	0.9	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	384	383	95	95	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	420	335	337	80	80	62-154	0	25	
91-20-3	Naphthalene	210	150	151	71	72	62-156	1	25	
87-68-3	Hexachlorobutadiene	212	196	195	92	92	55-142	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

January 31, 2022

Collin Creel
Environmental Management Services, Inc.
PO Box 15369
Hattiesburg, MS 39402

RE: SVE Performance Monitoring / KUH0-21-010

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on January 20, 2022. For your reference, these analyses have been assigned our service request number P2200253.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Sue Anderson
By Sue Anderson at 1:42 pm, Jan 31, 2022

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Environmental Management Services, Inc.
Project: SVE Performance Monitoring / KUH0-21-010

Service Request No: P2200253

CASE NARRATIVE

The samples were received intact under chain of custody on January 20, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criteria were exceeded for benzyl chloride, 1, 2-dichlorobenzene, 1, 2-dibromo-3-chloropropane, d-Limonene and 1, 2, 4-trichlorobenzene in the Continuing Calibration Verification (CCV) analyzed on January 25, 2022. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

The spike recovery of cyclohexane for the Laboratory Control Samples (LCS/DLCS) analyzed on January 25, 2022 was outside the laboratory generated control criterion. The recovery error equates to a potential high bias. However, the spike recovery of the analyte in question was within the method criteria; therefore, the data quality has not been significantly affected. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
 Project ID: SVE Performance Monitoring / KUH0-21-010

Service Request: P2200253

Date Received: 1/20/2022
 Time Received: 10:20

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SVE-OBS-01	P2200253-001	Air	12/29/2021	12:50	1SS00887	-0.47	6.06	0.73	6.58	X
SVE-OBS-02	P2200253-002	Air	12/29/2021	13:15	1SS01444	-0.96	6.49			X
SVE-OBS-03	P2200253-003	Air	12/29/2021	13:25	1SS00033	-0.68	6.75			X
SVE-OBS-04	P2200253-004	Air	12/29/2021	13:33	1SS01441	-1.39	6.50			X
SVE-OBS-05	P2200253-005	Air	12/29/2021	13:54	1SS01460	-1.19	10.65			X
SVE-OBS-07	P2200253-006	Air	12/29/2021	12:40	1SS01324	-1.33	5.91			X
SVE-OBS-08	P2200253-007	Air	12/29/2021	12:29	1SS00169	-0.70	5.79			X
SVE-OBS-09	P2200253-008	Air	12/29/2021	12:15	1SS01439	-1.30	6.20			X
SVE-EXT-02	P2200253-009	Air	12/29/2021	14:44	1SS01443	-0.88	6.26	0.17	2.16	X
SVE-EXT-03	P2200253-010	Air	12/29/2021	14:50	1SC00711	-1.60	6.96			X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard)

ALS Project No. 7220053

Project Name: SVE Performance Monitoring
Project Number: KUHO-21-010
P.O. # / Billing Information: KUHO-21-010 / Same as Reporting

ALS Contact: _____
Analysis Method: _____

Comments
e.g. Actual
Preservative or
specific instructions

Sampler (Print & Sign): Collin Creel Cuhmg@ALS

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume
SVE-OBS-01	1	12/21/21	12:50	15500887		-30	0	1L
SVE-OBS-02	2	12/21/21	13:15	15501444		-30	0	1L
SVE-OBS-03	3	12/21/21	13:25	15500053		-30	0	1L
SVE-OBS-04	4	12/21/21	13:33	15501441		-29	0	1L
SVE-OBS-05	5	12/21/21	13:54	15501460		-30	0	1L
SVE-OBS-07	6	12/21/21	12:40	15501324		-28	0	1L
SVE-OBS-08	7	12/21/21	12:29	15500169		-15	0	1L
SVE-OBS-09	8	12/21/21	12:15	15501439		-30	0	1L
SVE-EXT-02	9	12/21/21	14:44	15501443		-30	0	1L
SVE-EXT-03	10	12/21/21	14:50	15000711		-30	0	1L

Report Tier Levels - please select
 Tier I - Results (Default if not specified) _____
 Tier II (Results + QC Summaries)
 Tier III (Results + QC & Calibration Summaries) _____
 Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No _____ Units: _____
 Type: _____

Received by: (Signature) Cuhmg@ALS Date: 1/11/22 Time: 12:00
 Received by: (Signature) - Fed Ex Date: 1-20-22 Time: 10:20

Chain of Custody Seal: (Circle)
 INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP) _____
 Cooler / Blank Temperature _____ °C

**ALS Environmental
Sample Acceptance Check Form**

Client: Environmental Management Services, Inc.

Work order: P2200253

Project: SVE Performance Monitoring / KUH0-21-010

Sample(s) received on: 1/20/22

Date opened: 1/20/22

by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | | Yes | No | N/A |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 | Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | Were custody seals on outside of cooler/Box/Container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? <u>Box sealing.</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2200253-001.01	1.0 L Source Silonite Canister					
P2200253-002.01	1.0 L Source Silonite Canister					
P2200253-003.01	1.0 L Source Silonite Canister					
P2200253-004.01	1.0 L Source Silonite Canister					
P2200253-005.01	1.0 L Source Silonite Canister					
P2200253-006.01	1.0 L Source Silonite Canister					
P2200253-007.01	1.0 L Source Silonite Canister					
P2200253-008.01	1.0 L Source Silonite Canister					
P2200253-009.01	1.0 L Source Silonite Canister					
P2200253-010.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-01
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00887

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.47 Final Pressure (psig): 6.06
 Initial Pressure 2 (psig): 0.73 Final Pressure 2 (psig): 6.58

Canister Dilution Factor: 2.01

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	35	2.6	0.65	20	1.5	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	2.7	0.44	0.52	0.54	0.088	J
74-87-3	Chloromethane	0.47	2.6	0.43	0.23	1.2	0.21	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.7	0.42	ND	0.39	0.060	
75-01-4	Vinyl Chloride	ND	2.6	0.29	ND	1.0	0.11	
106-99-0	1,3-Butadiene	ND	2.6	0.44	ND	1.2	0.20	
74-83-9	Bromomethane	ND	2.6	0.37	ND	0.66	0.096	
75-00-3	Chloroethane	ND	2.6	0.33	ND	0.97	0.13	
64-17-5	Ethanol	3.1	25	1.9	1.7	13	0.99	J
75-05-8	Acetonitrile	1.3	5.0	0.65	0.77	3.0	0.39	J
107-02-8	Acrolein	ND	5.0	0.75	ND	2.2	0.33	
67-64-1	Acetone	11	26	6.0	4.6	11	2.5	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.6	0.41	0.20	0.47	0.072	J
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	1.1	ND	2.0	0.45	
107-13-1	Acrylonitrile	ND	5.0	0.55	ND	2.3	0.25	
75-35-4	1,1-Dichloroethene	3.0	2.7	0.37	0.76	0.68	0.094	
75-09-2	Methylene Chloride	ND	2.6	0.75	ND	0.75	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.7	0.36	ND	0.85	0.12	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.48	2.7	0.38	0.063	0.35	0.050	J
75-15-0	Carbon Disulfide	0.85	5.5	0.80	0.27	1.8	0.26	J
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.37	ND	0.67	0.094	
75-34-3	1,1-Dichloroethane	ND	2.7	0.39	ND	0.66	0.097	
1634-04-4	Methyl tert-Butyl Ether	ND	2.7	0.32	ND	0.74	0.088	
108-05-4	Vinyl Acetate	ND	25	6.0	ND	7.1	1.7	
78-93-3	2-Butanone (MEK)	1.3	5.0	0.55	0.44	1.7	0.19	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-01
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
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Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00887

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.47 Final Pressure (psig): 6.06
 Initial Pressure 2 (psig): 0.73 Final Pressure 2 (psig): 6.58

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.38	ND	0.66	0.095	
141-78-6	Ethyl Acetate	7.0	11	1.4	1.9	2.9	0.39	J
110-54-3	n-Hexane	ND	2.7	0.55	ND	0.76	0.16	
67-66-3	Chloroform	ND	2.7	0.36	ND	0.56	0.073	
109-99-9	Tetrahydrofuran (THF)	0.84	5.0	0.34	0.28	1.7	0.11	J
107-06-2	1,2-Dichloroethane	ND	2.7	0.30	ND	0.66	0.073	
71-55-6	1,1,1-Trichloroethane	4.7	2.6	0.33	0.86	0.48	0.061	
71-43-2	Benzene	1.0	2.5	0.39	0.32	0.79	0.12	J
56-23-5	Carbon Tetrachloride	ND	2.5	0.37	ND	0.40	0.059	
110-82-7	Cyclohexane	ND	5.5	0.75	ND	1.6	0.22	
78-87-5	1,2-Dichloropropane	ND	2.5	0.33	ND	0.54	0.072	
75-27-4	Bromodichloromethane	ND	2.7	0.39	ND	0.40	0.058	
79-01-6	Trichloroethene	ND	2.6	0.36	ND	0.49	0.067	
123-91-1	1,4-Dioxane	0.34	2.6	0.32	0.095	0.73	0.088	J
80-62-6	Methyl Methacrylate	ND	5.5	0.95	ND	1.4	0.23	
142-82-5	n-Heptane	ND	2.7	0.43	ND	0.65	0.10	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.42	ND	0.55	0.092	
108-10-1	4-Methyl-2-pentanone	ND	5.5	0.37	ND	1.3	0.090	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.55	ND	0.56	0.12	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.27	ND	0.48	0.050	
108-88-3	Toluene	0.51	2.6	0.33	0.13	0.69	0.087	J
591-78-6	2-Hexanone	0.43	5.5	0.33	0.11	1.3	0.081	J
124-48-1	Dibromochloromethane	ND	2.7	0.35	ND	0.31	0.041	
106-93-4	1,2-Dibromoethane	ND	2.6	0.31	ND	0.34	0.041	
123-86-4	n-Butyl Acetate	ND	5.5	0.37	ND	1.2	0.077	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Test Code: EPA TO-15

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Test Notes:

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Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.7	0.60	ND	0.57	0.13	
127-18-4	Tetrachloroethene	0.64	2.6	0.35	0.095	0.39	0.051	J
108-90-7	Chlorobenzene	ND	2.6	0.36	ND	0.57	0.078	
100-41-4	Ethylbenzene	ND	2.6	0.38	ND	0.60	0.087	
179601-23-1	m,p-Xylenes	0.91	5.5	0.70	0.21	1.3	0.16	J
75-25-2	Bromoform	ND	2.6	0.55	ND	0.25	0.053	
100-42-5	Styrene	ND	2.5	0.43	ND	0.59	0.10	
95-47-6	o-Xylene	0.45	2.6	0.39	0.10	0.60	0.089	J
111-84-2	n-Nonane	ND	2.6	0.45	ND	0.50	0.085	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.37	ND	0.38	0.054	
98-82-8	Cumene	ND	2.6	0.39	ND	0.53	0.079	
80-56-8	alpha-Pinene	ND	2.7	0.41	ND	0.49	0.074	
103-65-1	n-Propylbenzene	ND	2.7	0.39	ND	0.54	0.079	
622-96-8	4-Ethyltoluene	ND	2.7	0.43	ND	0.54	0.087	
108-67-8	1,3,5-Trimethylbenzene	ND	2.6	0.39	ND	0.53	0.079	
95-63-6	1,2,4-Trimethylbenzene	0.52	2.6	0.37	0.11	0.53	0.076	J
100-44-7	Benzyl Chloride	ND	5.5	0.60	ND	1.1	0.12	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.40	ND	0.43	0.067	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.41	ND	0.43	0.069	
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.40	ND	0.44	0.066	
5989-27-5	d-Limonene	1.5	2.5	0.55	0.27	0.45	0.099	J, V
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.50	ND	0.52	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.65	ND	0.74	0.088	
91-20-3	Naphthalene	1.6	2.6	0.65	0.30	0.50	0.12	J
87-68-3	Hexachlorobutadiene	ND	2.6	0.55	ND	0.25	0.052	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01444

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.96 Final Pressure (psig): 6.49

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	83	2.0	0.50	48	1.2	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.0	0.33	0.49	0.41	0.068	
74-87-3	Chloromethane	ND	2.0	0.33	ND	0.95	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.32	ND	0.30	0.046	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.78	0.086	
106-99-0	1,3-Butadiene	ND	2.0	0.34	ND	0.91	0.15	
74-83-9	Bromomethane	ND	2.0	0.28	ND	0.51	0.073	
75-00-3	Chloroethane	ND	2.0	0.25	ND	0.74	0.096	
64-17-5	Ethanol	3.5	19	1.4	1.9	10	0.76	J
75-05-8	Acetonitrile	ND	3.9	0.50	ND	2.3	0.30	
107-02-8	Acrolein	ND	3.9	0.58	ND	1.7	0.25	
67-64-1	Acetone	72	20	4.6	30	8.4	1.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.0	0.31	0.19	0.36	0.056	J
67-63-0	2-Propanol (Isopropyl Alcohol)	130	3.9	0.85	54	1.6	0.34	
107-13-1	Acrylonitrile	ND	3.9	0.42	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	1.1	2.1	0.28	0.27	0.52	0.072	J
75-09-2	Methylene Chloride	ND	2.0	0.58	ND	0.58	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.28	ND	0.65	0.089	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.47	2.1	0.29	0.062	0.27	0.038	J
75-15-0	Carbon Disulfide	2.0	4.2	0.62	0.64	1.4	0.20	J
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.28	ND	0.51	0.072	
75-34-3	1,1-Dichloroethane	ND	2.0	0.30	ND	0.50	0.074	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.24	ND	0.57	0.067	
108-05-4	Vinyl Acetate	ND	19	4.6	ND	5.5	1.3	
78-93-3	2-Butanone (MEK)	6.0	3.9	0.42	2.1	1.3	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01444

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.96 Final Pressure (psig): 6.49

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.51	0.073	
141-78-6	Ethyl Acetate	ND	8.1	1.1	ND	2.2	0.30	
110-54-3	n-Hexane	ND	2.0	0.42	ND	0.58	0.12	
67-66-3	Chloroform	0.34	2.1	0.27	0.069	0.43	0.056	J
109-99-9	Tetrahydrofuran (THF)	0.50	3.9	0.26	0.17	1.3	0.087	J
107-06-2	1,2-Dichloroethane	ND	2.0	0.23	ND	0.50	0.056	
71-55-6	1,1,1-Trichloroethane	1.7	2.0	0.25	0.31	0.37	0.047	J
71-43-2	Benzene	0.61	1.9	0.30	0.19	0.60	0.093	J
56-23-5	Carbon Tetrachloride	0.35	1.9	0.28	0.055	0.31	0.045	J
110-82-7	Cyclohexane	ND	4.2	0.58	ND	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	1.9	0.25	ND	0.42	0.055	
75-27-4	Bromodichloromethane	ND	2.0	0.30	ND	0.30	0.044	
79-01-6	Trichloroethene	ND	2.0	0.28	ND	0.37	0.052	
123-91-1	1,4-Dioxane	ND	2.0	0.24	ND	0.56	0.067	
80-62-6	Methyl Methacrylate	ND	4.2	0.73	ND	1.0	0.18	
142-82-5	n-Heptane	ND	2.0	0.33	ND	0.50	0.080	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.32	ND	0.42	0.070	
108-10-1	4-Methyl-2-pentanone	ND	4.2	0.28	ND	1.0	0.069	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.42	ND	0.43	0.093	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.21	ND	0.37	0.038	
108-88-3	Toluene	0.38	2.0	0.25	0.10	0.53	0.066	J
591-78-6	2-Hexanone	0.59	4.2	0.25	0.14	1.0	0.062	J
124-48-1	Dibromochloromethane	ND	2.0	0.27	ND	0.24	0.032	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	ND	4.2	0.28	ND	0.89	0.059	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01444

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.96 Final Pressure (psig): 6.49

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.0	0.46	ND	0.44	0.099	
127-18-4	Tetrachloroethene	0.52	2.0	0.27	0.076	0.30	0.039	J
108-90-7	Chlorobenzene	ND	2.0	0.27	ND	0.43	0.059	
100-41-4	Ethylbenzene	ND	2.0	0.29	ND	0.46	0.067	
179601-23-1	m,p-Xylenes	0.86	4.2	0.54	0.20	0.98	0.12	J
75-25-2	Bromoform	ND	2.0	0.42	ND	0.19	0.041	
100-42-5	Styrene	ND	1.9	0.33	ND	0.45	0.078	
95-47-6	o-Xylene	0.46	2.0	0.30	0.11	0.46	0.068	J
111-84-2	n-Nonane	ND	2.0	0.34	ND	0.38	0.065	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.28	ND	0.29	0.042	
98-82-8	Cumene	ND	2.0	0.30	ND	0.41	0.060	
80-56-8	alpha-Pinene	ND	2.1	0.32	ND	0.37	0.057	
103-65-1	n-Propylbenzene	ND	2.0	0.30	ND	0.42	0.060	
622-96-8	4-Ethyltoluene	ND	2.0	0.33	ND	0.42	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.30	ND	0.41	0.060	
95-63-6	1,2,4-Trimethylbenzene	0.54	2.0	0.28	0.11	0.41	0.058	J
100-44-7	Benzyl Chloride	ND	4.2	0.46	ND	0.82	0.089	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.33	0.051	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.32	ND	0.33	0.053	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.30	ND	0.34	0.051	
5989-27-5	d-Limonene	1.4	1.9	0.42	0.24	0.35	0.076	J, V
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	0.39	ND	0.40	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.50	ND	0.57	0.067	
91-20-3	Naphthalene	1.6	2.0	0.50	0.31	0.38	0.096	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ND	0.19	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-03
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00033

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.68 Final Pressure (psig): 6.75

Canister Dilution Factor: 1.53

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
115-07-1	Propene	3.4	2.0	0.50	2.0	1.2	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.0	0.33	0.51	0.41	0.067	
74-87-3	Chloromethane	ND	2.0	0.33	ND	0.95	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.32	ND	0.30	0.046	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.78	0.085	
106-99-0	1,3-Butadiene	ND	2.0	0.34	ND	0.90	0.15	
74-83-9	Bromomethane	ND	2.0	0.28	ND	0.50	0.073	
75-00-3	Chloroethane	ND	2.0	0.25	ND	0.74	0.096	
64-17-5	Ethanol	1.8	19	1.4	0.96	10	0.75	J
75-05-8	Acetonitrile	1.0	3.8	0.50	0.60	2.3	0.30	J
107-02-8	Acrolein	1.1	3.8	0.57	0.48	1.7	0.25	J
67-64-1	Acetone	64	20	4.6	27	8.4	1.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.0	0.31	0.20	0.35	0.055	J
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	3.8	0.84	ND	1.6	0.34	
107-13-1	Acrylonitrile	ND	3.8	0.42	ND	1.8	0.19	
75-35-4	1,1-Dichloroethene	3.4	2.1	0.28	0.86	0.52	0.071	
75-09-2	Methylene Chloride	ND	2.0	0.57	ND	0.57	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.28	ND	0.65	0.088	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.73	2.1	0.29	0.096	0.27	0.038	J
75-15-0	Carbon Disulfide	35	4.2	0.61	11	1.4	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.28	ND	0.51	0.071	
75-34-3	1,1-Dichloroethane	ND	2.0	0.30	ND	0.50	0.074	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.24	ND	0.56	0.067	
108-05-4	Vinyl Acetate	ND	19	4.6	ND	5.4	1.3	
78-93-3	2-Butanone (MEK)	2.4	3.8	0.42	0.83	1.3	0.14	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00033

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.68 Final Pressure (psig): 6.75

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.50	0.072	
141-78-6	Ethyl Acetate	ND	8.0	1.1	ND	2.2	0.30	
110-54-3	n-Hexane	ND	2.0	0.42	ND	0.58	0.12	
67-66-3	Chloroform	0.64	2.1	0.27	0.13	0.42	0.056	J
109-99-9	Tetrahydrofuran (THF)	0.65	3.8	0.26	0.22	1.3	0.087	J
107-06-2	1,2-Dichloroethane	ND	2.0	0.23	ND	0.50	0.056	
71-55-6	1,1,1-Trichloroethane	1.6	2.0	0.25	0.29	0.36	0.046	J
71-43-2	Benzene	0.49	1.9	0.29	0.15	0.60	0.092	J
56-23-5	Carbon Tetrachloride	0.33	1.9	0.28	0.052	0.30	0.045	J
110-82-7	Cyclohexane	ND	4.2	0.57	ND	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	1.9	0.25	ND	0.41	0.055	
75-27-4	Bromodichloromethane	ND	2.0	0.29	ND	0.30	0.044	
79-01-6	Trichloroethene	0.41	2.0	0.28	0.076	0.37	0.051	J
123-91-1	1,4-Dioxane	0.95	2.0	0.24	0.26	0.55	0.067	J
80-62-6	Methyl Methacrylate	ND	4.2	0.73	ND	1.0	0.18	
142-82-5	n-Heptane	ND	2.0	0.33	ND	0.49	0.079	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.32	ND	0.42	0.070	
108-10-1	4-Methyl-2-pentanone	ND	4.2	0.28	ND	1.0	0.068	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.42	ND	0.43	0.093	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.21	ND	0.36	0.038	
108-88-3	Toluene	0.51	2.0	0.25	0.14	0.53	0.066	J
591-78-6	2-Hexanone	0.44	4.2	0.25	0.11	1.0	0.062	J
124-48-1	Dibromochloromethane	ND	2.0	0.27	ND	0.24	0.031	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	0.36	4.2	0.28	0.077	0.89	0.059	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-003

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00033

Initial Pressure (psig): -0.68 Final Pressure (psig): 6.75

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.0	0.46	ND	0.43	0.098	
127-18-4	Tetrachloroethene	3.2	2.0	0.26	0.47	0.29	0.039	
108-90-7	Chlorobenzene	ND	2.0	0.27	ND	0.43	0.059	
100-41-4	Ethylbenzene	0.32	2.0	0.29	0.073	0.46	0.066	J
179601-23-1	m,p-Xylenes	1.4	4.2	0.54	0.32	0.97	0.12	J
75-25-2	Bromoform	ND	2.0	0.42	ND	0.19	0.041	
100-42-5	Styrene	ND	1.9	0.33	ND	0.45	0.077	
95-47-6	o-Xylene	0.63	2.0	0.29	0.14	0.46	0.068	J
111-84-2	n-Nonane	ND	2.0	0.34	ND	0.38	0.065	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.28	ND	0.29	0.041	
98-82-8	Cumene	ND	2.0	0.29	ND	0.40	0.060	
80-56-8	alpha-Pinene	ND	2.1	0.31	ND	0.37	0.056	
103-65-1	n-Propylbenzene	ND	2.0	0.29	ND	0.41	0.060	
622-96-8	4-Ethyltoluene	ND	2.0	0.33	ND	0.41	0.066	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.29	ND	0.40	0.060	
95-63-6	1,2,4-Trimethylbenzene	0.66	2.0	0.28	0.13	0.40	0.058	J
100-44-7	Benzyl Chloride	ND	4.2	0.46	ND	0.81	0.089	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.33	0.051	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.31	ND	0.33	0.052	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.30	ND	0.34	0.050	
5989-27-5	d-Limonene	1.7	1.9	0.42	0.31	0.34	0.076	J, V
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.38	ND	0.40	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.50	ND	0.57	0.067	
91-20-3	Naphthalene	0.85	2.0	0.50	0.16	0.38	0.095	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ND	0.19	0.039	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-004

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01441

Initial Pressure (psig): -1.39 Final Pressure (psig): 6.50

Canister Dilution Factor: 1.59

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	10	2.1	0.52	5.9	1.2	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.1	0.35	0.48	0.43	0.070	
74-87-3	Chloromethane	ND	2.0	0.34	ND	0.98	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.31	0.048	
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.81	0.089	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.93	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.52	0.076	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.77	0.099	
64-17-5	Ethanol	11	20	1.5	6.0	11	0.78	J
75-05-8	Acetonitrile	ND	4.0	0.52	ND	2.4	0.31	
107-02-8	Acrolein	1.1	4.0	0.60	0.47	1.7	0.26	J
67-64-1	Acetone	28	21	4.8	12	8.7	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.1	0.32	0.20	0.37	0.057	J
67-63-0	2-Propanol (Isopropyl Alcohol)	14	4.0	0.87	5.7	1.6	0.36	
107-13-1	Acrylonitrile	ND	4.0	0.44	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	ND	2.1	0.29	ND	0.54	0.074	
75-09-2	Methylene Chloride	ND	2.1	0.60	ND	0.60	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.29	ND	0.67	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.52	2.1	0.30	0.068	0.28	0.039	J
75-15-0	Carbon Disulfide	4.1	4.4	0.64	1.3	1.4	0.20	J
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.53	0.074	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.52	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.58	0.069	
108-05-4	Vinyl Acetate	ND	20	4.8	ND	5.6	1.4	
78-93-3	2-Butanone (MEK)	7.3	4.0	0.44	2.5	1.3	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-004

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01441

Initial Pressure (psig): -1.39 Final Pressure (psig): 6.50

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.52	0.075	
141-78-6	Ethyl Acetate	ND	8.3	1.1	ND	2.3	0.31	
110-54-3	n-Hexane	ND	2.1	0.44	ND	0.60	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.44	0.058	
109-99-9	Tetrahydrofuran (THF)	0.66	4.0	0.27	0.23	1.3	0.090	J
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.52	0.058	
71-55-6	1,1,1-Trichloroethane	1.3	2.1	0.26	0.24	0.38	0.048	J
71-43-2	Benzene	0.64	2.0	0.31	0.20	0.62	0.096	J
56-23-5	Carbon Tetrachloride	0.33	2.0	0.29	0.052	0.32	0.047	J
110-82-7	Cyclohexane	ND	4.4	0.60	ND	1.3	0.17	
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.43	0.057	
75-27-4	Bromodichloromethane	ND	2.1	0.31	ND	0.31	0.046	
79-01-6	Trichloroethene	ND	2.1	0.29	ND	0.38	0.053	
123-91-1	1,4-Dioxane	ND	2.1	0.25	ND	0.57	0.070	
80-62-6	Methyl Methacrylate	ND	4.4	0.76	ND	1.1	0.18	
142-82-5	n-Heptane	ND	2.1	0.34	ND	0.51	0.082	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.073	
108-10-1	4-Methyl-2-pentanone	ND	4.4	0.29	ND	1.1	0.071	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.44	ND	0.45	0.096	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.21	ND	0.38	0.039	
108-88-3	Toluene	0.64	2.1	0.26	0.17	0.55	0.069	J
591-78-6	2-Hexanone	0.90	4.4	0.26	0.22	1.1	0.064	J
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.033	
106-93-4	1,2-Dibromoethane	ND	2.1	0.25	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	ND	4.4	0.29	ND	0.92	0.061	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-04

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01441

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.39 Final Pressure (psig): 6.50

Canister Dilution Factor: 1.59

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.1	0.48	ND	0.45	0.10	
127-18-4	Tetrachloroethene	0.29	2.1	0.27	0.042	0.30	0.040	J
108-90-7	Chlorobenzene	ND	2.1	0.28	ND	0.45	0.061	
100-41-4	Ethylbenzene	ND	2.1	0.30	ND	0.48	0.069	
179601-23-1	m,p-Xylenes	0.89	4.4	0.56	0.20	1.0	0.13	J
75-25-2	Bromoform	ND	2.1	0.44	ND	0.20	0.042	
100-42-5	Styrene	ND	2.0	0.34	ND	0.47	0.080	
95-47-6	o-Xylene	0.40	2.1	0.31	0.092	0.48	0.070	J
111-84-2	n-Nonane	ND	2.1	0.35	ND	0.39	0.067	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.29	ND	0.30	0.043	
98-82-8	Cumene	ND	2.1	0.31	ND	0.42	0.062	
80-56-8	alpha-Pinene	ND	2.1	0.33	ND	0.39	0.059	
103-65-1	n-Propylbenzene	ND	2.1	0.31	ND	0.43	0.062	
622-96-8	4-Ethyltoluene	ND	2.1	0.34	ND	0.43	0.069	
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.31	ND	0.42	0.062	
95-63-6	1,2,4-Trimethylbenzene	0.52	2.1	0.29	0.11	0.42	0.060	J
100-44-7	Benzyl Chloride	ND	4.4	0.48	ND	0.84	0.092	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.34	0.053	
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.33	ND	0.34	0.054	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.35	0.052	
5989-27-5	d-Limonene	1.0	2.0	0.44	0.18	0.36	0.079	J, V
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.52	ND	0.59	0.070	
91-20-3	Naphthalene	1.4	2.1	0.52	0.27	0.39	0.099	J
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ND	0.19	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-05
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01460

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.19 Final Pressure (psig): 10.65

Canister Dilution Factor: 1.88

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
115-07-1	Propene	13	2.4	0.61	7.6	1.4	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.5	0.41	0.50	0.50	0.083	J
74-87-3	Chloromethane	ND	2.4	0.40	ND	1.2	0.20	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.39	ND	0.36	0.057	
75-01-4	Vinyl Chloride	ND	2.4	0.27	ND	0.96	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.41	ND	1.1	0.19	
74-83-9	Bromomethane	ND	2.4	0.35	ND	0.62	0.090	
75-00-3	Chloroethane	ND	2.4	0.31	ND	0.91	0.12	
64-17-5	Ethanol	29	24	1.7	15	12	0.92	
75-05-8	Acetonitrile	ND	4.7	0.61	ND	2.8	0.36	
107-02-8	Acrolein	2.2	4.7	0.71	0.94	2.1	0.31	J
67-64-1	Acetone	30	24	5.6	13	10	2.4	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.4	0.38	0.20	0.44	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	30	4.7	1.0	12	1.9	0.42	
107-13-1	Acrylonitrile	ND	4.7	0.52	ND	2.2	0.24	
75-35-4	1,1-Dichloroethene	ND	2.5	0.35	ND	0.64	0.088	
75-09-2	Methylene Chloride	ND	2.4	0.71	ND	0.70	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.5	0.34	ND	0.80	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.47	2.5	0.36	0.061	0.33	0.047	J
75-15-0	Carbon Disulfide	1.0	5.2	0.75	0.33	1.7	0.24	J
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.35	ND	0.63	0.088	
75-34-3	1,1-Dichloroethane	ND	2.5	0.37	ND	0.62	0.091	
1634-04-4	Methyl tert-Butyl Ether	ND	2.5	0.30	ND	0.69	0.082	
108-05-4	Vinyl Acetate	ND	24	5.6	ND	6.7	1.6	
78-93-3	2-Butanone (MEK)	9.1	4.7	0.52	3.1	1.6	0.18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-05

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01460

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.19 Final Pressure (psig): 10.65

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.35	ND	0.62	0.089	
141-78-6	Ethyl Acetate	ND	9.9	1.3	ND	2.7	0.37	
110-54-3	n-Hexane	ND	2.5	0.52	ND	0.71	0.15	
67-66-3	Chloroform	ND	2.5	0.33	ND	0.52	0.068	
109-99-9	Tetrahydrofuran (THF)	0.54	4.7	0.31	0.18	1.6	0.11	J
107-06-2	1,2-Dichloroethane	ND	2.5	0.28	ND	0.62	0.069	
71-55-6	1,1,1-Trichloroethane	0.96	2.4	0.31	0.18	0.45	0.057	J
71-43-2	Benzene	ND	2.4	0.36	ND	0.74	0.11	
56-23-5	Carbon Tetrachloride	ND	2.4	0.35	ND	0.37	0.055	
110-82-7	Cyclohexane	ND	5.2	0.71	ND	1.5	0.20	
78-87-5	1,2-Dichloropropane	ND	2.4	0.31	ND	0.51	0.067	
75-27-4	Bromodichloromethane	ND	2.5	0.36	ND	0.37	0.054	
79-01-6	Trichloroethene	ND	2.4	0.34	ND	0.45	0.063	
123-91-1	1,4-Dioxane	ND	2.4	0.30	ND	0.68	0.082	
80-62-6	Methyl Methacrylate	ND	5.2	0.89	ND	1.3	0.22	
142-82-5	n-Heptane	ND	2.5	0.40	ND	0.61	0.098	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.39	ND	0.52	0.086	
108-10-1	4-Methyl-2-pentanone	ND	5.2	0.34	ND	1.3	0.084	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.52	ND	0.53	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.25	ND	0.45	0.047	
108-88-3	Toluene	0.33	2.4	0.31	0.087	0.65	0.081	J
591-78-6	2-Hexanone	1.3	5.2	0.31	0.31	1.3	0.076	J
124-48-1	Dibromochloromethane	ND	2.5	0.33	ND	0.29	0.039	
106-93-4	1,2-Dibromoethane	ND	2.4	0.29	ND	0.32	0.038	
123-86-4	n-Butyl Acetate	ND	5.2	0.34	ND	1.1	0.072	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-05

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-005

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01460

Initial Pressure (psig): -1.19 Final Pressure (psig): 10.65

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.5	0.56	ND	0.53	0.12	
127-18-4	Tetrachloroethene	0.49	2.4	0.32	0.073	0.36	0.048	J
108-90-7	Chlorobenzene	ND	2.4	0.33	ND	0.53	0.072	
100-41-4	Ethylbenzene	ND	2.4	0.35	ND	0.56	0.081	
179601-23-1	m,p-Xylenes	0.84	5.2	0.66	0.19	1.2	0.15	J
75-25-2	Bromoform	ND	2.4	0.52	ND	0.24	0.050	
100-42-5	Styrene	ND	2.4	0.40	ND	0.55	0.095	
95-47-6	o-Xylene	0.37	2.4	0.36	0.084	0.56	0.083	J
111-84-2	n-Nonane	ND	2.4	0.42	ND	0.47	0.080	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.35	ND	0.36	0.051	
98-82-8	Cumene	ND	2.4	0.36	ND	0.50	0.074	
80-56-8	alpha-Pinene	ND	2.5	0.39	ND	0.46	0.069	
103-65-1	n-Propylbenzene	ND	2.5	0.36	ND	0.51	0.074	
622-96-8	4-Ethyltoluene	ND	2.5	0.40	ND	0.51	0.081	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.36	ND	0.50	0.074	
95-63-6	1,2,4-Trimethylbenzene	0.48	2.4	0.35	0.098	0.50	0.071	J
100-44-7	Benzyl Chloride	ND	5.2	0.56	ND	1.0	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.38	ND	0.41	0.063	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.39	ND	0.41	0.064	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.37	ND	0.41	0.062	
5989-27-5	d-Limonene	0.86	2.4	0.52	0.15	0.42	0.093	J, V
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	0.47	ND	0.49	0.049	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.61	ND	0.70	0.082	
91-20-3	Naphthalene	1.5	2.4	0.61	0.29	0.47	0.12	J
87-68-3	Hexachlorobutadiene	ND	2.4	0.52	ND	0.23	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01324

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.33 Final Pressure (psig): 5.91

Canister Dilution Factor: 1.54

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	6.7	2.0	0.50	3.9	1.2	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.0	0.33	0.49	0.41	0.068	
74-87-3	Chloromethane	ND	2.0	0.33	ND	0.95	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.32	ND	0.30	0.046	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.78	0.086	
106-99-0	1,3-Butadiene	ND	2.0	0.34	ND	0.91	0.15	
74-83-9	Bromomethane	ND	2.0	0.28	ND	0.51	0.073	
75-00-3	Chloroethane	ND	2.0	0.25	ND	0.74	0.096	
64-17-5	Ethanol	2.4	19	1.4	1.3	10	0.76	J
75-05-8	Acetonitrile	ND	3.9	0.50	ND	2.3	0.30	
107-02-8	Acrolein	ND	3.9	0.58	ND	1.7	0.25	
67-64-1	Acetone	34	20	4.6	14	8.4	1.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.0	0.31	0.22	0.36	0.056	J
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	3.9	0.85	ND	1.6	0.34	
107-13-1	Acrylonitrile	ND	3.9	0.42	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	320	2.1	0.28	80	0.52	0.072	
75-09-2	Methylene Chloride	ND	2.0	0.58	ND	0.58	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.28	ND	0.65	0.089	
76-13-1	Trichlorotrifluoroethane (CFC 113)	1.1	2.1	0.29	0.14	0.27	0.038	J
75-15-0	Carbon Disulfide	ND	4.2	0.62	ND	1.4	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.28	ND	0.51	0.072	
75-34-3	1,1-Dichloroethane	4.6	2.0	0.30	1.1	0.50	0.074	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.24	ND	0.57	0.067	
108-05-4	Vinyl Acetate	ND	19	4.6	ND	5.5	1.3	
78-93-3	2-Butanone (MEK)	2.9	3.9	0.42	0.98	1.3	0.14	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01324

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.33 Final Pressure (psig): 5.91

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.51	0.073	
141-78-6	Ethyl Acetate	ND	8.1	1.1	ND	2.2	0.30	
110-54-3	n-Hexane	ND	2.0	0.42	ND	0.58	0.12	
67-66-3	Chloroform	1.2	2.1	0.27	0.24	0.43	0.056	J
109-99-9	Tetrahydrofuran (THF)	0.95	3.9	0.26	0.32	1.3	0.087	J
107-06-2	1,2-Dichloroethane	0.93	2.0	0.23	0.23	0.50	0.056	J
71-55-6	1,1,1-Trichloroethane	2.2	2.0	0.25	0.39	0.37	0.047	
71-43-2	Benzene	0.33	1.9	0.30	0.10	0.60	0.093	J
56-23-5	Carbon Tetrachloride	0.64	1.9	0.28	0.10	0.31	0.045	J
110-82-7	Cyclohexane	ND	4.2	0.58	ND	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	1.9	0.25	ND	0.42	0.055	
75-27-4	Bromodichloromethane	ND	2.0	0.30	ND	0.30	0.044	
79-01-6	Trichloroethene	0.91	2.0	0.28	0.17	0.37	0.052	J
123-91-1	1,4-Dioxane	ND	2.0	0.24	ND	0.56	0.067	
80-62-6	Methyl Methacrylate	ND	4.2	0.73	ND	1.0	0.18	
142-82-5	n-Heptane	ND	2.0	0.33	ND	0.50	0.080	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.32	ND	0.42	0.070	
108-10-1	4-Methyl-2-pentanone	ND	4.2	0.28	ND	1.0	0.069	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.42	ND	0.43	0.093	
79-00-5	1,1,2-Trichloroethane	1.4	2.0	0.21	0.26	0.37	0.038	J
108-88-3	Toluene	0.34	2.0	0.25	0.090	0.53	0.066	J
591-78-6	2-Hexanone	0.69	4.2	0.25	0.17	1.0	0.062	J
124-48-1	Dibromochloromethane	ND	2.0	0.27	ND	0.24	0.032	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	ND	4.2	0.28	ND	0.89	0.059	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-07

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-006

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01324

Initial Pressure (psig): -1.33 Final Pressure (psig): 5.91

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.0	0.46	ND	0.44	0.099	
127-18-4	Tetrachloroethene	8.1	2.0	0.27	1.2	0.30	0.039	
108-90-7	Chlorobenzene	ND	2.0	0.27	ND	0.43	0.059	
100-41-4	Ethylbenzene	ND	2.0	0.29	ND	0.46	0.067	
179601-23-1	m,p-Xylenes	0.70	4.2	0.54	0.16	0.98	0.12	J
75-25-2	Bromoform	ND	2.0	0.42	ND	0.19	0.041	
100-42-5	Styrene	ND	1.9	0.33	ND	0.45	0.078	
95-47-6	o-Xylene	0.32	2.0	0.30	0.074	0.46	0.068	J
111-84-2	n-Nonane	ND	2.0	0.34	ND	0.38	0.065	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.28	ND	0.29	0.042	
98-82-8	Cumene	ND	2.0	0.30	ND	0.41	0.060	
80-56-8	alpha-Pinene	ND	2.1	0.32	ND	0.37	0.057	
103-65-1	n-Propylbenzene	ND	2.0	0.30	ND	0.42	0.060	
622-96-8	4-Ethyltoluene	ND	2.0	0.33	ND	0.42	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.30	ND	0.41	0.060	
95-63-6	1,2,4-Trimethylbenzene	0.59	2.0	0.28	0.12	0.41	0.058	J
100-44-7	Benzyl Chloride	ND	4.2	0.46	ND	0.82	0.089	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.33	0.051	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.32	ND	0.33	0.053	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.30	ND	0.34	0.051	
5989-27-5	d-Limonene	14	1.9	0.42	2.6	0.35	0.076	V
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	0.39	ND	0.40	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.50	ND	0.57	0.067	
91-20-3	Naphthalene	5.7	2.0	0.50	1.1	0.38	0.096	
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ND	0.19	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-08

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-007

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00169

Initial Pressure (psig): -0.70 Final Pressure (psig): 5.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	20	1.9	0.47	12	1.1	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	1.9	0.32	0.47	0.39	0.064	
74-87-3	Chloromethane	0.58	1.9	0.31	0.28	0.90	0.15	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.31	ND	0.28	0.044	
75-01-4	Vinyl Chloride	ND	1.9	0.21	ND	0.74	0.081	
106-99-0	1,3-Butadiene	ND	1.9	0.32	ND	0.86	0.15	
74-83-9	Bromomethane	ND	1.9	0.27	ND	0.48	0.070	
75-00-3	Chloroethane	ND	1.9	0.24	ND	0.71	0.091	
64-17-5	Ethanol	150	18	1.4	80	9.7	0.72	
75-05-8	Acetonitrile	0.80	3.7	0.47	0.48	2.2	0.28	J
107-02-8	Acrolein	3.3	3.7	0.55	1.4	1.6	0.24	J
67-64-1	Acetone	79	19	4.4	33	8.0	1.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	1.9	0.30	0.20	0.34	0.053	J
67-63-0	2-Propanol (Isopropyl Alcohol)	22	3.7	0.80	9.2	1.5	0.33	
107-13-1	Acrylonitrile	ND	3.7	0.40	ND	1.7	0.19	
75-35-4	1,1-Dichloroethene	130	2.0	0.27	32	0.50	0.068	
75-09-2	Methylene Chloride	1.7	1.9	0.55	0.49	0.55	0.16	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.26	ND	0.62	0.084	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.43	2.0	0.28	0.056	0.26	0.036	J
75-15-0	Carbon Disulfide	18	4.0	0.58	5.7	1.3	0.19	
156-60-5	trans-1,2-Dichloroethene	0.42	1.9	0.27	0.11	0.49	0.068	J
75-34-3	1,1-Dichloroethane	5.7	1.9	0.28	1.4	0.48	0.070	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.23	ND	0.54	0.064	
108-05-4	Vinyl Acetate	9.2	18	4.4	2.6	5.2	1.2	J
78-93-3	2-Butanone (MEK)	6.5	3.7	0.40	2.2	1.2	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-OBS-08
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00169

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.70 Final Pressure (psig): 5.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.27	ND	0.48	0.069	
141-78-6	Ethyl Acetate	160	7.7	1.0	44	2.1	0.28	
110-54-3	n-Hexane	13	1.9	0.40	3.6	0.55	0.11	
67-66-3	Chloroform	0.82	2.0	0.26	0.17	0.40	0.053	J
109-99-9	Tetrahydrofuran (THF)	4.8	3.7	0.24	1.6	1.2	0.083	
107-06-2	1,2-Dichloroethane	1.1	1.9	0.22	0.28	0.48	0.053	J
71-55-6	1,1,1-Trichloroethane	12	1.9	0.24	2.2	0.35	0.044	
71-43-2	Benzene	2.1	1.8	0.28	0.64	0.57	0.088	
56-23-5	Carbon Tetrachloride	0.36	1.8	0.27	0.057	0.29	0.043	J
110-82-7	Cyclohexane	3.6	4.0	0.55	1.0	1.2	0.16	J
78-87-5	1,2-Dichloropropane	0.59	1.8	0.24	0.13	0.40	0.052	J
75-27-4	Bromodichloromethane	ND	1.9	0.28	ND	0.29	0.042	
79-01-6	Trichloroethene	0.38	1.9	0.26	0.071	0.35	0.049	J
123-91-1	1,4-Dioxane	1.0	1.9	0.23	0.29	0.53	0.064	J
80-62-6	Methyl Methacrylate	ND	4.0	0.69	ND	0.98	0.17	
142-82-5	n-Heptane	3.1	1.9	0.31	0.75	0.47	0.076	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.30	ND	0.40	0.067	
108-10-1	4-Methyl-2-pentanone	0.67	4.0	0.27	0.16	0.98	0.065	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.40	ND	0.41	0.088	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.20	ND	0.35	0.036	
108-88-3	Toluene	49	1.9	0.24	13	0.50	0.063	
591-78-6	2-Hexanone	ND	4.0	0.24	ND	0.98	0.059	
124-48-1	Dibromochloromethane	ND	1.9	0.26	ND	0.23	0.030	
106-93-4	1,2-Dibromoethane	ND	1.9	0.23	ND	0.25	0.029	
123-86-4	n-Butyl Acetate	2.3	4.0	0.27	0.48	0.85	0.056	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-08

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00169

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.70 Final Pressure (psig): 5.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.5	1.9	0.44	0.31	0.41	0.094	J
127-18-4	Tetrachloroethene	20	1.9	0.25	3.0	0.28	0.037	
108-90-7	Chlorobenzene	ND	1.9	0.26	ND	0.41	0.056	
100-41-4	Ethylbenzene	2.2	1.9	0.27	0.50	0.44	0.063	
179601-23-1	m,p-Xylenes	6.2	4.0	0.51	1.4	0.92	0.12	
75-25-2	Bromoform	ND	1.9	0.40	ND	0.18	0.039	
100-42-5	Styrene	0.66	1.8	0.31	0.16	0.43	0.074	J
95-47-6	o-Xylene	2.8	1.9	0.28	0.65	0.44	0.065	
111-84-2	n-Nonane	2.4	1.9	0.32	0.46	0.36	0.062	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.27	ND	0.28	0.039	
98-82-8	Cumene	ND	1.9	0.28	ND	0.39	0.057	
80-56-8	alpha-Pinene	3.4	2.0	0.30	0.62	0.35	0.054	
103-65-1	n-Propylbenzene	0.44	1.9	0.28	0.089	0.39	0.057	J
622-96-8	4-Ethyltoluene	0.46	1.9	0.31	0.094	0.39	0.063	J
108-67-8	1,3,5-Trimethylbenzene	0.57	1.9	0.28	0.12	0.39	0.057	J
95-63-6	1,2,4-Trimethylbenzene	2.0	1.9	0.27	0.40	0.39	0.055	
100-44-7	Benzyl Chloride	ND	4.0	0.44	ND	0.78	0.085	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.29	ND	0.32	0.049	
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.30	ND	0.32	0.050	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.29	ND	0.32	0.048	
5989-27-5	d-Limonene	14	1.8	0.40	2.5	0.33	0.072	V
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.7	0.37	ND	0.38	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.47	ND	0.54	0.064	
91-20-3	Naphthalene	1.4	1.9	0.47	0.27	0.36	0.091	J
87-68-3	Hexachlorobutadiene	ND	1.9	0.40	ND	0.18	0.038	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-09

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-008

Test Code: EPA TO-15

Date Collected: 12/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/20/22

Analyst: Wida Ang

Date Analyzed: 1/25/22

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01439

Initial Pressure (psig): -1.30 Final Pressure (psig): 6.20

Canister Dilution Factor: 1.56

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	60	2.0	0.51	35	1.2	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.1	0.34	0.50	0.42	0.069	
74-87-3	Chloromethane	ND	2.0	0.34	ND	0.96	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.30	0.047	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.79	0.087	
106-99-0	1,3-Butadiene	ND	2.0	0.34	ND	0.92	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.51	0.074	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.75	0.098	
64-17-5	Ethanol	3.2	20	1.4	1.7	10	0.77	J
75-05-8	Acetonitrile	ND	3.9	0.51	ND	2.3	0.30	
107-02-8	Acrolein	1.4	3.9	0.59	0.59	1.7	0.26	J
67-64-1	Acetone	29	20	4.7	12	8.5	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.0	0.32	0.21	0.36	0.056	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	3.9	0.86	0.82	1.6	0.35	J
107-13-1	Acrylonitrile	ND	3.9	0.43	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	2.8	2.1	0.29	0.71	0.53	0.073	
75-09-2	Methylene Chloride	ND	2.0	0.59	ND	0.58	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.28	ND	0.66	0.090	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.47	2.1	0.30	0.062	0.27	0.039	J
75-15-0	Carbon Disulfide	1.6	4.3	0.62	0.53	1.4	0.20	J
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.52	0.073	
75-34-3	1,1-Dichloroethane	ND	2.1	0.30	ND	0.51	0.075	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.57	0.068	
108-05-4	Vinyl Acetate	ND	20	4.7	ND	5.5	1.3	
78-93-3	2-Butanone (MEK)	8.5	3.9	0.43	2.9	1.3	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-09

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01439

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.30 Final Pressure (psig): 6.20

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.51	0.074	
141-78-6	Ethyl Acetate	5.6	8.2	1.1	1.5	2.3	0.30	J
110-54-3	n-Hexane	ND	2.1	0.43	ND	0.59	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.43	0.057	
109-99-9	Tetrahydrofuran (THF)	1.1	3.9	0.26	0.36	1.3	0.089	J
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.51	0.057	
71-55-6	1,1,1-Trichloroethane	4.1	2.0	0.26	0.75	0.37	0.047	
71-43-2	Benzene	0.76	2.0	0.30	0.24	0.61	0.094	J
56-23-5	Carbon Tetrachloride	0.37	2.0	0.29	0.058	0.31	0.046	J
110-82-7	Cyclohexane	ND	4.3	0.59	ND	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.42	0.056	
75-27-4	Bromodichloromethane	ND	2.1	0.30	ND	0.31	0.045	
79-01-6	Trichloroethene	ND	2.0	0.28	ND	0.38	0.052	
123-91-1	1,4-Dioxane	0.34	2.0	0.25	0.093	0.56	0.068	J
80-62-6	Methyl Methacrylate	ND	4.3	0.74	ND	1.0	0.18	
142-82-5	n-Heptane	ND	2.1	0.33	ND	0.50	0.081	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.32	ND	0.43	0.071	
108-10-1	4-Methyl-2-pentanone	ND	4.3	0.28	ND	1.0	0.069	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ND	0.44	0.095	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.21	ND	0.37	0.039	
108-88-3	Toluene	0.61	2.0	0.25	0.16	0.54	0.067	J
591-78-6	2-Hexanone	1.0	4.3	0.26	0.25	1.0	0.063	J
124-48-1	Dibromochloromethane	ND	2.1	0.27	ND	0.24	0.032	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	ND	4.3	0.28	ND	0.90	0.060	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-OBS-09

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01439

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/25/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.30 Final Pressure (psig): 6.20

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.1	0.47	ND	0.44	0.10	
127-18-4	Tetrachloroethene	3.6	2.0	0.27	0.53	0.30	0.040	
108-90-7	Chlorobenzene	ND	2.0	0.28	ND	0.44	0.060	
100-41-4	Ethylbenzene	ND	2.0	0.29	ND	0.47	0.067	
179601-23-1	m,p-Xylenes	0.61	4.3	0.55	0.14	0.99	0.13	J
75-25-2	Bromoform	ND	2.0	0.43	ND	0.20	0.042	
100-42-5	Styrene	ND	2.0	0.34	ND	0.46	0.079	
95-47-6	o-Xylene	0.41	2.0	0.30	0.095	0.47	0.069	J
111-84-2	n-Nonane	ND	2.0	0.35	ND	0.39	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.29	ND	0.30	0.042	
98-82-8	Cumene	ND	2.0	0.30	ND	0.41	0.061	
80-56-8	alpha-Pinene	ND	2.1	0.32	ND	0.38	0.057	
103-65-1	n-Propylbenzene	ND	2.1	0.30	ND	0.42	0.061	
622-96-8	4-Ethyltoluene	ND	2.1	0.33	ND	0.42	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.30	ND	0.41	0.061	
95-63-6	1,2,4-Trimethylbenzene	0.51	2.0	0.29	0.10	0.41	0.059	J
100-44-7	Benzyl Chloride	ND	4.3	0.47	ND	0.83	0.090	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.34	0.052	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.32	ND	0.34	0.053	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.34	0.051	
5989-27-5	d-Limonene	9.3	2.0	0.43	1.7	0.35	0.077	V
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	0.39	ND	0.40	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	0.51	ND	0.58	0.068	
91-20-3	Naphthalene	5.4	2.0	0.51	1.0	0.39	0.097	
87-68-3	Hexachlorobutadiene	ND	2.0	0.43	ND	0.19	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-02
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01443

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 0.125 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 6.26
 Initial Pressure 2 (psig): 0.17 Final Pressure 2 (psig): 2.16

Canister Dilution Factor: 1.72

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	140	7.2	1.8	79	4.2	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	7.3	1.2	0.50	1.5	0.24	J
74-87-3	Chloromethane	2.6	7.0	1.2	1.3	3.4	0.57	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.4	1.2	ND	1.1	0.17	
75-01-4	Vinyl Chloride	ND	7.2	0.78	ND	2.8	0.31	
106-99-0	1,3-Butadiene	ND	7.2	1.2	ND	3.2	0.55	
74-83-9	Bromomethane	ND	7.0	1.0	ND	1.8	0.26	
75-00-3	Chloroethane	ND	7.0	0.91	ND	2.7	0.34	
64-17-5	Ethanol	35	69	5.1	19	37	2.7	J
75-05-8	Acetonitrile	ND	14	1.8	ND	8.2	1.1	
107-02-8	Acrolein	2.7	14	2.1	1.2	6.0	0.90	J
67-64-1	Acetone	30	72	17	13	30	7.0	J
75-69-4	Trichlorofluoromethane (CFC 11)	ND	7.2	1.1	ND	1.3	0.20	
67-63-0	2-Propanol (Isopropyl Alcohol)	290	14	3.0	120	5.6	1.2	
107-13-1	Acrylonitrile	ND	14	1.5	ND	6.3	0.70	
75-35-4	1,1-Dichloroethene	120	7.4	1.0	30	1.9	0.26	
75-09-2	Methylene Chloride	ND	7.2	2.1	ND	2.1	0.59	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.3	0.99	ND	2.3	0.32	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	7.4	1.0	ND	0.97	0.14	
75-15-0	Carbon Disulfide	3.5	15	2.2	1.1	4.9	0.71	J
156-60-5	trans-1,2-Dichloroethene	ND	7.3	1.0	ND	1.8	0.26	
75-34-3	1,1-Dichloroethane	2.9	7.3	1.1	0.71	1.8	0.27	J
1634-04-4	Methyl tert-Butyl Ether	ND	7.3	0.87	ND	2.0	0.24	
108-05-4	Vinyl Acetate	ND	69	17	ND	20	4.7	
78-93-3	2-Butanone (MEK)	11	14	1.5	3.7	4.7	0.51	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01443

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/26/22

Volume(s) Analyzed: 0.125 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 6.26
 Initial Pressure 2 (psig): 0.17 Final Pressure 2 (psig): 2.16

Canister Dilution Factor: 1.72

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	7.2	1.0	ND	1.8	0.26	
141-78-6	Ethyl Acetate	ND	29	3.9	ND	8.0	1.1	
110-54-3	n-Hexane	6.5	7.3	1.5	1.9	2.1	0.43	J
67-66-3	Chloroform	1.3	7.4	0.98	0.26	1.5	0.20	J
109-99-9	Tetrahydrofuran (THF)	6.4	14	0.92	2.2	4.7	0.31	J
107-06-2	1,2-Dichloroethane	ND	7.3	0.81	ND	1.8	0.20	
71-55-6	1,1,1-Trichloroethane	28	7.2	0.91	5.1	1.3	0.17	
71-43-2	Benzene	10	6.9	1.1	3.2	2.2	0.33	
56-23-5	Carbon Tetrachloride	ND	6.9	1.0	ND	1.1	0.16	
110-82-7	Cyclohexane	ND	15	2.1	ND	4.4	0.60	
78-87-5	1,2-Dichloropropane	ND	6.9	0.91	ND	1.5	0.20	
75-27-4	Bromodichloromethane	ND	7.3	1.1	ND	1.1	0.16	
79-01-6	Trichloroethene	1.3	7.2	0.99	0.25	1.3	0.18	J
123-91-1	1,4-Dioxane	6,000	36	4.3	1,700	9.9	1.2	D
80-62-6	Methyl Methacrylate	ND	15	2.6	ND	3.7	0.64	
142-82-5	n-Heptane	ND	7.3	1.2	ND	1.8	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	1.1	ND	1.5	0.25	
108-10-1	4-Methyl-2-pentanone	1.5	15	1.0	0.37	3.7	0.25	J
10061-02-6	trans-1,3-Dichloropropene	ND	7.0	1.5	ND	1.5	0.33	
79-00-5	1,1,2-Trichloroethane	0.89	7.2	0.74	0.16	1.3	0.14	J
108-88-3	Toluene	4.0	7.2	0.89	1.1	1.9	0.24	J
591-78-6	2-Hexanone	1.2	15	0.91	0.28	3.7	0.22	J
124-48-1	Dibromochloromethane	ND	7.3	0.96	ND	0.86	0.11	
106-93-4	1,2-Dibromoethane	ND	7.2	0.85	ND	0.93	0.11	
123-86-4	n-Butyl Acetate	1.2	15	1.0	0.24	3.2	0.21	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01443

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/26/22

Volume(s) Analyzed: 0.125 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 6.26
 Initial Pressure 2 (psig): 0.17 Final Pressure 2 (psig): 2.16

Canister Dilution Factor: 1.72

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	20	7.3	1.7	4.3	1.6	0.35	
127-18-4	Tetrachloroethene	5.7	7.2	0.95	0.85	1.1	0.14	J
108-90-7	Chlorobenzene	ND	7.2	0.98	ND	1.6	0.21	
100-41-4	Ethylbenzene	1.9	7.2	1.0	0.43	1.6	0.24	J
179601-23-1	m,p-Xylenes	8.7	15	1.9	2.0	3.5	0.44	J
75-25-2	Bromoform	ND	7.2	1.5	ND	0.69	0.15	
100-42-5	Styrene	ND	6.9	1.2	ND	1.6	0.28	
95-47-6	o-Xylene	5.0	7.2	1.1	1.2	1.6	0.24	J
111-84-2	n-Nonane	ND	7.2	1.2	ND	1.4	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.2	1.0	ND	1.0	0.15	
98-82-8	Cumene	ND	7.2	1.1	ND	1.5	0.22	
80-56-8	alpha-Pinene	ND	7.4	1.1	ND	1.3	0.20	
103-65-1	n-Propylbenzene	ND	7.3	1.1	ND	1.5	0.22	
622-96-8	4-Ethyltoluene	ND	7.3	1.2	ND	1.5	0.24	
108-67-8	1,3,5-Trimethylbenzene	1.3	7.2	1.1	0.27	1.5	0.22	J
95-63-6	1,2,4-Trimethylbenzene	6.1	7.2	1.0	1.2	1.5	0.21	J
100-44-7	Benzyl Chloride	ND	15	1.7	ND	2.9	0.32	
541-73-1	1,3-Dichlorobenzene	ND	7.2	1.1	ND	1.2	0.18	
106-46-7	1,4-Dichlorobenzene	ND	7.2	1.1	ND	1.2	0.19	
95-50-1	1,2-Dichlorobenzene	ND	7.3	1.1	ND	1.2	0.18	
5989-27-5	d-Limonene	9.0	6.9	1.5	1.6	1.2	0.27	
96-12-8	1,2-Dibromo-3-chloropropane	ND	14	1.4	ND	1.4	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	15	1.8	ND	2.0	0.24	
91-20-3	Naphthalene	14	7.2	1.8	2.6	1.4	0.34	
87-68-3	Hexachlorobutadiene	ND	7.2	1.5	ND	0.67	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-03
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P2200253-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00711

Date Collected: 12/29/21
 Date Received: 1/20/22
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 0.125 Liter(s)
 0.025 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 6.96

Canister Dilution Factor: 1.65

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	40	6.9	1.7	23	4.0	1.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	7.0	1.1	0.42	1.4	0.23	J
74-87-3	Chloromethane	1.2	6.7	1.1	0.59	3.3	0.55	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.1	1.1	ND	1.0	0.16	
75-01-4	Vinyl Chloride	ND	6.9	0.75	ND	2.7	0.29	
106-99-0	1,3-Butadiene	ND	6.9	1.2	ND	3.1	0.53	
74-83-9	Bromomethane	ND	6.7	0.98	ND	1.7	0.25	
75-00-3	Chloroethane	ND	6.7	0.87	ND	2.6	0.33	
64-17-5	Ethanol	ND	66	4.9	ND	35	2.6	
75-05-8	Acetonitrile	ND	13	1.7	ND	7.9	1.0	
107-02-8	Acrolein	2.6	13	2.0	1.1	5.8	0.86	J
67-64-1	Acetone	29	69	16	12	29	6.7	J
75-69-4	Trichlorofluoromethane (CFC 11)	ND	6.9	1.1	ND	1.2	0.19	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	13	2.9	ND	5.4	1.2	
107-13-1	Acrylonitrile	ND	13	1.5	ND	6.1	0.67	
75-35-4	1,1-Dichloroethene	11	7.1	0.98	2.7	1.8	0.25	
75-09-2	Methylene Chloride	ND	6.9	2.0	ND	2.0	0.57	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.0	0.95	ND	2.2	0.30	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	7.1	1.0	ND	0.93	0.13	
75-15-0	Carbon Disulfide	13	15	2.1	4.2	4.7	0.68	J
156-60-5	trans-1,2-Dichloroethene	ND	7.0	0.98	ND	1.8	0.25	
75-34-3	1,1-Dichloroethane	ND	7.0	1.0	ND	1.7	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	7.0	0.83	ND	1.9	0.23	
108-05-4	Vinyl Acetate	ND	66	16	ND	19	4.5	
78-93-3	2-Butanone (MEK)	5.5	13	1.5	1.8	4.5	0.49	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00711

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/26/22

Volume(s) Analyzed: 0.125 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 6.96

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	6.9	0.99	ND	1.7	0.25	
141-78-6	Ethyl Acetate	5.0	28	3.7	1.4	7.7	1.0	J
110-54-3	n-Hexane	2.7	7.0	1.5	0.76	2.0	0.41	J
67-66-3	Chloroform	ND	7.1	0.94	ND	1.5	0.19	
109-99-9	Tetrahydrofuran (THF)	1.3	13	0.88	0.46	4.5	0.30	J
107-06-2	1,2-Dichloroethane	ND	7.0	0.78	ND	1.7	0.19	
71-55-6	1,1,1-Trichloroethane	7.6	6.9	0.87	1.4	1.3	0.16	
71-43-2	Benzene	6.5	6.6	1.0	2.0	2.1	0.32	J
56-23-5	Carbon Tetrachloride	ND	6.6	0.98	ND	1.0	0.16	
110-82-7	Cyclohexane	ND	15	2.0	ND	4.2	0.58	
78-87-5	1,2-Dichloropropane	ND	6.6	0.87	ND	1.4	0.19	
75-27-4	Bromodichloromethane	ND	7.0	1.0	ND	1.0	0.15	
79-01-6	Trichloroethene	ND	6.9	0.95	ND	1.3	0.18	
123-91-1	1,4-Dioxane	4,800	34	4.2	1,300	9.5	1.2	D
80-62-6	Methyl Methacrylate	ND	15	2.5	ND	3.5	0.61	
142-82-5	n-Heptane	ND	7.0	1.1	ND	1.7	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	6.6	1.1	ND	1.5	0.24	
108-10-1	4-Methyl-2-pentanone	ND	15	0.96	ND	3.5	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	1.5	ND	1.5	0.32	
79-00-5	1,1,2-Trichloroethane	ND	6.9	0.71	ND	1.3	0.13	
108-88-3	Toluene	6.5	6.9	0.86	1.7	1.8	0.23	J
591-78-6	2-Hexanone	1.7	15	0.87	0.40	3.5	0.21	J
124-48-1	Dibromochloromethane	ND	7.0	0.92	ND	0.82	0.11	
106-93-4	1,2-Dibromoethane	ND	6.9	0.82	ND	0.89	0.11	
123-86-4	n-Butyl Acetate	ND	15	0.96	ND	3.1	0.20	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

ALS Sample ID: P2200253-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00711

Date Collected: 12/29/21

Date Received: 1/20/22

Date Analyzed: 1/26/22

Volume(s) Analyzed: 0.125 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 6.96

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	2.7	7.0	1.6	0.59	1.5	0.34	J
127-18-4	Tetrachloroethene	2.3	6.9	0.91	0.34	1.0	0.13	J
108-90-7	Chlorobenzene	ND	6.9	0.94	ND	1.5	0.20	
100-41-4	Ethylbenzene	3.0	6.9	0.99	0.68	1.6	0.23	J
179601-23-1	m,p-Xylenes	15	15	1.8	3.3	3.3	0.43	
75-25-2	Bromoform	ND	6.9	1.5	ND	0.66	0.14	
100-42-5	Styrene	ND	6.6	1.1	ND	1.6	0.27	
95-47-6	o-Xylene	8.3	6.9	1.0	1.9	1.6	0.23	
111-84-2	n-Nonane	ND	6.9	1.2	ND	1.3	0.22	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	0.98	ND	1.0	0.14	
98-82-8	Cumene	ND	6.9	1.0	ND	1.4	0.21	
80-56-8	alpha-Pinene	1.2	7.1	1.1	0.21	1.3	0.19	J
103-65-1	n-Propylbenzene	1.1	7.0	1.0	0.21	1.4	0.21	J
622-96-8	4-Ethyltoluene	1.3	7.0	1.1	0.27	1.4	0.23	J
108-67-8	1,3,5-Trimethylbenzene	2.7	6.9	1.0	0.55	1.4	0.21	J
95-63-6	1,2,4-Trimethylbenzene	12	6.9	0.98	2.5	1.4	0.20	
100-44-7	Benzyl Chloride	ND	15	1.6	ND	2.8	0.31	
541-73-1	1,3-Dichlorobenzene	ND	6.9	1.1	ND	1.1	0.18	
106-46-7	1,4-Dichlorobenzene	ND	6.9	1.1	ND	1.1	0.18	
95-50-1	1,2-Dichlorobenzene	ND	7.0	1.0	ND	1.2	0.17	
5989-27-5	d-Limonene	3.8	6.6	1.5	0.68	1.2	0.26	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.3	ND	1.4	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	15	1.7	ND	2.0	0.23	
91-20-3	Naphthalene	6.9	6.9	1.7	1.3	1.3	0.33	
87-68-3	Hexachlorobutadiene	ND	6.9	1.5	ND	0.64	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 12/29/21
 Date(s) Received: 1/20/22
 Date(s) Analyzed: 1/25 - 1/26/22

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P220125-MB	105	96	86	70-130	
Method Blank	P220126-MB	105	96	91	70-130	
Lab Control Sample	P220125-LCS	103	95	91	70-130	
Lab Control Sample	P220126-LCS	102	95	95	70-130	
Duplicate Lab Control Sample	P220125-DLCS	101	97	92	70-130	
Duplicate Lab Control Sample	P220126-DLCS	101	95	94	70-130	
SVE-OBS-01	P2200253-001	108	91	88	70-130	
SVE-OBS-02	P2200253-002	106	91	89	70-130	
SVE-OBS-03	P2200253-003	105	92	94	70-130	
SVE-OBS-04	P2200253-004	104	93	95	70-130	
SVE-OBS-05	P2200253-005	104	96	96	70-130	
SVE-OBS-07	P2200253-006	105	95	94	70-130	
SVE-OBS-08	P2200253-007	102	94	95	70-130	
SVE-OBS-09	P2200253-008	103	95	95	70-130	
SVE-EXT-02	P2200253-009	104	95	93	70-130	
SVE-EXT-03	P2200253-010	104	95	93	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	183	189	89	92	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	202	212	97	102	71-112	5	25	
74-87-3	Chloromethane	206	218	223	106	108	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	231	230	111	111	62-121	0	25	
75-01-4	Vinyl Chloride	208	196	203	94	98	63-123	4	25	
106-99-0	1,3-Butadiene	206	198	208	96	101	63-135	5	25	
74-83-9	Bromomethane	206	197	211	96	102	71-112	6	25	
75-00-3	Chloroethane	206	200	211	97	102	66-117	5	25	
64-17-5	Ethanol	832	806	823	97	99	57-117	2	25	
75-05-8	Acetonitrile	202	164	170	81	84	59-131	4	25	
107-02-8	Acrolein	416	437	460	105	111	71-123	6	25	
67-64-1	Acetone	1,020	1020	1040	100	102	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	204	210	101	104	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	415	425	104	106	61-124	2	25	
107-13-1	Acrylonitrile	402	395	401	98	100	65-130	2	25	
75-35-4	1,1-Dichloroethene	210	214	223	102	106	74-114	4	25	
75-09-2	Methylene Chloride	208	203	212	98	102	75-112	4	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	196	201	96	99	57-127	3	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	209	220	97	102	73-114	5	25	
75-15-0	Carbon Disulfide	414	444	447	107	108	70-113	0.9	25	
156-60-5	trans-1,2-Dichloroethene	208	211	219	101	105	76-119	4	25	
75-34-3	1,1-Dichloroethane	214	214	220	100	103	70-114	3	25	
1634-04-4	Methyl tert-Butyl Ether	206	216	226	105	110	72-118	5	25	
108-05-4	Vinyl Acetate	942	1210	1200	128	127	56-137	0.8	25	
78-93-3	2-Butanone (MEK)	408	430	435	105	107	74-121	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	206	212	214	103	104	73-117	1	25	
141-78-6	Ethyl Acetate	580	623	611	107	105	59-161	2	25	
110-54-3	n-Hexane	208	232	232	112	112	55-130	0	25	
67-66-3	Chloroform	210	227	228	108	109	71-114	0.9	25	
109-99-9	Tetrahydrofuran (THF)	404	438	441	108	109	73-114	0.9	25	
107-06-2	1,2-Dichloroethane	210	215	217	102	103	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	208	214	219	103	105	73-119	2	25	
71-43-2	Benzene	208	220	221	106	106	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	156	161	77	80	67-123	4	25	
110-82-7	Cyclohexane	412	500	505	121	123	70-119	2	25	L
78-87-5	1,2-Dichloropropane	206	217	220	105	107	70-118	2	25	
75-27-4	Bromodichloromethane	208	232	237	112	114	74-119	2	25	
79-01-6	Trichloroethene	204	229	232	112	114	74-115	2	25	
123-91-1	1,4-Dioxane	206	214	218	104	106	77-124	2	25	
80-62-6	Methyl Methacrylate	410	491	501	120	122	78-126	2	25	
142-82-5	n-Heptane	206	235	235	114	114	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	208	237	241	114	116	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	467	467	113	113	73-129	0	25	
10061-02-6	trans-1,3-Dichloropropene	200	220	227	110	114	80-127	4	25	
79-00-5	1,1,2-Trichloroethane	208	222	225	107	108	78-117	0.9	25	
108-88-3	Toluene	206	214	224	104	109	70-118	5	25	
591-78-6	2-Hexanone	406	388	396	96	98	74-132	2	25	
124-48-1	Dibromochloromethane	210	213	226	101	108	69-137	7	25	
106-93-4	1,2-Dibromoethane	208	205	216	99	104	76-128	5	25	
123-86-4	n-Butyl Acetate	406	393	399	97	98	75-134	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220125-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	225	232	108	112	68-120	4	25	
127-18-4	Tetrachloroethene	212	218	229	103	108	63-130	5	25	
108-90-7	Chlorobenzene	206	232	239	113	116	70-118	3	25	
100-41-4	Ethylbenzene	206	229	236	111	115	71-123	4	25	
179601-23-1	m,p-Xylenes	416	484	497	116	119	67-127	3	25	
75-25-2	Bromoform	210	207	217	99	103	65-149	4	25	
100-42-5	Styrene	202	228	236	113	117	76-132	3	25	
95-47-6	o-Xylene	208	243	249	117	120	69-124	3	25	
111-84-2	n-Nonane	208	229	231	110	111	64-127	0.9	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	244	250	117	120	69-128	3	25	
98-82-8	Cumene	206	236	242	115	117	69-125	2	25	
80-56-8	alpha-Pinene	210	229	237	109	113	68-129	4	25	
103-65-1	n-Propylbenzene	208	239	244	115	117	70-127	2	25	
622-96-8	4-Ethyltoluene	208	244	250	117	120	69-127	3	25	
108-67-8	1,3,5-Trimethylbenzene	208	243	249	117	120	66-129	3	25	
95-63-6	1,2,4-Trimethylbenzene	206	267	271	130	132	63-142	2	25	
100-44-7	Benzyl Chloride	416	463	476	111	114	73-145	3	25	
541-73-1	1,3-Dichlorobenzene	208	267	274	128	132	67-136	3	25	
106-46-7	1,4-Dichlorobenzene	210	241	249	115	119	63-134	3	25	
95-50-1	1,2-Dichlorobenzene	210	273	277	130	132	64-139	2	25	
5989-27-5	d-Limonene	206	246	251	119	122	63-137	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	499	515	124	127	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	420	550	561	131	134	62-154	2	25	
91-20-3	Naphthalene	210	230	239	110	114	62-156	4	25	
87-68-3	Hexachlorobutadiene	212	225	234	106	110	55-142	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	175	179	85	87	56-128	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	203	206	98	99	71-112	1	25	
74-87-3	Chloromethane	206	206	209	100	101	53-126	1	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	217	216	104	104	62-121	0	25	
75-01-4	Vinyl Chloride	208	195	199	94	96	63-123	2	25	
106-99-0	1,3-Butadiene	206	196	199	95	97	63-135	2	25	
74-83-9	Bromomethane	206	195	201	95	98	71-112	3	25	
75-00-3	Chloroethane	206	197	200	96	97	66-117	1	25	
64-17-5	Ethanol	832	762	773	92	93	57-117	1	25	
75-05-8	Acetonitrile	202	158	162	78	80	59-131	3	25	
107-02-8	Acrolein	416	428	433	103	104	71-123	1	25	
67-64-1	Acetone	1,020	974	975	95	96	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	202	203	100	100	71-114	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	397	405	99	101	61-124	2	25	
107-13-1	Acrylonitrile	402	380	384	95	96	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	213	215	101	102	74-114	1	25	
75-09-2	Methylene Chloride	208	198	200	95	96	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	188	189	92	93	57-127	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	208	210	96	97	73-114	1	25	
75-15-0	Carbon Disulfide	414	427	424	103	102	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	208	204	207	98	100	76-119	2	25	
75-34-3	1,1-Dichloroethane	214	208	211	97	99	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	206	214	215	104	104	72-118	0	25	
108-05-4	Vinyl Acetate	942	1140	1150	121	122	56-137	0.8	25	
78-93-3	2-Butanone (MEK)	408	416	416	102	102	74-121	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	206	205	207	100	100	73-117	0	25	
141-78-6	Ethyl Acetate	580	591	582	102	100	59-161	2	25	
110-54-3	n-Hexane	208	220	218	106	105	55-130	0.9	25	
67-66-3	Chloroform	210	220	220	105	105	71-114	0	25	
109-99-9	Tetrahydrofuran (THF)	404	421	422	104	104	73-114	0	25	
107-06-2	1,2-Dichloroethane	210	209	210	100	100	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	208	215	216	103	104	73-119	1	25	
71-43-2	Benzene	208	216	216	104	104	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	157	158	78	78	67-123	0	25	
110-82-7	Cyclohexane	412	484	484	117	117	70-119	0	25	
78-87-5	1,2-Dichloropropane	206	213	213	103	103	70-118	0	25	
75-27-4	Bromodichloromethane	208	231	230	111	111	74-119	0	25	
79-01-6	Trichloroethene	204	227	227	111	111	74-115	0	25	
123-91-1	1,4-Dioxane	206	211	211	102	102	77-124	0	25	
80-62-6	Methyl Methacrylate	410	481	481	117	117	78-126	0	25	
142-82-5	n-Heptane	206	230	229	112	111	70-119	0.9	25	
10061-01-5	cis-1,3-Dichloropropene	208	233	233	112	112	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	412	453	450	110	109	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	200	218	220	109	110	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	208	219	219	105	105	78-117	0	25	
108-88-3	Toluene	206	210	209	102	101	70-118	1	25	
591-78-6	2-Hexanone	406	374	372	92	92	74-132	0	25	
124-48-1	Dibromochloromethane	210	214	215	102	102	69-137	0	25	
106-93-4	1,2-Dibromoethane	208	203	205	98	99	76-128	1	25	
123-86-4	n-Butyl Acetate	406	379	378	93	93	75-134	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200253
 ALS Sample ID: P220126-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/26/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	218	217	105	104	68-120	1	25	
127-18-4	Tetrachloroethene	212	215	215	101	101	63-130	0	25	
108-90-7	Chlorobenzene	206	224	224	109	109	70-118	0	25	
100-41-4	Ethylbenzene	206	223	223	108	108	71-123	0	25	
179601-23-1	m,p-Xylenes	416	468	467	113	112	67-127	0.9	25	
75-25-2	Bromoform	210	204	205	97	98	65-149	1	25	
100-42-5	Styrene	202	223	222	110	110	76-132	0	25	
95-47-6	o-Xylene	208	236	234	113	113	69-124	0	25	
111-84-2	n-Nonane	208	217	216	104	104	64-127	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	236	234	113	113	69-128	0	25	
98-82-8	Cumene	206	228	226	111	110	69-125	0.9	25	
80-56-8	alpha-Pinene	210	223	222	106	106	68-129	0	25	
103-65-1	n-Propylbenzene	208	231	228	111	110	70-127	0.9	25	
622-96-8	4-Ethyltoluene	208	236	234	113	113	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	235	233	113	112	66-129	0.9	25	
95-63-6	1,2,4-Trimethylbenzene	206	255	251	124	122	63-142	2	25	
100-44-7	Benzyl Chloride	416	444	444	107	107	73-145	0	25	
541-73-1	1,3-Dichlorobenzene	208	257	255	124	123	67-136	0.8	25	
106-46-7	1,4-Dichlorobenzene	210	233	232	111	110	63-134	0.9	25	
95-50-1	1,2-Dichlorobenzene	210	260	257	124	122	64-139	2	25	
5989-27-5	d-Limonene	206	236	235	115	114	63-137	0.9	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	484	483	120	120	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	420	528	524	126	125	62-154	0.8	25	
91-20-3	Naphthalene	210	227	228	108	109	62-156	0.9	25	
87-68-3	Hexachlorobutadiene	212	221	222	104	105	55-142	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

APPENDIX B

**SVE LABORATORY ANALYTICAL RESULTS
AND MASS REMOVAL CALCULATIONS**



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

November 13, 2021

Collin Creel
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39402

RE: SVE Performance / KUH0-21-010

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on October 25, 2021. For your reference, these analyses have been assigned our service request number P2105624.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



By Sue Anderson at 9:45 am, Nov 13, 2021

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Environmental Management Services, Inc.
Project: SVE Performance / KUH0-21-010

Service Request No: P2105624

CASE NARRATIVE

The samples were received intact under chain of custody on October 25, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The samples were received with limited hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory and the data flagged to indicate the holding time exceedance.

The upper control criterion was exceeded for 1,2,4-trichlorobenzene in the Continuing Calibration Verification (CCV) analyzed on November 3, 2021. Since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain or only yielded a trace hit of the analyte in question, the data quality has not been affected. No corrective action was required.

The upper control criteria were exceeded for 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) and Tetrahydrofuran (THF) in the Laboratory Control Sample (LCS) analyzed on November 3, 2021. However, the Duplicate Laboratory Control Sample (DLCS) and Relative Percent Difference (RPD) were within acceptance limits. Therefore, the sample data has not been significantly affected. The data has been flagged accordingly. No corrective action was required.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS's Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
 Project ID: SVE Performance / KUH0-21-010

Service Request: P2105624

Date Received: 10/25/2021
 Time Received: 10:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pfl (psig)	TO-15 - VOC Cans
Post Carbon	P2105624-001	Air	9/30/2021	15:25	1SS00814	-3.15	6.24	X
Post Carbon 1	P2105624-002	Air	9/30/2021	15:26	1SS00255	-2.53	6.63	X
Post Carbon 2	P2105624-003	Air	9/30/2021	15:27	1SS00180	-1.41	6.54	X
SVE-EXT-01@ manifold	P2105624-004	Air	9/30/2021	15:34	1SS01393	-3.88	6.61	X
SVE-EXT-02@ manifold	P2105624-005	Air	9/30/2021	15:32	1SS00543	-6.41	6.85	X
SVE-EXT-03@ manifold	P2105624-006	Air	9/30/2021	15:30	1SS00517	-4.73	6.64	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		ALS Project No. 105224
Company Name & Address (Reporting Information) EMS, Inc PO Box 18369 Hattiesburg, MS 39404 Project Manager Collin Creel Phone 985 5160142 Fax 601 544 0504 Email Address for Result Reporting ccreel@env-mgt.com		ALS Contact:
Project Name SVE Performance Monitoring Project Number KUHO-21-010 P.O. # / Billing Information KUHO-21-010 / Same as reporting Sampler (Print & Sign) Collin Creel		Analysis Method TO15
Client Sample ID Pre-Carbon Post-Carbon 1 Post-Carbon 2 SVE-EXT-01C-manifold SVE-EXT-02C-manifold SVE-EXT-03C-manifold	Laboratory ID Number 1 2 3 4 5 6	Canister ID (Bar code # - AC, SC, etc.) 15500814 15500255 15500180 15501393 15500543 15500517
Date Collected 9/30/21 9/30/21 9/30/21 9/30/21 9/30/21 9/30/21	Time Collected 15:25 15:26 15:27 15:34 15:32 15:30	Flow Controller ID (Bar code # - FC #) -29 -30 -30 -30 -30 -30
Canister Start Pressure "Hg -29 -30 -30 -30 -30 -30	Canister End Pressure "Hg/psig 0 0 0 -6 -6 -5	Sample Volume 12 12 12 12 12 12
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) <input checked="" type="checkbox"/> _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Relinquished by (Signature) 	Date 10/19/21 Time 12:00	Received by (Signature)
Relinquished by (Signature) 	Date 10-21-21 Time 10:00	Project Requirements (MRLs, QAPP) _____ Project Requirements _____ Temperature _____ °C

**ALS Environmental
Sample Acceptance Check Form**

Client: Environmental Management Services, Inc.

Work order: P2105624

Project: SVE Performance / KUH0-21-010

Sample(s) received on: 10/25/21

Date opened: 10/25/21

by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2105624-001.01	1.0 L Source Silonite Canister					
P2105624-002.01	1.0 L Source Silonite Canister					
P2105624-003.01	1.0 L Source Silonite Canister					
P2105624-004.01	1.0 L Source Silonite Canister					
P2105624-005.01	1.0 L Source Silonite Canister					
P2105624-006.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00814

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 6.24

Canister Dilution Factor: 1.81

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	110	2.4	0.59	65	1.4	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	2.4	0.39	0.80	0.49	0.080	
74-87-3	Chloromethane	0.93	2.3	0.39	0.45	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.81	2.4	0.38	0.12	0.35	0.054	J
75-01-4	Vinyl Chloride	ND	2.4	0.26	ND	0.92	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.40	ND	1.1	0.18	
74-83-9	Bromomethane	0.51	2.3	0.33	0.13	0.59	0.086	J
75-00-3	Chloroethane	ND	2.3	0.30	ND	0.87	0.11	
64-17-5	Ethanol	44	23	1.7	23	12	0.89	
75-05-8	Acetonitrile	3.2	4.5	0.59	1.9	2.7	0.35	J
107-02-8	Acrolein	2.0	4.5	0.68	0.89	2.0	0.30	J
67-64-1	Acetone	45	24	5.4	19	9.9	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.5	2.4	0.37	0.26	0.42	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	4.5	1.0	1.0	1.8	0.41	J
107-13-1	Acrylonitrile	0.58	4.5	0.50	0.27	2.1	0.23	J
75-35-4	1,1-Dichloroethene	79	2.4	0.33	20	0.62	0.084	
75-09-2	Methylene Chloride	0.95	2.4	0.68	0.27	0.68	0.20	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.4	0.33	ND	0.77	0.10	
76-13-1	Trichlorotrifluoroethane (CFC 113)	1.5	2.4	0.34	0.19	0.32	0.045	J
75-15-0	Carbon Disulfide	ND	5.0	0.72	ND	1.6	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.33	ND	0.61	0.084	
75-34-3	1,1-Dichloroethane	2.2	2.4	0.35	0.54	0.59	0.087	J
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	0.29	ND	0.67	0.079	
108-05-4	Vinyl Acetate	8.1	23	5.4	2.3	6.4	1.5	J
78-93-3	2-Butanone (MEK)	5.5	4.5	0.50	1.9	1.5	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Post Carbon
Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624
 ALS Sample ID: P2105624-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H1**
 Container ID: 1SS00814

Date Collected: 9/30/21
 Date Received: 10/25/21
 Date Analyzed: 11/4 - 11/5/21
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 6.24

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.34	ND	0.59	0.086	
141-78-6	Ethyl Acetate	ND	9.5	1.3	ND	2.6	0.35	
110-54-3	n-Hexane	ND	2.4	0.50	ND	0.68	0.14	
67-66-3	Chloroform	2.2	2.4	0.32	0.45	0.50	0.066	J
109-99-9	Tetrahydrofuran (THF)	2.6	4.5	0.30	0.89	1.5	0.10	J
107-06-2	1,2-Dichloroethane	0.35	2.4	0.27	0.086	0.59	0.066	J
71-55-6	1,1,1-Trichloroethane	28	2.4	0.30	5.2	0.43	0.055	
71-43-2	Benzene	0.45	2.3	0.35	0.14	0.71	0.11	J
56-23-5	Carbon Tetrachloride	0.42	2.3	0.33	0.066	0.36	0.053	J
110-82-7	Cyclohexane	ND	5.0	0.68	ND	1.4	0.20	
78-87-5	1,2-Dichloropropane	ND	2.3	0.30	ND	0.49	0.065	
75-27-4	Bromodichloromethane	ND	2.4	0.35	ND	0.36	0.052	
79-01-6	Trichloroethene	0.95	2.4	0.33	0.18	0.44	0.061	J
123-91-1	1,4-Dioxane	1,400	24	2.9	380	6.5	0.79	D
80-62-6	Methyl Methacrylate	ND	5.0	0.86	ND	1.2	0.21	
142-82-5	n-Heptane	ND	2.4	0.38	ND	0.59	0.094	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.38	ND	0.50	0.083	
108-10-1	4-Methyl-2-pentanone	4.6	5.0	0.33	1.1	1.2	0.081	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.50	ND	0.51	0.11	
79-00-5	1,1,2-Trichloroethane	0.81	2.4	0.24	0.15	0.43	0.045	J
108-88-3	Toluene	3.9	2.4	0.29	1.0	0.62	0.078	
591-78-6	2-Hexanone	ND	5.0	0.30	ND	1.2	0.073	
124-48-1	Dibromochloromethane	ND	2.4	0.32	ND	0.28	0.037	
106-93-4	1,2-Dibromoethane	ND	2.4	0.28	ND	0.31	0.037	
123-86-4	n-Butyl Acetate	0.74	5.0	0.33	0.16	1.0	0.070	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00814

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 6.24

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.4	0.54	ND	0.51	0.12	
127-18-4	Tetrachloroethene	5.9	2.4	0.31	0.88	0.35	0.046	
108-90-7	Chlorobenzene	ND	2.4	0.32	ND	0.51	0.070	
100-41-4	Ethylbenzene	15	2.4	0.34	3.5	0.54	0.078	
179601-23-1	m,p-Xylenes	55	5.0	0.63	13	1.1	0.15	
75-25-2	Bromoform	ND	2.4	0.50	ND	0.23	0.048	
100-42-5	Styrene	0.61	2.3	0.39	0.14	0.53	0.091	J
95-47-6	o-Xylene	53	2.4	0.35	12	0.54	0.080	
111-84-2	n-Nonane	ND	2.4	0.40	ND	0.45	0.077	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.33	ND	0.34	0.049	
98-82-8	Cumene	0.91	2.4	0.35	0.19	0.48	0.071	J
80-56-8	alpha-Pinene	1.1	2.4	0.37	0.20	0.44	0.067	J
103-65-1	n-Propylbenzene	2.1	2.4	0.35	0.42	0.49	0.071	J
622-96-8	4-Ethyltoluene	2.6	2.4	0.38	0.53	0.49	0.078	
108-67-8	1,3,5-Trimethylbenzene	3.9	2.4	0.35	0.80	0.48	0.071	
95-63-6	1,2,4-Trimethylbenzene	13	2.4	0.33	2.6	0.48	0.068	
100-44-7	Benzyl Chloride	ND	5.0	0.54	ND	0.96	0.10	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.36	ND	0.39	0.060	
106-46-7	1,4-Dichlorobenzene	0.55	2.4	0.37	0.091	0.39	0.062	J
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.36	ND	0.40	0.059	
5989-27-5	d-Limonene	5.2	2.3	0.50	0.93	0.41	0.089	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	0.45	ND	0.47	0.047	
120-82-1	1,2,4-Trichlorobenzene	0.84	5.0	0.59	0.11	0.67	0.079	J
91-20-3	Naphthalene	4.5	2.4	0.59	0.86	0.45	0.11	
87-68-3	Hexachlorobutadiene	0.57	2.4	0.50	0.053	0.22	0.047	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 1

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00255

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.53 Final Pressure (psig): 6.63

Canister Dilution Factor: 1.75

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	210	2.3	0.57	120	1.3	0.33	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.6	2.3	0.38	0.93	0.47	0.077	
74-87-3	Chloromethane	1.5	2.2	0.38	0.72	1.1	0.18	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.94	2.4	0.37	0.13	0.34	0.053	J
75-01-4	Vinyl Chloride	ND	2.3	0.25	ND	0.89	0.098	
106-99-0	1,3-Butadiene	ND	2.3	0.39	ND	1.0	0.17	
74-83-9	Bromomethane	6.6	2.2	0.32	1.7	0.57	0.083	
75-00-3	Chloroethane	0.67	2.2	0.29	0.26	0.85	0.11	J
64-17-5	Ethanol	41	22	1.6	22	12	0.86	
75-05-8	Acetonitrile	2.9	4.4	0.57	1.7	2.6	0.34	J
107-02-8	Acrolein	4.1	4.4	0.66	1.8	1.9	0.29	J
67-64-1	Acetone	380	23	5.3	160	9.6	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	1.5	2.3	0.35	0.27	0.40	0.063	J
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	4.4	0.96	3.5	1.8	0.39	
107-13-1	Acrylonitrile	ND	4.4	0.48	ND	2.0	0.22	
75-35-4	1,1-Dichloroethene	84	2.4	0.32	21	0.60	0.082	
75-09-2	Methylene Chloride	1.0	2.3	0.66	0.29	0.66	0.19	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.3	0.32	ND	0.74	0.10	
76-13-1	Trichlorotrifluoroethane (CFC 113)	3.1	2.4	0.33	0.41	0.31	0.043	
75-15-0	Carbon Disulfide	6.0	4.8	0.70	1.9	1.5	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.32	ND	0.59	0.082	
75-34-3	1,1-Dichloroethane	3.1	2.3	0.34	0.76	0.57	0.084	
1634-04-4	Methyl tert-Butyl Ether	ND	2.3	0.28	ND	0.64	0.076	
108-05-4	Vinyl Acetate	88	22	5.3	25	6.2	1.5	
78-93-3	2-Butanone (MEK)	82	4.4	0.48	28	1.5	0.16	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 1

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00255

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.53 Final Pressure (psig): 6.63

Canister Dilution Factor: 1.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.33	ND	0.57	0.083	
141-78-6	Ethyl Acetate	ND	9.2	1.2	ND	2.6	0.34	
110-54-3	n-Hexane	ND	2.3	0.48	ND	0.66	0.14	
67-66-3	Chloroform	0.46	2.4	0.31	0.095	0.48	0.064	J
109-99-9	Tetrahydrofuran (THF)	3.0	4.4	0.29	1.0	1.5	0.099	J
107-06-2	1,2-Dichloroethane	ND	2.3	0.26	ND	0.57	0.064	
71-55-6	1,1,1-Trichloroethane	3.4	2.3	0.29	0.63	0.42	0.053	
71-43-2	Benzene	0.71	2.2	0.34	0.22	0.69	0.11	J
56-23-5	Carbon Tetrachloride	ND	2.2	0.32	ND	0.35	0.051	
110-82-7	Cyclohexane	ND	4.8	0.66	ND	1.4	0.19	
78-87-5	1,2-Dichloropropane	ND	2.2	0.29	ND	0.47	0.063	
75-27-4	Bromodichloromethane	ND	2.3	0.34	ND	0.35	0.050	
79-01-6	Trichloroethene	ND	2.3	0.32	ND	0.42	0.059	
123-91-1	1,4-Dioxane	930	23	2.8	260	6.3	0.77	D
80-62-6	Methyl Methacrylate	ND	4.8	0.83	ND	1.2	0.20	
142-82-5	n-Heptane	ND	2.3	0.37	ND	0.57	0.091	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.36	ND	0.48	0.080	
108-10-1	4-Methyl-2-pentanone	4.4	4.8	0.32	1.1	1.2	0.078	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.48	ND	0.49	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.24	ND	0.42	0.043	
108-88-3	Toluene	0.49	2.3	0.28	0.13	0.60	0.075	J
591-78-6	2-Hexanone	4.1	4.8	0.29	1.0	1.2	0.071	J
124-48-1	Dibromochloromethane	ND	2.3	0.31	ND	0.27	0.036	
106-93-4	1,2-Dibromoethane	ND	2.3	0.27	ND	0.30	0.035	
123-86-4	n-Butyl Acetate	ND	4.8	0.32	ND	1.0	0.067	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 1

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00255

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.53 Final Pressure (psig): 6.63

Canister Dilution Factor: 1.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.3	0.53	ND	0.50	0.11	
127-18-4	Tetrachloroethene	ND	2.3	0.30	ND	0.34	0.045	
108-90-7	Chlorobenzene	ND	2.3	0.31	ND	0.49	0.067	
100-41-4	Ethylbenzene	ND	2.3	0.33	ND	0.52	0.076	
179601-23-1	m,p-Xylenes	0.91	4.8	0.61	0.21	1.1	0.14	J
75-25-2	Bromoform	ND	2.3	0.48	ND	0.22	0.047	
100-42-5	Styrene	0.48	2.2	0.38	0.11	0.51	0.088	J
95-47-6	o-Xylene	0.67	2.3	0.34	0.16	0.52	0.078	J
111-84-2	n-Nonane	ND	2.3	0.39	ND	0.43	0.074	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.32	ND	0.33	0.047	
98-82-8	Cumene	ND	2.3	0.34	ND	0.46	0.069	
80-56-8	alpha-Pinene	0.45	2.4	0.36	0.081	0.42	0.064	J
103-65-1	n-Propylbenzene	ND	2.3	0.34	ND	0.47	0.069	
622-96-8	4-Ethyltoluene	ND	2.3	0.37	ND	0.47	0.076	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	0.34	ND	0.46	0.069	
95-63-6	1,2,4-Trimethylbenzene	0.46	2.3	0.32	0.093	0.46	0.066	J
100-44-7	Benzyl Chloride	ND	4.8	0.53	ND	0.93	0.10	
541-73-1	1,3-Dichlorobenzene	ND	2.3	0.35	ND	0.38	0.058	
106-46-7	1,4-Dichlorobenzene	ND	2.3	0.36	ND	0.38	0.060	
95-50-1	1,2-Dichlorobenzene	ND	2.3	0.35	ND	0.39	0.058	
5989-27-5	d-Limonene	4.2	2.2	0.48	0.75	0.39	0.086	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	0.44	ND	0.45	0.045	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.57	ND	0.65	0.077	
91-20-3	Naphthalene	0.70	2.3	0.57	0.13	0.43	0.11	J
87-68-3	Hexachlorobutadiene	ND	2.3	0.48	ND	0.21	0.045	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 2

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00180

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 6.54

Canister Dilution Factor: 1.60

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	800	21	5.2	460	12	3.0	D
75-71-8	Dichlorodifluoromethane (CFC 12)	4.4	2.1	0.35	0.88	0.43	0.070	
74-87-3	Chloromethane	0.64	2.0	0.34	0.31	0.99	0.17	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	1.0	2.2	0.34	0.15	0.31	0.048	J
75-01-4	Vinyl Chloride	ND	2.1	0.23	ND	0.81	0.089	
106-99-0	1,3-Butadiene	ND	2.1	0.35	ND	0.94	0.16	
74-83-9	Bromomethane	ND	2.0	0.30	ND	0.53	0.076	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.77	0.10	
64-17-5	Ethanol	160	20	1.5	87	11	0.79	
75-05-8	Acetonitrile	1.2	4.0	0.52	0.73	2.4	0.31	J
107-02-8	Acrolein	1.8	4.0	0.60	0.78	1.7	0.26	J
67-64-1	Acetone	120	21	4.8	51	8.8	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.9	2.1	0.32	0.34	0.37	0.058	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	4.0	0.88	1.3	1.6	0.36	J
107-13-1	Acrylonitrile	ND	4.0	0.44	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	63	2.2	0.30	16	0.55	0.075	
75-09-2	Methylene Chloride	1.4	2.1	0.60	0.39	0.60	0.17	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.29	ND	0.68	0.092	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.2	0.30	ND	0.28	0.040	
75-15-0	Carbon Disulfide	55	4.4	0.64	18	1.4	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.30	ND	0.53	0.075	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.52	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.59	0.070	
108-05-4	Vinyl Acetate	4.9	20	4.8	1.4	5.7	1.4	J
78-93-3	2-Butanone (MEK)	3.4	4.0	0.44	1.2	1.4	0.15	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 2

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00180

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 6.54

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.30	ND	0.52	0.076	
141-78-6	Ethyl Acetate	2.2	8.4	1.1	0.62	2.3	0.31	J
110-54-3	n-Hexane	ND	2.1	0.44	ND	0.60	0.12	
67-66-3	Chloroform	ND	2.2	0.28	ND	0.44	0.058	
109-99-9	Tetrahydrofuran (THF)	2.9	4.0	0.27	1.0	1.4	0.091	J
107-06-2	1,2-Dichloroethane	ND	2.1	0.24	ND	0.52	0.058	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.26	ND	0.38	0.048	
71-43-2	Benzene	0.73	2.0	0.31	0.23	0.63	0.096	J
56-23-5	Carbon Tetrachloride	ND	2.0	0.30	ND	0.32	0.047	
110-82-7	Cyclohexane	ND	4.4	0.60	ND	1.3	0.17	
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.43	0.057	
75-27-4	Bromodichloromethane	ND	2.1	0.31	ND	0.32	0.046	
79-01-6	Trichloroethene	ND	2.1	0.29	ND	0.39	0.054	
123-91-1	1,4-Dioxane	11	2.1	0.25	3.1	0.58	0.070	
80-62-6	Methyl Methacrylate	ND	4.4	0.76	ND	1.1	0.19	
142-82-5	n-Heptane	ND	2.1	0.34	ND	0.52	0.083	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.44	0.073	
108-10-1	4-Methyl-2-pentanone	ND	4.4	0.29	ND	1.1	0.071	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.44	ND	0.45	0.097	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.22	ND	0.38	0.040	
108-88-3	Toluene	0.99	2.1	0.26	0.26	0.55	0.069	J
591-78-6	2-Hexanone	0.52	4.4	0.26	0.13	1.1	0.064	J
124-48-1	Dibromochloromethane	ND	2.1	0.28	ND	0.25	0.033	
106-93-4	1,2-Dibromoethane	ND	2.1	0.25	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	0.36	4.4	0.29	0.077	0.93	0.061	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: Post Carbon 2

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00180

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 6.54

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.1	0.48	ND	0.45	0.10	
127-18-4	Tetrachloroethene	ND	2.1	0.28	ND	0.31	0.041	
108-90-7	Chlorobenzene	ND	2.1	0.28	ND	0.45	0.062	
100-41-4	Ethylbenzene	0.36	2.1	0.30	0.083	0.48	0.069	J
179601-23-1	m,p-Xylenes	1.5	4.4	0.56	0.34	1.0	0.13	J
75-25-2	Bromoform	ND	2.1	0.44	ND	0.20	0.043	
100-42-5	Styrene	ND	2.0	0.34	ND	0.47	0.081	
95-47-6	o-Xylene	0.90	2.1	0.31	0.21	0.48	0.071	J
111-84-2	n-Nonane	ND	2.1	0.36	ND	0.40	0.068	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.30	ND	0.30	0.043	
98-82-8	Cumene	ND	2.1	0.31	ND	0.42	0.063	
80-56-8	alpha-Pinene	0.50	2.2	0.33	0.089	0.39	0.059	J
103-65-1	n-Propylbenzene	ND	2.1	0.31	ND	0.43	0.063	
622-96-8	4-Ethyltoluene	ND	2.1	0.34	ND	0.43	0.069	
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.31	ND	0.42	0.063	
95-63-6	1,2,4-Trimethylbenzene	0.84	2.1	0.30	0.17	0.42	0.060	J
100-44-7	Benzyl Chloride	ND	4.4	0.48	ND	0.85	0.093	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.053	
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.33	ND	0.35	0.055	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.32	ND	0.35	0.053	
5989-27-5	d-Limonene	4.6	2.0	0.44	0.83	0.36	0.079	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.40	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.52	ND	0.59	0.070	
91-20-3	Naphthalene	1.0	2.1	0.52	0.20	0.40	0.099	J
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ND	0.20	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS01393

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 6.61

Canister Dilution Factor: 1.97

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	90	2.6	0.64	52	1.5	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.4	2.6	0.43	0.89	0.53	0.087	
74-87-3	Chloromethane	0.48	2.5	0.42	0.23	1.2	0.21	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	1.2	2.7	0.41	0.17	0.38	0.059	J
75-01-4	Vinyl Chloride	ND	2.6	0.28	ND	1.0	0.11	
106-99-0	1,3-Butadiene	ND	2.6	0.43	ND	1.2	0.20	
74-83-9	Bromomethane	ND	2.5	0.36	ND	0.65	0.094	
75-00-3	Chloroethane	ND	2.5	0.33	ND	0.95	0.12	
64-17-5	Ethanol	69	25	1.8	37	13	0.97	
75-05-8	Acetonitrile	ND	4.9	0.64	ND	2.9	0.38	
107-02-8	Acrolein	4.5	4.9	0.74	2.0	2.1	0.32	J
67-64-1	Acetone	65	26	5.9	27	11	2.5	
75-69-4	Trichlorofluoromethane (CFC 11)	1.4	2.6	0.40	0.26	0.46	0.071	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.4	4.9	1.1	1.8	2.0	0.44	J
107-13-1	Acrylonitrile	ND	4.9	0.54	ND	2.3	0.25	
75-35-4	1,1-Dichloroethene	41	2.7	0.36	10	0.67	0.092	
75-09-2	Methylene Chloride	0.95	2.6	0.74	0.27	0.74	0.21	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.6	0.35	ND	0.83	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	2.1	2.7	0.37	0.27	0.35	0.049	J
75-15-0	Carbon Disulfide	9.0	5.4	0.79	2.9	1.7	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.36	ND	0.66	0.092	
75-34-3	1,1-Dichloroethane	1.3	2.6	0.38	0.32	0.65	0.095	J
1634-04-4	Methyl tert-Butyl Ether	ND	2.6	0.31	ND	0.72	0.086	
108-05-4	Vinyl Acetate	10	25	5.9	2.9	7.0	1.7	J
78-93-3	2-Butanone (MEK)	15	4.9	0.54	5.1	1.7	0.18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS01393

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 6.61

Canister Dilution Factor: 1.97

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.37	ND	0.65	0.093	
141-78-6	Ethyl Acetate	ND	10	1.4	ND	2.9	0.38	
110-54-3	n-Hexane	ND	2.6	0.54	ND	0.74	0.15	
67-66-3	Chloroform	2.7	2.7	0.35	0.55	0.54	0.072	
109-99-9	Tetrahydrofuran (THF)	3.9	4.9	0.33	1.3	1.7	0.11	J
107-06-2	1,2-Dichloroethane	ND	2.6	0.29	ND	0.65	0.072	
71-55-6	1,1,1-Trichloroethane	36	2.6	0.33	6.5	0.47	0.060	
71-43-2	Benzene	0.43	2.5	0.38	0.13	0.77	0.12	J
56-23-5	Carbon Tetrachloride	ND	2.5	0.36	ND	0.39	0.058	
110-82-7	Cyclohexane	ND	5.4	0.74	ND	1.6	0.21	
78-87-5	1,2-Dichloropropane	ND	2.5	0.33	ND	0.53	0.070	
75-27-4	Bromodichloromethane	ND	2.6	0.38	ND	0.39	0.057	
79-01-6	Trichloroethene	0.58	2.6	0.35	0.11	0.48	0.066	J
123-91-1	1,4-Dioxane	520	26	3.1	150	7.1	0.86	D
80-62-6	Methyl Methacrylate	ND	5.4	0.94	ND	1.3	0.23	
142-82-5	n-Heptane	ND	2.6	0.42	ND	0.64	0.10	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.41	ND	0.54	0.090	
108-10-1	4-Methyl-2-pentanone	4.8	5.4	0.36	1.2	1.3	0.088	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ND	0.55	0.12	
79-00-5	1,1,2-Trichloroethane	0.48	2.6	0.27	0.088	0.47	0.049	J
108-88-3	Toluene	4.7	2.6	0.32	1.2	0.68	0.085	
591-78-6	2-Hexanone	2.3	5.4	0.33	0.57	1.3	0.079	J
124-48-1	Dibromochloromethane	ND	2.6	0.34	ND	0.31	0.040	
106-93-4	1,2-Dibromoethane	ND	2.6	0.31	ND	0.33	0.040	
123-86-4	n-Butyl Acetate	ND	5.4	0.36	ND	1.1	0.076	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS01393

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 6.61

Canister Dilution Factor: 1.97

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.6	0.59	ND	0.56	0.13	
127-18-4	Tetrachloroethene	4.2	2.6	0.34	0.62	0.38	0.050	
108-90-7	Chlorobenzene	ND	2.6	0.35	ND	0.56	0.076	
100-41-4	Ethylbenzene	17	2.6	0.37	4.0	0.59	0.085	
179601-23-1	m,p-Xylenes	57	5.4	0.69	13	1.2	0.16	
75-25-2	Bromoform	ND	2.6	0.54	ND	0.25	0.052	
100-42-5	Styrene	0.53	2.5	0.42	0.12	0.58	0.10	J
95-47-6	o-Xylene	63	2.6	0.38	14	0.59	0.087	
111-84-2	n-Nonane	0.56	2.6	0.44	0.11	0.49	0.084	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.36	ND	0.37	0.053	
98-82-8	Cumene	0.66	2.6	0.38	0.14	0.52	0.077	J
80-56-8	alpha-Pinene	1.2	2.7	0.40	0.22	0.48	0.073	J
103-65-1	n-Propylbenzene	1.7	2.6	0.38	0.34	0.53	0.077	J
622-96-8	4-Ethyltoluene	2.2	2.6	0.42	0.45	0.53	0.085	J
108-67-8	1,3,5-Trimethylbenzene	2.9	2.6	0.38	0.60	0.52	0.077	
95-63-6	1,2,4-Trimethylbenzene	8.6	2.6	0.36	1.7	0.52	0.074	
100-44-7	Benzyl Chloride	ND	5.4	0.59	ND	1.0	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.39	ND	0.43	0.066	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.40	ND	0.43	0.067	
95-50-1	1,2-Dichlorobenzene	ND	2.6	0.39	ND	0.43	0.065	
5989-27-5	d-Limonene	3.8	2.5	0.54	0.69	0.44	0.097	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	0.49	ND	0.51	0.051	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.64	ND	0.73	0.086	
91-20-3	Naphthalene	3.6	2.6	0.64	0.68	0.49	0.12	
87-68-3	Hexachlorobutadiene	ND	2.6	0.54	ND	0.24	0.051	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00543

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -6.41 Final Pressure (psig): 6.85

Canister Dilution Factor: 2.60

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	29	3.4	0.85	17	2.0	0.49	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.7	3.4	0.57	0.94	0.70	0.11	
74-87-3	Chloromethane	ND	3.3	0.56	ND	1.6	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	1.1	3.5	0.55	0.16	0.50	0.078	J
75-01-4	Vinyl Chloride	ND	3.4	0.37	ND	1.3	0.14	
106-99-0	1,3-Butadiene	ND	3.4	0.57	ND	1.5	0.26	
74-83-9	Bromomethane	ND	3.3	0.48	ND	0.85	0.12	
75-00-3	Chloroethane	ND	3.3	0.43	ND	1.3	0.16	
64-17-5	Ethanol	31	33	2.4	17	17	1.3	J
75-05-8	Acetonitrile	ND	6.5	0.85	ND	3.9	0.50	
107-02-8	Acrolein	ND	6.5	0.98	ND	2.8	0.43	
67-64-1	Acetone	18	34	7.8	7.8	14	3.3	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.8	3.4	0.53	0.32	0.60	0.094	J
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	6.5	1.4	ND	2.6	0.58	
107-13-1	Acrylonitrile	ND	6.5	0.72	ND	3.0	0.33	
75-35-4	1,1-Dichloroethene	230	3.5	0.48	57	0.89	0.12	
75-09-2	Methylene Chloride	ND	3.4	0.98	ND	0.97	0.28	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.4	0.47	ND	1.1	0.15	
76-13-1	Trichlorotrifluoroethane (CFC 113)	2.0	3.5	0.49	0.27	0.46	0.064	J
75-15-0	Carbon Disulfide	ND	7.2	1.0	ND	2.3	0.33	
156-60-5	trans-1,2-Dichloroethene	ND	3.4	0.48	ND	0.87	0.12	
75-34-3	1,1-Dichloroethane	6.1	3.4	0.51	1.5	0.85	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	3.4	0.41	ND	0.96	0.11	
108-05-4	Vinyl Acetate	ND	33	7.8	ND	9.2	2.2	
78-93-3	2-Butanone (MEK)	3.7	6.5	0.72	1.2	2.2	0.24	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00543

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -6.41 Final Pressure (psig): 6.85

Canister Dilution Factor: 2.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	3.4	0.49	ND	0.85	0.12	
141-78-6	Ethyl Acetate	ND	14	1.8	ND	3.8	0.51	
110-54-3	n-Hexane	ND	3.4	0.72	ND	0.98	0.20	
67-66-3	Chloroform	3.5	3.5	0.46	0.72	0.72	0.095	
109-99-9	Tetrahydrofuran (THF)	4.0	6.5	0.44	1.3	2.2	0.15	J
107-06-2	1,2-Dichloroethane	0.98	3.4	0.38	0.24	0.85	0.095	J
71-55-6	1,1,1-Trichloroethane	53	3.4	0.43	9.7	0.62	0.079	
71-43-2	Benzene	0.73	3.3	0.50	0.23	1.0	0.16	J
56-23-5	Carbon Tetrachloride	ND	3.3	0.48	ND	0.52	0.076	
110-82-7	Cyclohexane	ND	7.2	0.98	ND	2.1	0.28	
78-87-5	1,2-Dichloropropane	ND	3.3	0.43	ND	0.70	0.093	
75-27-4	Bromodichloromethane	ND	3.4	0.50	ND	0.51	0.075	
79-01-6	Trichloroethene	1.5	3.4	0.47	0.27	0.63	0.087	J
123-91-1	1,4-Dioxane	4,500	34	4.1	1,200	9.4	1.1	D
80-62-6	Methyl Methacrylate	ND	7.2	1.2	ND	1.7	0.30	
142-82-5	n-Heptane	ND	3.4	0.55	ND	0.84	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	3.3	0.54	ND	0.72	0.12	
108-10-1	4-Methyl-2-pentanone	ND	7.2	0.47	ND	1.7	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	3.3	0.72	ND	0.73	0.16	
79-00-5	1,1,2-Trichloroethane	2.1	3.4	0.35	0.39	0.62	0.064	J
108-88-3	Toluene	1.8	3.4	0.42	0.47	0.90	0.11	J
591-78-6	2-Hexanone	1.8	7.2	0.43	0.44	1.7	0.10	J
124-48-1	Dibromochloromethane	ND	3.4	0.46	ND	0.40	0.053	
106-93-4	1,2-Dibromoethane	ND	3.4	0.40	ND	0.44	0.052	
123-86-4	n-Butyl Acetate	ND	7.2	0.47	ND	1.5	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00543

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -6.41 Final Pressure (psig): 6.85

Canister Dilution Factor: 2.60

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	3.4	0.78	ND	0.74	0.17	
127-18-4	Tetrachloroethene	8.3	3.4	0.45	1.2	0.50	0.066	
108-90-7	Chlorobenzene	ND	3.4	0.46	ND	0.73	0.10	
100-41-4	Ethylbenzene	29	3.4	0.49	6.7	0.78	0.11	
179601-23-1	m,p-Xylenes	100	7.2	0.91	23	1.6	0.21	
75-25-2	Bromoform	ND	3.4	0.72	ND	0.33	0.069	
100-42-5	Styrene	ND	3.3	0.56	ND	0.76	0.13	
95-47-6	o-Xylene	93	3.4	0.50	21	0.78	0.12	
111-84-2	n-Nonane	ND	3.4	0.58	ND	0.64	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.4	0.48	ND	0.49	0.070	
98-82-8	Cumene	1.4	3.4	0.50	0.28	0.69	0.10	J
80-56-8	alpha-Pinene	0.73	3.5	0.53	0.13	0.63	0.096	J
103-65-1	n-Propylbenzene	3.0	3.4	0.50	0.60	0.70	0.10	J
622-96-8	4-Ethyltoluene	3.3	3.4	0.55	0.67	0.70	0.11	J
108-67-8	1,3,5-Trimethylbenzene	3.9	3.4	0.50	0.80	0.69	0.10	
95-63-6	1,2,4-Trimethylbenzene	11	3.4	0.48	2.2	0.69	0.098	
100-44-7	Benzyl Chloride	ND	7.2	0.78	ND	1.4	0.15	
541-73-1	1,3-Dichlorobenzene	ND	3.4	0.52	ND	0.56	0.087	
106-46-7	1,4-Dichlorobenzene	ND	3.4	0.53	ND	0.56	0.089	
95-50-1	1,2-Dichlorobenzene	ND	3.4	0.51	ND	0.57	0.085	
5989-27-5	d-Limonene	5.2	3.3	0.72	0.93	0.58	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.5	0.65	ND	0.67	0.067	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	0.85	ND	0.96	0.11	
91-20-3	Naphthalene	1.7	3.4	0.85	0.32	0.65	0.16	J
87-68-3	Hexachlorobutadiene	ND	3.4	0.72	ND	0.32	0.067	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00517

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.73 Final Pressure (psig): 6.64

Canister Dilution Factor: 2.14

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	130	2.8	0.70	77	1.6	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.8	0.47	0.51	0.57	0.094	J
74-87-3	Chloromethane	0.61	2.7	0.46	0.30	1.3	0.22	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.9	0.45	ND	0.41	0.064	
75-01-4	Vinyl Chloride	ND	2.8	0.30	ND	1.1	0.12	
106-99-0	1,3-Butadiene	ND	2.8	0.47	ND	1.3	0.21	
74-83-9	Bromomethane	ND	2.7	0.40	ND	0.70	0.10	
75-00-3	Chloroethane	ND	2.7	0.35	ND	1.0	0.13	
64-17-5	Ethanol	46	27	2.0	24	14	1.1	
75-05-8	Acetonitrile	ND	5.4	0.70	ND	3.2	0.41	
107-02-8	Acrolein	ND	5.4	0.80	ND	2.3	0.35	
67-64-1	Acetone	46	28	6.4	19	12	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.8	0.43	0.21	0.50	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	5.4	1.2	1.1	2.2	0.48	J
107-13-1	Acrylonitrile	ND	5.4	0.59	ND	2.5	0.27	
75-35-4	1,1-Dichloroethene	14	2.9	0.40	3.5	0.73	0.10	
75-09-2	Methylene Chloride	ND	2.8	0.80	ND	0.80	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.8	0.39	ND	0.91	0.12	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.44	2.9	0.41	0.057	0.38	0.053	J
75-15-0	Carbon Disulfide	0.89	5.9	0.86	0.29	1.9	0.27	J
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.40	ND	0.72	0.10	
75-34-3	1,1-Dichloroethane	ND	2.8	0.42	ND	0.70	0.10	
1634-04-4	Methyl tert-Butyl Ether	ND	2.8	0.34	ND	0.79	0.094	
108-05-4	Vinyl Acetate	ND	27	6.4	ND	7.6	1.8	
78-93-3	2-Butanone (MEK)	5.7	5.4	0.59	1.9	1.8	0.20	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00517

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.73 Final Pressure (psig): 6.64

Canister Dilution Factor: 2.14

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.40	ND	0.70	0.10	
141-78-6	Ethyl Acetate	1.6	11	1.5	0.43	3.1	0.42	J
110-54-3	n-Hexane	ND	2.8	0.59	ND	0.80	0.17	
67-66-3	Chloroform	0.58	2.9	0.38	0.12	0.59	0.078	J
109-99-9	Tetrahydrofuran (THF)	2.3	5.4	0.36	0.78	1.8	0.12	J
107-06-2	1,2-Dichloroethane	ND	2.8	0.32	ND	0.70	0.078	
71-55-6	1,1,1-Trichloroethane	4.2	2.8	0.35	0.77	0.51	0.065	
71-43-2	Benzene	ND	2.7	0.41	ND	0.84	0.13	
56-23-5	Carbon Tetrachloride	ND	2.7	0.40	ND	0.43	0.063	
110-82-7	Cyclohexane	0.95	5.9	0.80	0.28	1.7	0.23	J
78-87-5	1,2-Dichloropropane	ND	2.7	0.35	ND	0.58	0.076	
75-27-4	Bromodichloromethane	ND	2.8	0.41	ND	0.42	0.062	
79-01-6	Trichloroethene	ND	2.8	0.39	ND	0.52	0.072	
123-91-1	1,4-Dioxane	360	2.8	0.34	99	0.77	0.094	
80-62-6	Methyl Methacrylate	ND	5.9	1.0	ND	1.4	0.25	
142-82-5	n-Heptane	ND	2.8	0.45	ND	0.69	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.44	ND	0.59	0.098	
108-10-1	4-Methyl-2-pentanone	6.7	5.9	0.39	1.6	1.4	0.095	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.59	ND	0.60	0.13	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.29	ND	0.51	0.053	
108-88-3	Toluene	5.1	2.8	0.35	1.4	0.74	0.092	
591-78-6	2-Hexanone	ND	5.9	0.35	ND	1.4	0.086	
124-48-1	Dibromochloromethane	ND	2.8	0.37	ND	0.33	0.044	
106-93-4	1,2-Dibromoethane	ND	2.8	0.33	ND	0.36	0.043	
123-86-4	n-Butyl Acetate	0.52	5.9	0.39	0.11	1.2	0.082	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03@ manifold

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P2105624-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00517

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.73 Final Pressure (psig): 6.64

Canister Dilution Factor: 2.14

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.8	0.64	ND	0.61	0.14	
127-18-4	Tetrachloroethene	5.4	2.8	0.37	0.79	0.41	0.054	
108-90-7	Chlorobenzene	ND	2.8	0.38	ND	0.60	0.083	
100-41-4	Ethylbenzene	5.7	2.8	0.40	1.3	0.64	0.092	
179601-23-1	m,p-Xylenes	28	5.9	0.75	6.5	1.4	0.17	
75-25-2	Bromoform	ND	2.8	0.59	ND	0.27	0.057	
100-42-5	Styrene	0.63	2.7	0.46	0.15	0.63	0.11	J
95-47-6	o-Xylene	14	2.8	0.41	3.3	0.64	0.095	
111-84-2	n-Nonane	ND	2.8	0.48	ND	0.53	0.091	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.40	ND	0.41	0.058	
98-82-8	Cumene	ND	2.8	0.41	ND	0.57	0.084	
80-56-8	alpha-Pinene	1.7	2.9	0.44	0.30	0.52	0.079	J
103-65-1	n-Propylbenzene	1.3	2.8	0.41	0.26	0.58	0.084	J
622-96-8	4-Ethyltoluene	1.9	2.8	0.45	0.39	0.58	0.093	J
108-67-8	1,3,5-Trimethylbenzene	3.4	2.8	0.41	0.69	0.57	0.084	
95-63-6	1,2,4-Trimethylbenzene	13	2.8	0.40	2.6	0.57	0.081	
100-44-7	Benzyl Chloride	ND	5.9	0.64	ND	1.1	0.12	
541-73-1	1,3-Dichlorobenzene	ND	2.8	0.43	ND	0.46	0.071	
106-46-7	1,4-Dichlorobenzene	0.60	2.8	0.44	0.10	0.46	0.073	J
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.42	ND	0.47	0.070	
5989-27-5	d-Limonene	4.7	2.7	0.59	0.84	0.48	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	0.54	ND	0.55	0.055	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.70	ND	0.79	0.094	
91-20-3	Naphthalene	5.0	2.8	0.70	0.95	0.53	0.13	
87-68-3	Hexachlorobutadiene	ND	2.8	0.59	ND	0.26	0.055	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/3/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/3/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/3/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 9/30/21
 Date(s) Received: 10/25/21
 Date(s) Analyzed: 11/3 - 11/5/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211103-MB	108	98	86	70-130	
Method Blank	P211104-MB	102	98	92	70-130	
Lab Control Sample	P211103-LCS	107	92	89	70-130	
Lab Control Sample	P211104-LCS	103	94	93	70-130	
Duplicate Lab Control Sample	P211103-DLCS	102	97	94	70-130	
Duplicate Lab Control Sample	P211104-DLCS	100	95	95	70-130	
Post Carbon	P2105624-001	101	98	97	70-130	
Post Carbon 1	P2105624-002	103	96	94	70-130	
Post Carbon 2	P2105624-003	99	100	101	70-130	
SVE-EXT-01@ manifold	P2105624-004	99	100	100	70-130	
SVE-EXT-02@ manifold	P2105624-005	99	100	100	70-130	
SVE-EXT-03@ manifold	P2105624-006	99	99	99	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	230	221	112	107	56-128	5	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	205	198	99	95	71-112	4	25	
74-87-3	Chloromethane	206	225	213	109	103	53-126	6	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	254	240	122	115	62-121	6	25	L
75-01-4	Vinyl Chloride	208	238	222	114	107	63-123	6	25	
106-99-0	1,3-Butadiene	206	241	224	117	109	63-135	7	25	
74-83-9	Bromomethane	206	207	207	100	100	71-112	0	25	
75-00-3	Chloroethane	206	207	207	100	100	66-117	0	25	
64-17-5	Ethanol	832	862	839	104	101	57-117	3	25	
75-05-8	Acetonitrile	202	180	179	89	89	59-131	0	25	
107-02-8	Acrolein	416	454	446	109	107	71-123	2	25	
67-64-1	Acetone	1,020	1120	1060	110	104	60-117	6	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	208	202	103	100	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	436	421	109	105	61-124	4	25	
107-13-1	Acrylonitrile	402	456	440	113	109	65-130	4	25	
75-35-4	1,1-Dichloroethene	210	223	218	106	104	74-114	2	25	
75-09-2	Methylene Chloride	208	209	203	100	98	75-112	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	201	196	99	96	57-127	3	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	213	214	99	99	73-114	0	25	
75-15-0	Carbon Disulfide	414	435	412	105	100	70-113	5	25	
156-60-5	trans-1,2-Dichloroethene	208	230	222	111	107	76-119	4	25	
75-34-3	1,1-Dichloroethane	214	219	212	102	99	70-114	3	25	
1634-04-4	Methyl tert-Butyl Ether	206	223	216	108	105	72-118	3	25	
108-05-4	Vinyl Acetate	942	1050	995	111	106	56-137	5	25	
78-93-3	2-Butanone (MEK)	408	483	463	118	113	74-121	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	206	225	215	109	104	73-117	5	25	
141-78-6	Ethyl Acetate	580	699	640	121	110	59-161	10	25	
110-54-3	n-Hexane	208	239	220	115	106	55-130	8	25	
67-66-3	Chloroform	210	228	215	109	102	71-114	7	25	
109-99-9	Tetrahydrofuran (THF)	404	479	457	119	113	73-114	5	25	L
107-06-2	1,2-Dichloroethane	210	223	212	106	101	71-119	5	25	
71-55-6	1,1,1-Trichloroethane	208	203	199	98	96	73-119	2	25	
71-43-2	Benzene	208	211	204	101	98	72-113	3	25	
56-23-5	Carbon Tetrachloride	202	206	203	102	100	67-123	2	25	
110-82-7	Cyclohexane	412	457	438	111	106	70-119	5	25	
78-87-5	1,2-Dichloropropane	206	215	208	104	101	70-118	3	25	
75-27-4	Bromodichloromethane	208	225	217	108	104	74-119	4	25	
79-01-6	Trichloroethene	204	223	219	109	107	74-115	2	25	
123-91-1	1,4-Dioxane	206	238	230	116	112	77-124	4	25	
80-62-6	Methyl Methacrylate	410	492	475	120	116	78-126	3	25	
142-82-5	n-Heptane	206	232	222	113	108	70-119	5	25	
10061-01-5	cis-1,3-Dichloropropene	208	245	235	118	113	81-126	4	25	
108-10-1	4-Methyl-2-pentanone	412	516	489	125	119	73-129	5	25	
10061-02-6	trans-1,3-Dichloropropene	200	230	221	115	111	80-127	4	25	
79-00-5	1,1,2-Trichloroethane	208	218	209	105	100	78-117	5	25	
108-88-3	Toluene	206	196	202	95	98	70-118	3	25	
591-78-6	2-Hexanone	406	482	482	119	119	74-132	0	25	
124-48-1	Dibromochloromethane	210	210	219	100	104	69-137	4	25	
106-93-4	1,2-Dibromoethane	208	209	217	100	104	76-128	4	25	
123-86-4	n-Butyl Acetate	406	503	499	124	123	75-134	0.8	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211103-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	215	219	103	105	68-120	2	25	
127-18-4	Tetrachloroethene	212	199	209	94	99	63-130	5	25	
108-90-7	Chlorobenzene	206	209	212	101	103	70-118	2	25	
100-41-4	Ethylbenzene	206	212	215	103	104	71-123	1	25	
179601-23-1	m,p-Xylenes	416	441	444	106	107	67-127	0.9	25	
75-25-2	Bromoform	210	214	225	102	107	65-149	5	25	
100-42-5	Styrene	202	222	227	110	112	76-132	2	25	
95-47-6	o-Xylene	208	218	220	105	106	69-124	0.9	25	
111-84-2	n-Nonane	208	226	223	109	107	64-127	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	223	225	107	108	69-128	0.9	25	
98-82-8	Cumene	206	220	223	107	108	69-125	0.9	25	
80-56-8	alpha-Pinene	210	229	233	109	111	68-129	2	25	
103-65-1	n-Propylbenzene	208	220	221	106	106	70-127	0	25	
622-96-8	4-Ethyltoluene	208	231	234	111	113	69-127	2	25	
108-67-8	1,3,5-Trimethylbenzene	208	230	233	111	112	66-129	0.9	25	
95-63-6	1,2,4-Trimethylbenzene	206	252	249	122	121	63-142	0.8	25	
100-44-7	Benzyl Chloride	416	440	441	106	106	73-145	0	25	
541-73-1	1,3-Dichlorobenzene	208	241	241	116	116	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	210	217	220	103	105	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	210	240	239	114	114	64-139	0	25	
5989-27-5	d-Limonene	206	262	259	127	126	63-137	0.8	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	456	460	113	114	72-145	0.9	25	
120-82-1	1,2,4-Trichlorobenzene	420	496	492	118	117	62-154	0.9	25	
91-20-3	Naphthalene	210	221	223	105	106	62-156	0.9	25	
87-68-3	Hexachlorobutadiene	212	217	219	102	103	55-142	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	210	227	102	110	56-128	8	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	190	203	91	98	71-112	7	25	
74-87-3	Chloromethane	206	210	207	102	100	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	239	236	115	113	62-121	2	25	
75-01-4	Vinyl Chloride	208	219	218	105	105	63-123	0	25	
106-99-0	1,3-Butadiene	206	221	220	107	107	63-135	0	25	
74-83-9	Bromomethane	206	205	209	100	101	71-112	1	25	
75-00-3	Chloroethane	206	205	208	100	101	66-117	1	25	
64-17-5	Ethanol	832	850	839	102	101	57-117	1	25	
75-05-8	Acetonitrile	202	178	179	88	89	59-131	1	25	
107-02-8	Acrolein	416	442	444	106	107	71-123	0.9	25	
67-64-1	Acetone	1,020	1060	1040	104	102	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	203	202	100	100	71-114	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	422	416	106	104	61-124	2	25	
107-13-1	Acrylonitrile	402	442	442	110	110	65-130	0	25	
75-35-4	1,1-Dichloroethene	210	217	216	103	103	74-114	0	25	
75-09-2	Methylene Chloride	208	204	202	98	97	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	196	193	96	95	57-127	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	215	216	100	100	73-114	0	25	
75-15-0	Carbon Disulfide	414	414	405	100	98	70-113	2	25	
156-60-5	trans-1,2-Dichloroethene	208	222	219	107	105	76-119	2	25	
75-34-3	1,1-Dichloroethane	214	213	210	100	98	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	206	219	217	106	105	72-118	0.9	25	
108-05-4	Vinyl Acetate	942	1010	992	107	105	56-137	2	25	
78-93-3	2-Butanone (MEK)	408	461	451	113	111	74-121	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/4/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD Limit		
156-59-2	cis-1,2-Dichloroethene	206	217	213	105	103	73-117	2	25	
141-78-6	Ethyl Acetate	580	645	622	111	107	59-161	4	25	
110-54-3	n-Hexane	208	223	216	107	104	55-130	3	25	
67-66-3	Chloroform	210	216	211	103	100	71-114	3	25	
109-99-9	Tetrahydrofuran (THF)	404	456	446	113	110	73-114	3	25	
107-06-2	1,2-Dichloroethane	210	213	208	101	99	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	208	202	201	97	97	73-119	0	25	
71-43-2	Benzene	208	207	205	100	99	72-113	1	25	
56-23-5	Carbon Tetrachloride	202	204	204	101	101	67-123	0	25	
110-82-7	Cyclohexane	412	439	433	107	105	70-119	2	25	
78-87-5	1,2-Dichloropropane	206	211	209	102	101	70-118	1	25	
75-27-4	Bromodichloromethane	208	219	217	105	104	74-119	1	25	
79-01-6	Trichloroethene	204	219	218	107	107	74-115	0	25	
123-91-1	1,4-Dioxane	206	232	229	113	111	77-124	2	25	
80-62-6	Methyl Methacrylate	410	478	473	117	115	78-126	2	25	
142-82-5	n-Heptane	206	223	221	108	107	70-119	0.9	25	
10061-01-5	cis-1,3-Dichloropropene	208	237	234	114	113	81-126	0.9	25	
108-10-1	4-Methyl-2-pentanone	412	497	485	121	118	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	200	223	221	112	111	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	208	212	209	102	100	78-117	2	25	
108-88-3	Toluene	206	195	198	95	96	70-118	1	25	
591-78-6	2-Hexanone	406	474	472	117	116	74-132	0.9	25	
124-48-1	Dibromochloromethane	210	211	216	100	103	69-137	3	25	
106-93-4	1,2-Dibromoethane	208	210	215	101	103	76-128	2	25	
123-86-4	n-Butyl Acetate	406	493	489	121	120	75-134	0.8	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: SVE Performance / KUH0-21-010

ALS Project ID: P2105624

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/4/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	215	216	103	104	68-120	1	25	
127-18-4	Tetrachloroethene	212	203	209	96	99	63-130	3	25	
108-90-7	Chlorobenzene	206	206	207	100	100	70-118	0	25	
100-41-4	Ethylbenzene	206	209	211	101	102	71-123	1	25	
179601-23-1	m,p-Xylenes	416	431	432	104	104	67-127	0	25	
75-25-2	Bromoform	210	216	224	103	107	65-149	4	25	
100-42-5	Styrene	202	219	221	108	109	76-132	0.9	25	
95-47-6	o-Xylene	208	215	214	103	103	69-124	0	25	
111-84-2	n-Nonane	208	222	218	107	105	64-127	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	220	220	106	106	69-128	0	25	
98-82-8	Cumene	206	215	216	104	105	69-125	1	25	
80-56-8	alpha-Pinene	210	226	227	108	108	68-129	0	25	
103-65-1	n-Propylbenzene	208	215	214	103	103	70-127	0	25	
622-96-8	4-Ethyltoluene	208	227	227	109	109	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	226	226	109	109	66-129	0	25	
95-63-6	1,2,4-Trimethylbenzene	206	244	240	118	117	63-142	0.9	25	
100-44-7	Benzyl Chloride	416	432	432	104	104	73-145	0	25	
541-73-1	1,3-Dichlorobenzene	208	234	232	113	112	67-136	0.9	25	
106-46-7	1,4-Dichlorobenzene	210	213	213	101	101	63-134	0	25	
95-50-1	1,2-Dichlorobenzene	210	233	231	111	110	64-139	0.9	25	
5989-27-5	d-Limonene	206	255	252	124	122	63-137	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	445	446	110	110	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	420	476	473	113	113	62-154	0	25	
91-20-3	Naphthalene	210	214	215	102	102	62-156	0	25	
87-68-3	Hexachlorobutadiene	212	213	215	100	101	55-142	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

January 14, 2022

Collin Creel
Environmental Management Services, Inc.
PO Box 15369
Hattiesburg, MS 39402

RE: SVE Performance Monitoring / KUH0-21-010

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on January 3, 2022. For your reference, these analyses have been assigned our service request number P2200013.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 3:30 pm, Jan 14, 2022

Sue Anderson
Project Manager



Client: Environmental Management Services, Inc.
Project: SVE Performance Monitoring / KUH0-21-010

Service Request No: P2200013

CASE NARRATIVE

The samples were received intact under chain of custody on January 3, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for alpha-pinene in the Laboratory Control Sample (LCS) and Duplicate Laboratory Sample (DLCS) analyzed on January 4, 2022 and in the Continuing Calibration Verification (CCV), Laboratory Control Samples (LCS) and Duplicate Laboratory Samples (DLCS) analyzed on January 5, 2022. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
 Project ID: SVE Performance Monitoring / KUH0-21-010

Service Request: P2200013

Date Received: 1/3/2022
 Time Received: 09:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
Pre Carbon	P2200013-001	Air	12/14/2021	12:14	1SC00546	-0.62	6.73	X
Pre Carbon 1	P2200013-002	Air	12/14/2021	12:16	1SC01294	-1.20	6.55	X
Post Carbon 2	P2200013-003	Air	12/14/2021	12:18	1SS00721	-1.24	6.34	X
SVE-EXT-01 @ manifold	P2200013-004	Air	12/14/2021	12:53	1SC01023	-3.04	6.68	X
SVE-EXT-02 @ manifold	P2200013-005	Air	12/14/2021	12:55	1SC01125	-4.83	6.00	X
SVE-EXT-03 @ manifold	P2200013-006	Air	12/14/2021	12:58	1SC00005	-4.05	6.95	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

Company Name & Address (Reporting Information)		Requested Turnaround Time in Business Days (Surcharges) please circle		ALS Project No.	
EMS, Inc PO Box 15369 Hot Springs, MS 39404 Project Manager Collin Creel Phone 9855160142 Email Address for Result Reporting ccreel@env-mgt.com		1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		72-00013	
Project Name		ALS Contact:		Analysis Method	
SUE Performance Monitoring		TO/S			
P.O. # / Billing Information		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg	
KUH0-21-010		Collin Creel		-30	
Sampler (Print & Sign)		Canister ID (Bar code # - AC, SC, etc.)		Canister End Pressure "Hg/psig	
Collin Creel		1SC0098		0	
Client Sample ID		Date Collected		Time Collected	
Pre Carbon	1	12/14/21	12:14		1L
Post Carbon 1	2	12/14/21	12:16		1L
Post Carbon 2	3	12/14/21	12:18		1L
SUE-EXT-01 @ mald	4	12/14/21	12:53		1L
SUE-EXT-02 @ mald	5	12/14/21	12:55		1L
SUE-EXT-03 @ mald	6	12/14/21	12:58		1L

Report Tier Levels - please select		Chain of Custody Seal: (circle)	
Tier I - Results (Default if not specified)	Tier III (Results + QC & Calibration Summaries)	INTACT	BROKEN
Tier II (Results + QC Summaries)	Tier IV (Data Validation Package) 10% Surcharge		

Relinquished by: (Signature)	Date: 12/29/21	Time: 12:00	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 1-3-22	Time: 0830

Project Requirements (MRLs, QAPP) ABSENT

Project Name: SUE Performance Monitoring

Project Number: KUH0-21-010

Requested Turnaround Time: 1 Day (100%)

Chain of Custody Seal: INTACT

Relinquished by: Collin Creel

Received by: Fed Ex

Temperature: Cooler / Blank

**ALS Environmental
Sample Acceptance Check Form**

Client: Environmental Management Services, Inc. Work order: P2200013
 Project: SVE Performance Monitoring / KUH0-21-010
 Sample(s) received on: 1/3/22 Date opened: 1/3/22 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2200013-001.01	1.0 L Source Can					
P2200013-002.01	1.0 L Source Can					
P2200013-003.01	1.0 L Source Silonite Canister					
P2200013-004.01	1.0 L Source Can					
P2200013-005.01	1.0 L Source Can					
P2200013-006.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00546

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4 - 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -0.62 Final Pressure (psig): 6.73

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	91	2.0	0.49	53	1.1	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.3	2.0	0.33	0.68	0.41	0.067	B
74-87-3	Chloromethane	2.7	1.9	0.33	1.3	0.94	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.49	2.1	0.32	0.070	0.29	0.046	J
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.77	0.085	
106-99-0	1,3-Butadiene	ND	2.0	0.33	ND	0.89	0.15	
74-83-9	Bromomethane	0.83	1.9	0.28	0.21	0.50	0.072	J
75-00-3	Chloroethane	0.54	1.9	0.25	0.20	0.73	0.095	J
64-17-5	Ethanol	77	19	1.4	41	10	0.75	
75-05-8	Acetonitrile	0.95	3.8	0.49	0.56	2.3	0.29	J
107-02-8	Acrolein	3.4	3.8	0.57	1.5	1.7	0.25	J
67-64-1	Acetone	79	20	4.6	33	8.3	1.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.4	2.0	0.31	0.25	0.35	0.055	J
67-63-0	2-Propanol (Isopropyl Alcohol)	5.6	3.8	0.84	2.3	1.5	0.34	
107-13-1	Acrylonitrile	ND	3.8	0.42	ND	1.8	0.19	
75-35-4	1,1-Dichloroethene	92	2.1	0.28	23	0.52	0.071	B
75-09-2	Methylene Chloride	ND	2.0	0.57	ND	0.57	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.27	ND	0.64	0.087	
76-13-1	Trichlorotrifluoroethane (CFC 113)	1.3	2.1	0.29	0.17	0.27	0.038	J
75-15-0	Carbon Disulfide	3.7	4.2	0.61	1.2	1.3	0.20	J
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.28	ND	0.51	0.071	
75-34-3	1,1-Dichloroethane	2.2	2.0	0.30	0.54	0.50	0.073	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.24	ND	0.56	0.066	
108-05-4	Vinyl Acetate	ND	19	4.6	ND	5.4	1.3	
78-93-3	2-Butanone (MEK)	19	3.8	0.42	6.6	1.3	0.14	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00546

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4 - 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -0.62 Final Pressure (psig): 6.73

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.50	0.072	
141-78-6	Ethyl Acetate	1.2	8.0	1.1	0.34	2.2	0.30	J
110-54-3	n-Hexane	ND	2.0	0.42	ND	0.57	0.12	
67-66-3	Chloroform	1.5	2.1	0.27	0.31	0.42	0.055	J
109-99-9	Tetrahydrofuran (THF)	4.4	3.8	0.25	1.5	1.3	0.086	
107-06-2	1,2-Dichloroethane	0.38	2.0	0.22	0.095	0.50	0.055	J
71-55-6	1,1,1-Trichloroethane	25	2.0	0.25	4.6	0.36	0.046	
71-43-2	Benzene	1.5	1.9	0.29	0.47	0.59	0.092	J
56-23-5	Carbon Tetrachloride	0.48	1.9	0.28	0.076	0.30	0.045	J
110-82-7	Cyclohexane	ND	4.2	0.57	ND	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	1.9	0.25	ND	0.41	0.054	
75-27-4	Bromodichloromethane	ND	2.0	0.29	ND	0.30	0.044	
79-01-6	Trichloroethene	ND	2.0	0.27	ND	0.37	0.051	
123-91-1	1,4-Dioxane	1,200	20	2.4	340	5.5	0.66	D
80-62-6	Methyl Methacrylate	ND	4.2	0.72	ND	1.0	0.18	
142-82-5	n-Heptane	1.3	2.0	0.32	0.32	0.49	0.079	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.32	ND	0.42	0.070	
108-10-1	4-Methyl-2-pentanone	3.0	4.2	0.28	0.72	1.0	0.068	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.42	ND	0.43	0.092	
79-00-5	1,1,2-Trichloroethane	0.74	2.0	0.21	0.14	0.36	0.038	J
108-88-3	Toluene	8.4	2.0	0.25	2.2	0.52	0.066	
591-78-6	2-Hexanone	1.2	4.2	0.25	0.30	1.0	0.061	J
124-48-1	Dibromochloromethane	ND	2.0	0.27	ND	0.24	0.031	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	1.6	4.2	0.28	0.34	0.88	0.058	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00546

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4 - 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -0.62 Final Pressure (psig): 6.73

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.93	2.0	0.46	0.20	0.43	0.098	J
127-18-4	Tetrachloroethene	5.5	2.0	0.26	0.81	0.29	0.039	
108-90-7	Chlorobenzene	ND	2.0	0.27	ND	0.43	0.059	
100-41-4	Ethylbenzene	4.0	2.0	0.29	0.92	0.46	0.066	
179601-23-1	m,p-Xylenes	17	4.2	0.53	4.0	0.96	0.12	
75-25-2	Bromoform	ND	2.0	0.42	ND	0.19	0.040	
100-42-5	Styrene	0.33	1.9	0.33	0.079	0.45	0.077	J
95-47-6	o-Xylene	6.6	2.0	0.29	1.5	0.46	0.067	
111-84-2	n-Nonane	0.78	2.0	0.34	0.15	0.38	0.064	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.28	ND	0.29	0.041	
98-82-8	Cumene	0.41	2.0	0.29	0.083	0.40	0.060	J
80-56-8	alpha-Pinene	2.5	2.1	0.31	0.45	0.37	0.056	
103-65-1	n-Propylbenzene	0.70	2.0	0.29	0.14	0.41	0.060	J
622-96-8	4-Ethyltoluene	0.84	2.0	0.32	0.17	0.41	0.066	J
108-67-8	1,3,5-Trimethylbenzene	1.2	2.0	0.29	0.23	0.40	0.060	J
95-63-6	1,2,4-Trimethylbenzene	4.3	2.0	0.28	0.88	0.40	0.057	
100-44-7	Benzyl Chloride	ND	4.2	0.46	ND	0.81	0.088	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ND	0.33	0.051	
106-46-7	1,4-Dichlorobenzene	0.57	2.0	0.31	0.094	0.33	0.052	J
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.30	ND	0.34	0.050	
5989-27-5	d-Limonene	4.4	1.9	0.42	0.78	0.34	0.075	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.38	ND	0.39	0.039	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.49	ND	0.56	0.067	
91-20-3	Naphthalene	2.8	2.0	0.49	0.53	0.38	0.094	
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ND	0.19	0.039	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon 1
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01294

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.20 Final Pressure (psig): 6.55

Canister Dilution Factor: 1.57

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	340	2.0	0.51	200	1.2	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	2.1	0.34	0.74	0.42	0.069	B
74-87-3	Chloromethane	0.71	2.0	0.34	0.35	0.97	0.16	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.30	0.047	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.80	0.088	
106-99-0	1,3-Butadiene	ND	2.0	0.35	ND	0.92	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.52	0.075	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.76	0.098	
64-17-5	Ethanol	41	20	1.5	22	10	0.77	
75-05-8	Acetonitrile	0.66	3.9	0.51	0.39	2.3	0.30	J
107-02-8	Acrolein	1.1	3.9	0.59	0.50	1.7	0.26	J
67-64-1	Acetone	80	20	4.7	34	8.6	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.0	0.32	ND	0.36	0.057	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	3.9	0.86	0.61	1.6	0.35	J
107-13-1	Acrylonitrile	ND	3.9	0.43	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	ND	2.1	0.29	ND	0.53	0.073	
75-09-2	Methylene Chloride	4.6	2.0	0.59	1.3	0.59	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.28	ND	0.66	0.090	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.1	0.30	ND	0.28	0.039	
75-15-0	Carbon Disulfide	2.3	4.3	0.63	0.73	1.4	0.20	J
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.52	0.073	
75-34-3	1,1-Dichloroethane	ND	2.1	0.31	ND	0.51	0.076	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.58	0.069	
108-05-4	Vinyl Acetate	ND	20	4.7	ND	5.6	1.3	
78-93-3	2-Butanone (MEK)	3.6	3.9	0.43	1.2	1.3	0.15	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon 1
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01294

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.20 Final Pressure (psig): 6.55

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.51	0.074	
141-78-6	Ethyl Acetate	ND	8.2	1.1	ND	2.3	0.31	
110-54-3	n-Hexane	ND	2.1	0.43	ND	0.59	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.43	0.057	
109-99-9	Tetrahydrofuran (THF)	ND	3.9	0.26	ND	1.3	0.089	
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.51	0.057	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.26	ND	0.37	0.047	
71-43-2	Benzene	230	2.0	0.30	72	0.61	0.095	
56-23-5	Carbon Tetrachloride	ND	2.0	0.29	ND	0.31	0.046	
110-82-7	Cyclohexane	23	4.3	0.59	6.7	1.3	0.17	
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.42	0.056	
75-27-4	Bromodichloromethane	ND	2.1	0.30	ND	0.31	0.045	
79-01-6	Trichloroethene	ND	2.0	0.28	ND	0.38	0.053	
123-91-1	1,4-Dioxane	130	2.0	0.25	36	0.57	0.069	
80-62-6	Methyl Methacrylate	ND	4.3	0.75	ND	1.1	0.18	
142-82-5	n-Heptane	0.85	2.1	0.33	0.21	0.51	0.081	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.33	ND	0.43	0.072	
108-10-1	4-Methyl-2-pentanone	ND	4.3	0.29	ND	1.1	0.070	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ND	0.44	0.095	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.21	ND	0.37	0.039	
108-88-3	Toluene	1.9	2.0	0.26	0.51	0.54	0.068	J
591-78-6	2-Hexanone	ND	4.3	0.26	ND	1.1	0.063	
124-48-1	Dibromochloromethane	ND	2.1	0.27	ND	0.24	0.032	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.27	0.032	
123-86-4	n-Butyl Acetate	ND	4.3	0.29	ND	0.91	0.060	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Pre Carbon 1
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01294

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.20 Final Pressure (psig): 6.55

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.1	0.47	ND	0.45	0.10	
127-18-4	Tetrachloroethene	33	2.0	0.27	4.9	0.30	0.040	
108-90-7	Chlorobenzene	ND	2.0	0.28	ND	0.44	0.061	
100-41-4	Ethylbenzene	ND	2.0	0.29	ND	0.47	0.068	
179601-23-1	m,p-Xylenes	ND	4.3	0.55	ND	0.99	0.13	
75-25-2	Bromoform	ND	2.0	0.43	ND	0.20	0.042	
100-42-5	Styrene	ND	2.0	0.34	ND	0.46	0.079	
95-47-6	o-Xylene	ND	2.0	0.30	ND	0.47	0.070	
111-84-2	n-Nonane	ND	2.0	0.35	ND	0.39	0.067	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.29	ND	0.30	0.042	
98-82-8	Cumene	ND	2.0	0.30	ND	0.42	0.062	
80-56-8	alpha-Pinene	1.0	2.1	0.32	0.18	0.38	0.058	J
103-65-1	n-Propylbenzene	ND	2.1	0.30	ND	0.42	0.062	
622-96-8	4-Ethyltoluene	ND	2.1	0.33	ND	0.42	0.068	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.30	ND	0.42	0.062	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.29	ND	0.42	0.059	
100-44-7	Benzyl Chloride	ND	4.3	0.47	ND	0.83	0.091	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.34	0.052	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.32	ND	0.34	0.054	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.35	0.052	
5989-27-5	d-Limonene	1.7	2.0	0.43	0.31	0.35	0.078	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	0.39	ND	0.41	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	0.51	ND	0.58	0.069	
91-20-3	Naphthalene	ND	2.0	0.51	ND	0.39	0.097	
87-68-3	Hexachlorobutadiene	ND	2.0	0.43	ND	0.19	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Post Carbon 2
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00721

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.24 Final Pressure (psig): 6.34

Canister Dilution Factor: 1.56

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	250	2.0	0.51	140	1.2	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	2.1	0.34	0.61	0.42	0.069	
74-87-3	Chloromethane	0.59	2.0	0.34	0.29	0.96	0.16	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	0.33	ND	0.30	0.047	
75-01-4	Vinyl Chloride	ND	2.0	0.22	ND	0.79	0.087	
106-99-0	1,3-Butadiene	ND	2.0	0.34	ND	0.92	0.16	
74-83-9	Bromomethane	ND	2.0	0.29	ND	0.51	0.074	
75-00-3	Chloroethane	ND	2.0	0.26	ND	0.75	0.098	
64-17-5	Ethanol	150	20	1.4	82	10	0.77	
75-05-8	Acetonitrile	2.5	3.9	0.51	1.5	2.3	0.30	J
107-02-8	Acrolein	1.0	3.9	0.59	0.44	1.7	0.26	J
67-64-1	Acetone	ND	20	4.7	ND	8.5	2.0	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.0	0.32	ND	0.36	0.056	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	3.9	0.86	1.0	1.6	0.35	J
107-13-1	Acrylonitrile	ND	3.9	0.43	ND	1.8	0.20	
75-35-4	1,1-Dichloroethene	ND	2.1	0.29	ND	0.53	0.073	
75-09-2	Methylene Chloride	ND	2.0	0.59	ND	0.58	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.1	0.28	ND	0.66	0.090	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.1	0.30	ND	0.27	0.039	
75-15-0	Carbon Disulfide	9.9	4.3	0.62	3.2	1.4	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.29	ND	0.52	0.073	
75-34-3	1,1-Dichloroethane	ND	2.1	0.30	ND	0.51	0.075	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	0.25	ND	0.57	0.068	
108-05-4	Vinyl Acetate	ND	20	4.7	ND	5.5	1.3	
78-93-3	2-Butanone (MEK)	1.6	3.9	0.43	0.55	1.3	0.15	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Post Carbon 2
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00721

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.24 Final Pressure (psig): 6.34

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.29	ND	0.51	0.074	
141-78-6	Ethyl Acetate	7.0	8.2	1.1	1.9	2.3	0.30	J
110-54-3	n-Hexane	ND	2.1	0.43	ND	0.59	0.12	
67-66-3	Chloroform	ND	2.1	0.28	ND	0.43	0.057	
109-99-9	Tetrahydrofuran (THF)	0.98	3.9	0.26	0.33	1.3	0.089	J
107-06-2	1,2-Dichloroethane	ND	2.1	0.23	ND	0.51	0.057	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.26	ND	0.37	0.047	
71-43-2	Benzene	120	2.0	0.30	38	0.61	0.094	
56-23-5	Carbon Tetrachloride	ND	2.0	0.29	ND	0.31	0.046	
110-82-7	Cyclohexane	55	4.3	0.59	16	1.2	0.17	
78-87-5	1,2-Dichloropropane	ND	2.0	0.26	ND	0.42	0.056	
75-27-4	Bromodichloromethane	ND	2.1	0.30	ND	0.31	0.045	
79-01-6	Trichloroethene	0.67	2.0	0.28	0.12	0.38	0.052	J
123-91-1	1,4-Dioxane	3.1	2.0	0.25	0.86	0.56	0.068	
80-62-6	Methyl Methacrylate	ND	4.3	0.74	ND	1.0	0.18	
142-82-5	n-Heptane	ND	2.1	0.33	ND	0.50	0.081	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.32	ND	0.43	0.071	
108-10-1	4-Methyl-2-pentanone	ND	4.3	0.28	ND	1.0	0.069	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ND	0.44	0.095	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.21	ND	0.37	0.039	
108-88-3	Toluene	1.5	2.0	0.25	0.39	0.54	0.067	J
591-78-6	2-Hexanone	ND	4.3	0.26	ND	1.0	0.063	
124-48-1	Dibromochloromethane	ND	2.1	0.27	ND	0.24	0.032	
106-93-4	1,2-Dibromoethane	ND	2.0	0.24	ND	0.26	0.031	
123-86-4	n-Butyl Acetate	ND	4.3	0.28	ND	0.90	0.060	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: Post Carbon 2
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00721

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.24 Final Pressure (psig): 6.34

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.1	0.47	ND	0.44	0.10	
127-18-4	Tetrachloroethene	2.2	2.0	0.27	0.32	0.30	0.040	
108-90-7	Chlorobenzene	ND	2.0	0.28	ND	0.44	0.060	
100-41-4	Ethylbenzene	ND	2.0	0.29	ND	0.47	0.067	
179601-23-1	m,p-Xylenes	ND	4.3	0.55	ND	0.99	0.13	
75-25-2	Bromoform	ND	2.0	0.43	ND	0.20	0.042	
100-42-5	Styrene	ND	2.0	0.34	ND	0.46	0.079	
95-47-6	o-Xylene	ND	2.0	0.30	ND	0.47	0.069	
111-84-2	n-Nonane	ND	2.0	0.35	ND	0.39	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.29	ND	0.30	0.042	
98-82-8	Cumene	ND	2.0	0.30	ND	0.41	0.061	
80-56-8	alpha-Pinene	0.56	2.1	0.32	0.10	0.38	0.057	J, V
103-65-1	n-Propylbenzene	ND	2.1	0.30	ND	0.42	0.061	
622-96-8	4-Ethyltoluene	ND	2.1	0.33	ND	0.42	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.30	ND	0.41	0.061	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.29	ND	0.41	0.059	
100-44-7	Benzyl Chloride	ND	4.3	0.47	ND	0.83	0.090	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.31	ND	0.34	0.052	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.32	ND	0.34	0.053	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.31	ND	0.34	0.051	
5989-27-5	d-Limonene	2.5	2.0	0.43	0.44	0.35	0.077	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.9	0.39	ND	0.40	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	4.3	0.51	ND	0.58	0.068	
91-20-3	Naphthalene	1.0	2.0	0.51	0.20	0.39	0.097	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.43	ND	0.19	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-01 @ manifold
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01023

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.68

Canister Dilution Factor: 1.83

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	39	2.4	0.59	23	1.4	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.6	2.4	0.40	0.72	0.49	0.081	
74-87-3	Chloromethane	0.44	2.3	0.39	0.21	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.38	ND	0.35	0.055	
75-01-4	Vinyl Chloride	ND	2.4	0.26	ND	0.93	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.40	ND	1.1	0.18	
74-83-9	Bromomethane	ND	2.3	0.34	ND	0.60	0.087	
75-00-3	Chloroethane	ND	2.3	0.30	ND	0.88	0.11	
64-17-5	Ethanol	63	23	1.7	34	12	0.90	
75-05-8	Acetonitrile	ND	4.6	0.59	ND	2.7	0.35	
107-02-8	Acrolein	1.1	4.6	0.69	0.48	2.0	0.30	J
67-64-1	Acetone	37	24	5.5	15	10	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.3	2.4	0.37	0.24	0.42	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	13	4.6	1.0	5.3	1.9	0.41	
107-13-1	Acrylonitrile	ND	4.6	0.50	ND	2.1	0.23	
75-35-4	1,1-Dichloroethene	39	2.5	0.34	9.9	0.62	0.085	
75-09-2	Methylene Chloride	ND	2.4	0.69	ND	0.69	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.4	0.33	ND	0.77	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	1.6	2.5	0.35	0.21	0.32	0.045	J
75-15-0	Carbon Disulfide	2.6	5.0	0.73	0.84	1.6	0.24	J
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.34	ND	0.61	0.085	
75-34-3	1,1-Dichloroethane	0.93	2.4	0.36	0.23	0.60	0.088	J
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	0.29	ND	0.67	0.080	
108-05-4	Vinyl Acetate	ND	23	5.5	ND	6.5	1.6	
78-93-3	2-Butanone (MEK)	11	4.6	0.50	3.8	1.6	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01 @ manifold

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013

ALS Sample ID: P2200013-004

Test Code: EPA TO-15

Date Collected: 12/14/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 1/3/22

Analyst: Simon Cao

Date Analyzed: 1/5/22

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01023

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.68

Canister Dilution Factor: 1.83

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.34	ND	0.60	0.087	
141-78-6	Ethyl Acetate	21	9.6	1.3	5.9	2.7	0.36	
110-54-3	n-Hexane	ND	2.4	0.50	ND	0.69	0.14	
67-66-3	Chloroform	0.85	2.5	0.32	0.17	0.51	0.067	J
109-99-9	Tetrahydrofuran (THF)	4.2	4.6	0.31	1.4	1.6	0.10	J
107-06-2	1,2-Dichloroethane	ND	2.4	0.27	ND	0.60	0.067	
71-55-6	1,1,1-Trichloroethane	27	2.4	0.30	4.9	0.44	0.055	
71-43-2	Benzene	1.0	2.3	0.35	0.33	0.72	0.11	J
56-23-5	Carbon Tetrachloride	0.40	2.3	0.34	0.064	0.36	0.054	J
110-82-7	Cyclohexane	ND	5.0	0.69	ND	1.5	0.20	
78-87-5	1,2-Dichloropropane	ND	2.3	0.30	ND	0.50	0.065	
75-27-4	Bromodichloromethane	ND	2.4	0.35	ND	0.36	0.053	
79-01-6	Trichloroethene	ND	2.4	0.33	ND	0.44	0.061	
123-91-1	1,4-Dioxane	360	2.4	0.29	100	0.66	0.080	
80-62-6	Methyl Methacrylate	ND	5.0	0.87	ND	1.2	0.21	
142-82-5	n-Heptane	1.2	2.4	0.39	0.29	0.59	0.095	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.38	ND	0.50	0.084	
108-10-1	4-Methyl-2-pentanone	1.8	5.0	0.33	0.45	1.2	0.082	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.50	ND	0.51	0.11	
79-00-5	1,1,2-Trichloroethane	0.29	2.4	0.25	0.053	0.44	0.045	J
108-88-3	Toluene	12	2.4	0.30	3.2	0.63	0.079	
591-78-6	2-Hexanone	ND	5.0	0.30	ND	1.2	0.074	
124-48-1	Dibromochloromethane	ND	2.4	0.32	ND	0.28	0.038	
106-93-4	1,2-Dibromoethane	ND	2.4	0.28	ND	0.31	0.037	
123-86-4	n-Butyl Acetate	1.7	5.0	0.33	0.36	1.1	0.070	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-01 @ manifold

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013

ALS Sample ID: P2200013-004

Test Code: EPA TO-15

Date Collected: 12/14/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 1/3/22

Analyst: Simon Cao

Date Analyzed: 1/5/22

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01023

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.68

Canister Dilution Factor: 1.83

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.63	2.4	0.55	0.13	0.52	0.12	J
127-18-4	Tetrachloroethene	9.0	2.4	0.32	1.3	0.35	0.047	
108-90-7	Chlorobenzene	ND	2.4	0.32	ND	0.52	0.071	
100-41-4	Ethylbenzene	3.9	2.4	0.34	0.89	0.55	0.079	
179601-23-1	m,p-Xylenes	16	5.0	0.64	3.7	1.2	0.15	
75-25-2	Bromoform	ND	2.4	0.50	ND	0.23	0.049	
100-42-5	Styrene	0.50	2.3	0.39	0.12	0.54	0.092	J
95-47-6	o-Xylene	5.8	2.4	0.35	1.3	0.55	0.081	
111-84-2	n-Nonane	0.67	2.4	0.41	0.13	0.45	0.078	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.34	ND	0.35	0.049	
98-82-8	Cumene	ND	2.4	0.35	ND	0.48	0.072	
80-56-8	alpha-Pinene	2.5	2.5	0.38	0.45	0.44	0.067	V
103-65-1	n-Propylbenzene	0.54	2.4	0.35	0.11	0.49	0.072	J
622-96-8	4-Ethyltoluene	0.54	2.4	0.39	0.11	0.49	0.079	J
108-67-8	1,3,5-Trimethylbenzene	0.80	2.4	0.35	0.16	0.48	0.072	J
95-63-6	1,2,4-Trimethylbenzene	3.1	2.4	0.34	0.62	0.48	0.069	
100-44-7	Benzyl Chloride	ND	5.0	0.55	ND	0.97	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.37	ND	0.40	0.061	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.38	ND	0.40	0.062	
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.36	ND	0.40	0.060	
5989-27-5	d-Limonene	4.5	2.3	0.50	0.82	0.41	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	0.46	ND	0.47	0.047	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.59	ND	0.68	0.080	
91-20-3	Naphthalene	2.7	2.4	0.59	0.51	0.45	0.11	
87-68-3	Hexachlorobutadiene	ND	2.4	0.50	ND	0.22	0.047	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-02 @ manifold
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01125

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -4.83 Final Pressure (psig): 6.00

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	20	27	6.8	11	16	4.0	J
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	28	4.6	ND	5.6	0.92	
74-87-3	Chloromethane	ND	27	4.5	ND	13	2.2	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	28	4.4	ND	4.1	0.63	
75-01-4	Vinyl Chloride	ND	27	3.0	ND	11	1.2	
106-99-0	1,3-Butadiene	ND	27	4.6	ND	12	2.1	
74-83-9	Bromomethane	ND	27	3.9	ND	6.9	1.0	
75-00-3	Chloroethane	ND	27	3.5	ND	10	1.3	
64-17-5	Ethanol	ND	260	19	ND	140	10	
75-05-8	Acetonitrile	ND	53	6.8	ND	31	4.1	
107-02-8	Acrolein	ND	53	7.9	ND	23	3.4	
67-64-1	Acetone	ND	270	63	ND	110	27	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	27	4.3	ND	4.9	0.76	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	53	12	ND	21	4.7	
107-13-1	Acrylonitrile	ND	53	5.8	ND	24	2.7	
75-35-4	1,1-Dichloroethene	290	28	3.9	74	7.2	0.98	
75-09-2	Methylene Chloride	ND	27	7.9	ND	7.9	2.3	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	28	3.8	ND	8.9	1.2	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	28	4.0	ND	3.7	0.52	
75-15-0	Carbon Disulfide	100	58	8.4	34	19	2.7	
156-60-5	trans-1,2-Dichloroethene	ND	28	3.9	ND	7.0	0.98	
75-34-3	1,1-Dichloroethane	6.7	28	4.1	1.7	6.9	1.0	J
1634-04-4	Methyl tert-Butyl Ether	ND	28	3.3	ND	7.7	0.92	
108-05-4	Vinyl Acetate	ND	260	63	ND	75	18	
78-93-3	2-Butanone (MEK)	8.0	53	5.8	2.7	18	2.0	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-02 @ manifold
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01125

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -4.83 Final Pressure (psig): 6.00

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	27	3.9	ND	6.9	0.99	
141-78-6	Ethyl Acetate	ND	110	15	ND	31	4.1	
110-54-3	n-Hexane	ND	28	5.8	ND	7.9	1.6	
67-66-3	Chloroform	ND	28	3.7	ND	5.8	0.76	
109-99-9	Tetrahydrofuran (THF)	ND	53	3.5	ND	18	1.2	
107-06-2	1,2-Dichloroethane	ND	28	3.1	ND	6.9	0.77	
71-55-6	1,1,1-Trichloroethane	51	27	3.5	9.3	5.0	0.64	
71-43-2	Benzene	39	26	4.0	12	8.2	1.3	
56-23-5	Carbon Tetrachloride	ND	26	3.9	ND	4.2	0.62	
110-82-7	Cyclohexane	ND	58	7.9	ND	17	2.3	
78-87-5	1,2-Dichloropropane	ND	26	3.5	ND	5.7	0.75	
75-27-4	Bromodichloromethane	ND	28	4.0	ND	4.2	0.60	
79-01-6	Trichloroethene	ND	27	3.8	ND	5.1	0.70	
123-91-1	1,4-Dioxane	4,700	27	3.3	1,300	7.6	0.92	
80-62-6	Methyl Methacrylate	ND	58	10	ND	14	2.4	
142-82-5	n-Heptane	ND	28	4.5	ND	6.8	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	26	4.4	ND	5.8	0.96	
108-10-1	4-Methyl-2-pentanone	ND	58	3.8	ND	14	0.94	
10061-02-6	trans-1,3-Dichloropropene	ND	27	5.8	ND	5.9	1.3	
79-00-5	1,1,2-Trichloroethane	ND	27	2.8	ND	5.0	0.52	
108-88-3	Toluene	ND	27	3.4	ND	7.2	0.91	
591-78-6	2-Hexanone	ND	58	3.5	ND	14	0.85	
124-48-1	Dibromochloromethane	ND	28	3.7	ND	3.3	0.43	
106-93-4	1,2-Dibromoethane	ND	27	3.3	ND	3.6	0.42	
123-86-4	n-Butyl Acetate	ND	58	3.8	ND	12	0.81	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-02 @ manifold

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013

ALS Sample ID: P2200013-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01125

Date Collected: 12/14/21

Date Received: 1/3/22

Date Analyzed: 1/5/22

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -4.83 Final Pressure (psig): 6.00

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	28	6.3	ND	6.0	1.3	
127-18-4	Tetrachloroethene	11	27	3.6	1.6	4.0	0.53	J
108-90-7	Chlorobenzene	ND	27	3.7	ND	5.9	0.81	
100-41-4	Ethylbenzene	ND	27	3.9	ND	6.3	0.91	
179601-23-1	m,p-Xylenes	ND	58	7.4	ND	13	1.7	
75-25-2	Bromoform	ND	27	5.8	ND	2.6	0.56	
100-42-5	Styrene	ND	26	4.5	ND	6.2	1.1	
95-47-6	o-Xylene	ND	27	4.0	ND	6.3	0.93	
111-84-2	n-Nonane	ND	27	4.7	ND	5.2	0.89	
79-34-5	1,1,2,2-Tetrachloroethane	ND	27	3.9	ND	4.0	0.57	
98-82-8	Cumene	ND	27	4.0	ND	5.6	0.82	
80-56-8	alpha-Pinene	ND	28	4.3	ND	5.1	0.77	
103-65-1	n-Propylbenzene	ND	28	4.0	ND	5.7	0.82	
622-96-8	4-Ethyltoluene	ND	28	4.5	ND	5.7	0.91	
108-67-8	1,3,5-Trimethylbenzene	ND	27	4.0	ND	5.6	0.82	
95-63-6	1,2,4-Trimethylbenzene	ND	27	3.9	ND	5.6	0.79	
100-44-7	Benzyl Chloride	ND	58	6.3	ND	11	1.2	
541-73-1	1,3-Dichlorobenzene	ND	27	4.2	ND	4.5	0.70	
106-46-7	1,4-Dichlorobenzene	ND	27	4.3	ND	4.5	0.72	
95-50-1	1,2-Dichlorobenzene	ND	28	4.1	ND	4.6	0.69	
5989-27-5	d-Limonene	ND	26	5.8	ND	4.7	1.0	
96-12-8	1,2-Dibromo-3-chloropropane	ND	53	5.3	ND	5.4	0.54	
120-82-1	1,2,4-Trichlorobenzene	ND	58	6.8	ND	7.8	0.92	
91-20-3	Naphthalene	ND	27	6.8	ND	5.2	1.3	
87-68-3	Hexachlorobutadiene	ND	27	5.8	ND	2.6	0.54	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-03 @ manifold
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00005

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.05 Final Pressure (psig): 6.95

Canister Dilution Factor: 2.03

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	50	2.6	0.66	29	1.5	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.7	0.44	0.49	0.54	0.089	J
74-87-3	Chloromethane	1.3	2.6	0.44	0.62	1.3	0.21	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.7	0.43	ND	0.39	0.061	
75-01-4	Vinyl Chloride	ND	2.6	0.29	ND	1.0	0.11	
106-99-0	1,3-Butadiene	ND	2.6	0.45	ND	1.2	0.20	
74-83-9	Bromomethane	ND	2.6	0.38	ND	0.67	0.097	
75-00-3	Chloroethane	ND	2.6	0.33	ND	0.98	0.13	
64-17-5	Ethanol	140	25	1.9	74	13	1.0	
75-05-8	Acetonitrile	0.84	5.1	0.66	0.50	3.0	0.39	J
107-02-8	Acrolein	3.3	5.1	0.76	1.5	2.2	0.33	J
67-64-1	Acetone	83	26	6.1	35	11	2.6	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.6	0.41	0.21	0.47	0.073	J
67-63-0	2-Propanol (Isopropyl Alcohol)	12	5.1	1.1	4.9	2.1	0.45	
107-13-1	Acrylonitrile	ND	5.1	0.56	ND	2.3	0.26	
75-35-4	1,1-Dichloroethene	11	2.7	0.38	2.8	0.69	0.095	
75-09-2	Methylene Chloride	ND	2.6	0.76	ND	0.76	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.7	0.37	ND	0.86	0.12	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.45	2.7	0.39	0.058	0.36	0.050	J
75-15-0	Carbon Disulfide	1.8	5.6	0.81	0.58	1.8	0.26	J
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.38	ND	0.68	0.095	
75-34-3	1,1-Dichloroethane	ND	2.7	0.40	ND	0.66	0.098	
1634-04-4	Methyl tert-Butyl Ether	ND	2.7	0.32	ND	0.75	0.089	
108-05-4	Vinyl Acetate	ND	25	6.1	ND	7.2	1.7	
78-93-3	2-Butanone (MEK)	27	5.1	0.56	9.3	1.7	0.19	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: SVE-EXT-03 @ manifold
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P2200013-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00005

Date Collected: 12/14/21
 Date Received: 1/3/22
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.05 Final Pressure (psig): 6.95

Canister Dilution Factor: 2.03

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.38	ND	0.67	0.096	
141-78-6	Ethyl Acetate	53	11	1.4	15	3.0	0.39	
110-54-3	n-Hexane	17	2.7	0.56	4.9	0.76	0.16	
67-66-3	Chloroform	0.78	2.7	0.36	0.16	0.56	0.074	J
109-99-9	Tetrahydrofuran (THF)	5.5	5.1	0.34	1.9	1.7	0.12	
107-06-2	1,2-Dichloroethane	ND	2.7	0.30	ND	0.66	0.074	
71-55-6	1,1,1-Trichloroethane	3.1	2.6	0.33	0.56	0.48	0.061	
71-43-2	Benzene	1.3	2.5	0.39	0.40	0.79	0.12	J
56-23-5	Carbon Tetrachloride	ND	2.5	0.38	ND	0.40	0.060	
110-82-7	Cyclohexane	ND	5.6	0.76	ND	1.6	0.22	
78-87-5	1,2-Dichloropropane	ND	2.5	0.33	ND	0.55	0.073	
75-27-4	Bromodichloromethane	ND	2.7	0.39	ND	0.40	0.058	
79-01-6	Trichloroethene	ND	2.6	0.37	ND	0.49	0.068	
123-91-1	1,4-Dioxane	260	2.6	0.32	72	0.73	0.089	
80-62-6	Methyl Methacrylate	ND	5.6	0.96	ND	1.4	0.24	
142-82-5	n-Heptane	2.1	2.7	0.43	0.51	0.66	0.11	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.42	ND	0.56	0.093	
108-10-1	4-Methyl-2-pentanone	4.1	5.6	0.37	0.99	1.4	0.090	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.56	ND	0.57	0.12	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.27	ND	0.48	0.050	
108-88-3	Toluene	20	2.6	0.33	5.2	0.70	0.088	
591-78-6	2-Hexanone	1.9	5.6	0.33	0.45	1.4	0.082	J
124-48-1	Dibromochloromethane	ND	2.7	0.36	ND	0.32	0.042	
106-93-4	1,2-Dibromoethane	ND	2.6	0.31	ND	0.34	0.041	
123-86-4	n-Butyl Acetate	2.3	5.6	0.37	0.49	1.2	0.078	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.

Client Sample ID: SVE-EXT-03 @ manifold

Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013

ALS Sample ID: P2200013-006

Test Code: EPA TO-15

Date Collected: 12/14/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 1/3/22

Analyst: Simon Cao

Date Analyzed: 1/5/22

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00005

Initial Pressure (psig): -4.05 Final Pressure (psig): 6.95

Canister Dilution Factor: 2.03

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	2.7	0.61	0.22	0.58	0.13	J
127-18-4	Tetrachloroethene	4.1	2.6	0.35	0.60	0.39	0.052	
108-90-7	Chlorobenzene	ND	2.6	0.36	ND	0.57	0.078	
100-41-4	Ethylbenzene	6.3	2.6	0.38	1.4	0.61	0.088	
179601-23-1	m,p-Xylenes	25	5.6	0.71	5.8	1.3	0.16	
75-25-2	Bromoform	ND	2.6	0.56	ND	0.26	0.054	
100-42-5	Styrene	0.52	2.5	0.44	0.12	0.60	0.10	J
95-47-6	o-Xylene	9.1	2.6	0.39	2.1	0.61	0.090	
111-84-2	n-Nonane	1.2	2.6	0.45	0.23	0.50	0.086	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.38	ND	0.38	0.055	
98-82-8	Cumene	0.42	2.6	0.39	0.086	0.54	0.080	J
80-56-8	alpha-Pinene	3.6	2.7	0.42	0.64	0.49	0.075	V
103-65-1	n-Propylbenzene	ND	2.7	0.39	ND	0.55	0.080	
622-96-8	4-Ethyltoluene	1.1	2.7	0.43	0.22	0.55	0.088	J
108-67-8	1,3,5-Trimethylbenzene	1.4	2.6	0.39	0.29	0.54	0.080	J
95-63-6	1,2,4-Trimethylbenzene	5.3	2.6	0.38	1.1	0.54	0.076	
100-44-7	Benzyl Chloride	ND	5.6	0.61	ND	1.1	0.12	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.41	ND	0.44	0.068	
106-46-7	1,4-Dichlorobenzene	0.85	2.6	0.42	0.14	0.44	0.069	J
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.40	ND	0.45	0.067	
5989-27-5	d-Limonene	4.6	2.5	0.56	0.82	0.46	0.10	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	0.51	ND	0.53	0.053	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.66	ND	0.75	0.089	
91-20-3	Naphthalene	2.3	2.6	0.66	0.44	0.50	0.13	J
87-68-3	Hexachlorobutadiene	ND	2.6	0.56	ND	0.25	0.052	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.12	0.53	0.087	0.023	0.11	0.018	J
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	0.15	0.54	0.074	0.038	0.14	0.019	J
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Method Blank
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 12/14/21
 Date(s) Received: 1/3/22
 Date(s) Analyzed: 1/4 - 1/5/22

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P220104-MB	113	89	100	70-130	
Method Blank	P220105-MB	110	92	105	70-130	
Lab Control Sample	P220104-LCS	112	87	101	70-130	
Lab Control Sample	P220105-LCS	108	89	104	70-130	
Duplicate Lab Control Sample	P220104-DLCS	112	87	100	70-130	
Duplicate Lab Control Sample	P220105-DLCS	107	89	104	70-130	
Pre Carbon	P2200013-001	107	91	107	70-130	
Pre Carbon 1	P2200013-002	108	92	108	70-130	
Post Carbon 2	P2200013-003	108	89	109	70-130	
SVE-EXT-01 @ manifold	P2200013-004	107	90	109	70-130	
SVE-EXT-02 @ manifold	P2200013-005	107	89	110	70-130	
SVE-EXT-03 @ manifold	P2200013-006	109	89	110	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits			
115-07-1	Propene	206	210	217	102	105	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	208	213	100	102	71-112	2	25	
74-87-3	Chloromethane	206	195	206	95	100	53-126	5	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	204	209	98	100	62-121	2	25	
75-01-4	Vinyl Chloride	208	220	226	106	109	63-123	3	25	
106-99-0	1,3-Butadiene	206	202	216	98	105	63-135	7	25	
74-83-9	Bromomethane	206	202	213	98	103	71-112	5	25	
75-00-3	Chloroethane	206	215	222	104	108	66-117	4	25	
64-17-5	Ethanol	832	839	884	101	106	57-117	5	25	
75-05-8	Acetonitrile	202	187	199	93	99	59-131	6	25	
107-02-8	Acrolein	416	420	446	101	107	71-123	6	25	
67-64-1	Acetone	1,020	997	1050	98	103	60-117	5	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	203	207	100	102	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	443	463	111	116	61-124	4	25	
107-13-1	Acrylonitrile	402	412	436	102	108	65-130	6	25	
75-35-4	1,1-Dichloroethene	210	207	215	99	102	74-114	3	25	
75-09-2	Methylene Chloride	208	198	208	95	100	75-112	5	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	196	208	96	102	57-127	6	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	200	208	93	96	73-114	3	25	
75-15-0	Carbon Disulfide	414	404	421	98	102	70-113	4	25	
156-60-5	trans-1,2-Dichloroethene	208	219	228	105	110	76-119	5	25	
75-34-3	1,1-Dichloroethane	214	215	224	100	105	70-114	5	25	
1634-04-4	Methyl tert-Butyl Ether	206	182	194	88	94	72-118	7	25	
108-05-4	Vinyl Acetate	942	994	1040	106	110	56-137	4	25	
78-93-3	2-Butanone (MEK)	408	409	429	100	105	74-121	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits			
156-59-2	cis-1,2-Dichloroethene	206	213	223	103	108	73-117	5	25	
141-78-6	Ethyl Acetate	580	550	571	95	98	59-161	3	25	
110-54-3	n-Hexane	208	205	214	99	103	55-130	4	25	
67-66-3	Chloroform	210	213	219	101	104	71-114	3	25	
109-99-9	Tetrahydrofuran (THF)	404	403	420	100	104	73-114	4	25	
107-06-2	1,2-Dichloroethane	210	220	225	105	107	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	208	208	210	100	101	73-119	1	25	
71-43-2	Benzene	208	188	192	90	92	72-113	2	25	
56-23-5	Carbon Tetrachloride	202	198	200	98	99	67-123	1	25	
110-82-7	Cyclohexane	412	379	388	92	94	70-119	2	25	
78-87-5	1,2-Dichloropropane	206	204	209	99	101	70-118	2	25	
75-27-4	Bromodichloromethane	208	214	217	103	104	74-119	1	25	
79-01-6	Trichloroethene	204	196	202	96	99	74-115	3	25	
123-91-1	1,4-Dioxane	206	201	206	98	100	77-124	2	25	
80-62-6	Methyl Methacrylate	410	420	427	102	104	78-126	2	25	
142-82-5	n-Heptane	206	204	208	99	101	70-119	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	214	218	103	105	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	422	438	102	106	73-129	4	25	
10061-02-6	trans-1,3-Dichloropropene	200	214	217	107	109	80-127	2	25	
79-00-5	1,1,2-Trichloroethane	208	208	212	100	102	78-117	2	25	
108-88-3	Toluene	206	168	173	82	84	70-118	2	25	
591-78-6	2-Hexanone	406	378	390	93	96	74-132	3	25	
124-48-1	Dibromochloromethane	210	176	179	84	85	69-137	1	25	
106-93-4	1,2-Dibromoethane	208	178	181	86	87	76-128	1	25	
123-86-4	n-Butyl Acetate	406	384	396	95	98	75-134	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220104-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/4/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits	Limit	Qualifier		
111-65-9	n-Octane	208	185	190	89	91	68-120	2	25		
127-18-4	Tetrachloroethene	212	170	172	80	81	63-130	1	25		
108-90-7	Chlorobenzene	206	170	174	83	84	70-118	1	25		
100-41-4	Ethylbenzene	206	176	180	85	87	71-123	2	25		
179601-23-1	m,p-Xylenes	416	352	362	85	87	67-127	2	25		
75-25-2	Bromoform	210	180	183	86	87	65-149	1	25		
100-42-5	Styrene	202	180	184	89	91	76-132	2	25		
95-47-6	o-Xylene	208	179	183	86	88	69-124	2	25		
111-84-2	n-Nonane	208	191	198	92	95	64-127	3	25		
79-34-5	1,1,2,2-Tetrachloroethane	208	181	186	87	89	69-128	2	25		
98-82-8	Cumene	206	170	174	83	84	69-125	1	25		
80-56-8	alpha-Pinene	210	273	280	130	133	68-129	2	25	L	
103-65-1	n-Propylbenzene	208	176	179	85	86	70-127	1	25		
622-96-8	4-Ethyltoluene	208	174	178	84	86	69-127	2	25		
108-67-8	1,3,5-Trimethylbenzene	208	181	184	87	88	66-129	1	25		
95-63-6	1,2,4-Trimethylbenzene	206	181	184	88	89	63-142	1	25		
100-44-7	Benzyl Chloride	416	399	412	96	99	73-145	3	25		
541-73-1	1,3-Dichlorobenzene	208	175	177	84	85	67-136	1	25		
106-46-7	1,4-Dichlorobenzene	210	175	179	83	85	63-134	2	25		
95-50-1	1,2-Dichlorobenzene	210	173	175	82	83	64-139	1	25		
5989-27-5	d-Limonene	206	203	207	99	100	63-137	1	25		
96-12-8	1,2-Dibromo-3-chloropropane	404	325	334	80	83	72-145	4	25		
120-82-1	1,2,4-Trichlorobenzene	420	361	375	86	89	62-154	3	25		
91-20-3	Naphthalene	210	191	200	91	95	62-156	4	25		
87-68-3	Hexachlorobutadiene	212	160	163	75	77	55-142	3	25		

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	219	222	106	108	56-128	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	204	204	98	98	71-112	0	25	
74-87-3	Chloromethane	206	207	205	100	100	53-126	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	202	205	97	99	62-121	2	25	
75-01-4	Vinyl Chloride	208	227	225	109	108	63-123	0.9	25	
106-99-0	1,3-Butadiene	206	219	226	106	110	63-135	4	25	
74-83-9	Bromomethane	206	214	217	104	105	71-112	1	25	
75-00-3	Chloroethane	206	223	225	108	109	66-117	0.9	25	
64-17-5	Ethanol	832	873	886	105	106	57-117	0.9	25	
75-05-8	Acetonitrile	202	200	203	99	100	59-131	1	25	
107-02-8	Acrolein	416	446	453	107	109	71-123	2	25	
67-64-1	Acetone	1,020	1040	1060	102	104	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	198	199	98	99	71-114	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	452	456	113	114	61-124	0.9	25	
107-13-1	Acrylonitrile	402	436	440	108	109	65-130	0.9	25	
75-35-4	1,1-Dichloroethene	210	210	215	100	102	74-114	2	25	
75-09-2	Methylene Chloride	208	204	208	98	100	75-112	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	204	204	100	100	57-127	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	199	204	92	94	73-114	2	25	
75-15-0	Carbon Disulfide	414	412	417	100	101	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	208	224	226	108	109	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	220	221	103	103	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	188	189	91	92	72-118	1	25	
108-05-4	Vinyl Acetate	942	1030	1040	109	110	56-137	0.9	25	
78-93-3	2-Butanone (MEK)	408	420	426	103	104	74-121	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits			
156-59-2	cis-1,2-Dichloroethene	206	218	220	106	107	73-117	0.9	25	
141-78-6	Ethyl Acetate	580	568	573	98	99	59-161	1	25	
110-54-3	n-Hexane	208	212	215	102	103	55-130	1	25	
67-66-3	Chloroform	210	211	213	100	101	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	416	418	103	103	73-114	0	25	
107-06-2	1,2-Dichloroethane	210	214	216	102	103	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	208	201	203	97	98	73-119	1	25	
71-43-2	Benzene	208	190	192	91	92	72-113	1	25	
56-23-5	Carbon Tetrachloride	202	190	192	94	95	67-123	1	25	
110-82-7	Cyclohexane	412	384	390	93	95	70-119	2	25	
78-87-5	1,2-Dichloropropane	206	208	210	101	102	70-118	1	25	
75-27-4	Bromodichloromethane	208	209	211	100	101	74-119	1	25	
79-01-6	Trichloroethene	204	196	200	96	98	74-115	2	25	
123-91-1	1,4-Dioxane	206	204	206	99	100	77-124	1	25	
80-62-6	Methyl Methacrylate	410	423	428	103	104	78-126	1	25	
142-82-5	n-Heptane	206	205	210	100	102	70-119	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	213	217	102	104	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	429	438	104	106	73-129	2	25	
10061-02-6	trans-1,3-Dichloropropene	200	212	215	106	108	80-127	2	25	
79-00-5	1,1,2-Trichloroethane	208	209	212	100	102	78-117	2	25	
108-88-3	Toluene	206	171	174	83	84	70-118	1	25	
591-78-6	2-Hexanone	406	387	395	95	97	74-132	2	25	
124-48-1	Dibromochloromethane	210	176	179	84	85	69-137	1	25	
106-93-4	1,2-Dibromoethane	208	178	181	86	87	76-128	1	25	
123-86-4	n-Butyl Acetate	406	392	401	97	99	75-134	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: SVE Performance Monitoring / KUH0-21-010

ALS Project ID: P2200013
 ALS Sample ID: P220105-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/5/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	189	196	91	94	68-120	3	25	
127-18-4	Tetrachloroethene	212	169	172	80	81	63-130	1	25	
108-90-7	Chlorobenzene	206	173	176	84	85	70-118	1	25	
100-41-4	Ethylbenzene	206	177	181	86	88	71-123	2	25	
179601-23-1	m,p-Xylenes	416	355	363	85	87	67-127	2	25	
75-25-2	Bromoform	210	176	180	84	86	65-149	2	25	
100-42-5	Styrene	202	183	186	91	92	76-132	1	25	
95-47-6	o-Xylene	208	180	184	87	88	69-124	1	25	
111-84-2	n-Nonane	208	197	201	95	97	64-127	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	184	188	88	90	69-128	2	25	
98-82-8	Cumene	206	172	175	83	85	69-125	2	25	
80-56-8	alpha-Pinene	210	282	286	134	136	68-129	1	25	L
103-65-1	n-Propylbenzene	208	177	179	85	86	70-127	1	25	
622-96-8	4-Ethyltoluene	208	174	178	84	86	69-127	2	25	
108-67-8	1,3,5-Trimethylbenzene	208	180	183	87	88	66-129	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	180	183	87	89	63-142	2	25	
100-44-7	Benzyl Chloride	416	399	411	96	99	73-145	3	25	
541-73-1	1,3-Dichlorobenzene	208	174	178	84	86	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	210	174	179	83	85	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	210	171	175	81	83	64-139	2	25	
5989-27-5	d-Limonene	206	204	209	99	101	63-137	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	324	333	80	82	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	420	362	372	86	89	62-154	3	25	
91-20-3	Naphthalene	210	194	203	92	97	62-156	5	25	
87-68-3	Hexachlorobutadiene	212	156	159	74	75	55-142	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.00780	0.02400	0.40000
enter avg flow rate in ACFM air	cubic ft/min	94.05	94.05	94.05
ave flow rate in cubic ft per day	ft3/day	135432	135432	135432
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi mol)/(R lbmol g)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	10420.4	10420.4	10420.4
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	359.32	359.32	359.32
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	2.80273E-06	8.62377E-06	0.00014373
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.0004	0.0008	0.0127
July 2021 Recovery		0.000	0.001	0.015

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.008	0.02	0.40
enter avg flow rate in ACFM air	cubic ft/min	290.95	290.95	290.95
ave flow rate in cubic ft per day	ft3/day	418974	418974	418974
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi)/(R lbm)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	32236.8	32236.8	32236.8
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	1111.61	1111.61	1111.61
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	8.67058E-06	2.66787E-05	0.000444645
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.001	0.003	0.039
August 2021 Recovery		0.023	0.052	0.782

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.005	0.02	0.38
enter avg flow rate in ACFM air	cubic ft/min	315.22	315.22	315.22
ave flow rate in cubic ft per day	ft3/day	453920	453920	453920
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi)/(R lbm)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	34925.6	34925.6	34925.6
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	1204.33	1204.33	1204.33
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	6.26252E-06	2.40866E-05	0.000457646
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.001	0.002	0.040
September 2021 Recovery		0.024	0.066	1.138

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.005	0.02	0.38
enter avg flow rate in ACFM air	cubic ft/min	315.22	315.22	315.22
ave flow rate in cubic ft per day	ft3/day	453920	453920	453920
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi)/(R lbm)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	34925.6	34925.6	34925.6
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	1204.33	1204.33	1204.33
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	6.26252E-06	2.40866E-05	0.000457646
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.001	0.002	0.040
October 2021 Recovery		0.019	0.053	0.917

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.005	0.023	0.34
enter avg flow rate in ACFM air	cubic ft/min	323.03	323.03	323.03
ave flow rate in cubic ft per day	ft3/day	465165	465165	465165
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi)/(R lbm)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	35790.8	35790.8	35790.8
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	1234.16	1234.16	1234.16
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	5.67716E-06	2.83858E-05	0.000419616
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.001	0.003	0.04
November 2021 Recovery		0.022	0.080	1.076

**Calculation of Mass Recovery Per Day and Per Month
SVE system
Kuhlman Electric Corporation
Crystal Springs, MS**

OPERATING PARAMETER	UNITS	1,1,1- Trichloroethane	1,1- Dichloroethene	1,4-Dioxane
Constituent concentration	ppmv	0.005	0.023	0.34
enter avg flow rate in ACFM air	cubic ft/min	309.70	309.70	309.70
ave flow rate in cubic ft per day	ft3/day	445975	445975	445975
enter avg vapor temperature	degrees F	70	70	70
enter nominal pressure in psig	lb/in2	0.38	0.38	0.38
temp in degrees rankin	degrees R	529.67	529.67	529.67
Ru = universal gas constant	psi ft3/(lbmol deg R)	10.73	10.73	10.73
R = specific gas constant air (R=Ru/mw)	(ft3 psi)/(R lbm)	0.37	0.37	0.37
molecular weight of air	lbm/lbmol	29	29	29
molecular weight of constituent	lbm/lbmol	133.4	96.94	88.11
density of air = P/(RT)= (psi R lbm)/(ft3 psi R) =lbm/ft3	lbm/ft3	0.0769	0.0769	0.0769
mass of air recovered per day= flow (ft3/day)*density (lb/ft3)	lbm/day	34314.3	34314.3	34314.3
moles of air recovered per day = mass air/day (lb/day) / mw (lbm/lbmol)	lbmol/ day	1183.25	1183.25	1183.25
moles of constituent recovered per day = ppmv/(10 ⁶)* (lb mol/ day)	lbmol/day	5.44296E-06	2.72148E-05	0.000402305
mass of constituent recovered per day = (lbmol/day) * lbm/lbmol = lb/day	lbm/day	0.0007	0.0026	0.0354
December 2021 Recovery		0.0209	0.0760	1.0205

APPENDIX C

AMBIENT AIR SAMPLING LABORATORY ANALYTICAL RESULTS



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

November 13, 2021

Collin Creel
Environmental Management Services, Inc.
PO Box 15369
Hattiesburg, MS 39402

RE: In-Plant Monitoring / KUH0-21-011

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on October 25, 2021. For your reference, these analyses have been assigned our service request number P2105625.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 9:53 am, Nov 13, 2021

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Environmental Management Services, Inc.
Project: In-Plant Monitoring / KUH0-21-011

Service Request No: P2105625

CASE NARRATIVE

The samples were received intact under chain of custody on October 25, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The samples were received with limited hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory and the data flagged to indicate the holding time exceedance.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
Project ID: In-Plant Monitoring / KUH0-21-011

Service Request: P2105625

Date Received: 10/25/2021
Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
Location 1	P2105625-001	Air	9/30/2021	08:03	1SC01047	-2.85	6.82	X
Location 2	P2105625-002	Air	9/30/2021	08:03	1SS00787	-2.96	7.39	X
Location 3	P2105625-003	Air	9/30/2021	08:04	1SS00088	-4.34	7.08	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes: **H1**

Container ID: 1SC01047

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.82

Canister Dilution Factor: 1.82

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	1,500	24	5.9	880	14	3.4	D
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.4	0.40	0.43	0.49	0.080	J
74-87-3	Chloromethane	1.1	2.3	0.39	0.55	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.38	ND	0.35	0.055	
75-01-4	Vinyl Chloride	ND	2.4	0.26	ND	0.93	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.40	ND	1.1	0.18	
74-83-9	Bromomethane	ND	2.3	0.34	ND	0.60	0.087	
75-00-3	Chloroethane	0.39	2.3	0.30	0.15	0.88	0.11	J
64-17-5	Ethanol	960	23	1.7	510	12	0.89	
75-05-8	Acetonitrile	0.87	4.6	0.59	0.52	2.7	0.35	J
107-02-8	Acrolein	1.7	4.6	0.68	0.74	2.0	0.30	J
67-64-1	Acetone	250	24	5.5	100	10	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	2.4	0.37	0.19	0.42	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	42	4.6	1.0	17	1.9	0.41	
107-13-1	Acrylonitrile	1.3	4.6	0.50	0.59	2.1	0.23	J
75-35-4	1,1-Dichloroethene	ND	2.5	0.34	ND	0.62	0.085	
75-09-2	Methylene Chloride	ND	2.4	0.68	ND	0.68	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.4	0.33	ND	0.77	0.10	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.45	2.5	0.35	0.058	0.32	0.045	J
75-15-0	Carbon Disulfide	3.1	5.0	0.73	0.99	1.6	0.23	J
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.34	ND	0.61	0.085	
75-34-3	1,1-Dichloroethane	ND	2.4	0.35	ND	0.60	0.088	
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	0.29	ND	0.67	0.080	
108-05-4	Vinyl Acetate	6.8	23	5.5	1.9	6.5	1.6	J
78-93-3	2-Butanone (MEK)	34	4.6	0.50	11	1.5	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes: **H1**

Container ID: 1SC01047

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.82

Canister Dilution Factor: 1.82

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.34	ND	0.60	0.086	
141-78-6	Ethyl Acetate	9.3	9.6	1.3	2.6	2.7	0.35	J
110-54-3	n-Hexane	2.3	2.4	0.50	0.66	0.68	0.14	J
67-66-3	Chloroform	ND	2.5	0.32	ND	0.50	0.066	
109-99-9	Tetrahydrofuran (THF)	0.66	4.6	0.30	0.22	1.5	0.10	J
107-06-2	1,2-Dichloroethane	ND	2.4	0.27	ND	0.60	0.066	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.30	ND	0.43	0.055	
71-43-2	Benzene	0.64	2.3	0.35	0.20	0.71	0.11	J
56-23-5	Carbon Tetrachloride	0.39	2.3	0.34	0.062	0.36	0.054	J
110-82-7	Cyclohexane	ND	5.0	0.68	ND	1.5	0.20	
78-87-5	1,2-Dichloropropane	ND	2.3	0.30	ND	0.49	0.065	
75-27-4	Bromodichloromethane	ND	2.4	0.35	ND	0.36	0.052	
79-01-6	Trichloroethene	ND	2.4	0.33	ND	0.44	0.061	
123-91-1	1,4-Dioxane	0.83	2.4	0.29	0.23	0.66	0.080	J
80-62-6	Methyl Methacrylate	ND	5.0	0.86	ND	1.2	0.21	
142-82-5	n-Heptane	2.0	2.4	0.39	0.49	0.59	0.094	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.38	ND	0.50	0.083	
108-10-1	4-Methyl-2-pentanone	9.4	5.0	0.33	2.3	1.2	0.081	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.50	ND	0.51	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.25	ND	0.43	0.045	
108-88-3	Toluene	34	2.4	0.30	8.9	0.63	0.079	
591-78-6	2-Hexanone	0.84	5.0	0.30	0.20	1.2	0.073	J
124-48-1	Dibromochloromethane	ND	2.4	0.32	ND	0.28	0.037	
106-93-4	1,2-Dibromoethane	ND	2.4	0.28	ND	0.31	0.037	
123-86-4	n-Butyl Acetate	7.4	5.0	0.33	1.6	1.1	0.070	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes: **H1**

Container ID: 1SC01047

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4 - 11/5/21

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.82

Canister Dilution Factor: 1.82

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.57	2.4	0.55	0.12	0.52	0.12	J
127-18-4	Tetrachloroethene	5.3	2.4	0.31	0.78	0.35	0.046	
108-90-7	Chlorobenzene	ND	2.4	0.32	ND	0.51	0.070	
100-41-4	Ethylbenzene	20	2.4	0.34	4.6	0.54	0.079	
179601-23-1	m,p-Xylenes	79	5.0	0.64	18	1.2	0.15	
75-25-2	Bromoform	ND	2.4	0.50	ND	0.23	0.048	
100-42-5	Styrene	1.7	2.3	0.39	0.40	0.53	0.092	J
95-47-6	o-Xylene	25	2.4	0.35	5.8	0.54	0.081	
111-84-2	n-Nonane	0.97	2.4	0.40	0.19	0.45	0.077	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.34	ND	0.34	0.049	
98-82-8	Cumene	0.86	2.4	0.35	0.17	0.48	0.071	J
80-56-8	alpha-Pinene	11	2.5	0.37	1.9	0.44	0.067	
103-65-1	n-Propylbenzene	3.2	2.4	0.35	0.65	0.49	0.071	
622-96-8	4-Ethyltoluene	4.2	2.4	0.39	0.86	0.49	0.079	
108-67-8	1,3,5-Trimethylbenzene	4.9	2.4	0.35	1.0	0.48	0.071	
95-63-6	1,2,4-Trimethylbenzene	17	2.4	0.34	3.5	0.48	0.069	
100-44-7	Benzyl Chloride	ND	5.0	0.55	ND	0.97	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.36	ND	0.39	0.061	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.37	ND	0.39	0.062	
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.36	ND	0.40	0.060	
5989-27-5	d-Limonene	10	2.3	0.50	1.8	0.41	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	0.46	ND	0.47	0.047	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.59	ND	0.67	0.080	
91-20-3	Naphthalene	1.7	2.4	0.59	0.33	0.45	0.11	J
87-68-3	Hexachlorobutadiene	ND	2.4	0.50	ND	0.22	0.047	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Location 2
Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625
 ALS Sample ID: P2105625-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H1**
 Container ID: 1SS00787

Date Collected: 9/30/21
 Date Received: 10/25/21
 Date Analyzed: 11/4/21
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.39

Canister Dilution Factor: 1.88

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	140	2.4	0.61	83	1.4	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.5	0.41	0.42	0.50	0.083	J
74-87-3	Chloromethane	1.0	2.4	0.40	0.49	1.2	0.20	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.39	ND	0.36	0.057	
75-01-4	Vinyl Chloride	ND	2.4	0.27	ND	0.96	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.41	ND	1.1	0.19	
74-83-9	Bromomethane	ND	2.4	0.35	ND	0.62	0.090	
75-00-3	Chloroethane	ND	2.4	0.31	ND	0.91	0.12	
64-17-5	Ethanol	440	24	1.7	230	12	0.92	
75-05-8	Acetonitrile	ND	4.7	0.61	ND	2.8	0.36	
107-02-8	Acrolein	0.75	4.7	0.71	0.33	2.1	0.31	J
67-64-1	Acetone	510	24	5.6	220	10	2.4	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.4	0.38	0.18	0.44	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	51	4.7	1.0	21	1.9	0.42	
107-13-1	Acrylonitrile	ND	4.7	0.52	ND	2.2	0.24	
75-35-4	1,1-Dichloroethene	ND	2.5	0.35	ND	0.64	0.088	
75-09-2	Methylene Chloride	ND	2.4	0.71	ND	0.70	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.5	0.34	ND	0.80	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.44	2.5	0.36	0.057	0.33	0.047	J
75-15-0	Carbon Disulfide	1.1	5.2	0.75	0.35	1.7	0.24	J
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.35	ND	0.63	0.088	
75-34-3	1,1-Dichloroethane	ND	2.5	0.37	ND	0.62	0.091	
1634-04-4	Methyl tert-Butyl Ether	ND	2.5	0.30	ND	0.69	0.082	
108-05-4	Vinyl Acetate	ND	24	5.6	ND	6.7	1.6	
78-93-3	2-Butanone (MEK)	34	4.7	0.52	12	1.6	0.18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 2

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00787

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.39

Canister Dilution Factor: 1.88

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.35	ND	0.62	0.089	
141-78-6	Ethyl Acetate	4.4	9.9	1.3	1.2	2.7	0.37	J
110-54-3	n-Hexane	2.4	2.5	0.52	0.67	0.71	0.15	J
67-66-3	Chloroform	ND	2.5	0.33	ND	0.52	0.068	
109-99-9	Tetrahydrofuran (THF)	0.86	4.7	0.31	0.29	1.6	0.11	J
107-06-2	1,2-Dichloroethane	ND	2.5	0.28	ND	0.62	0.069	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.31	ND	0.45	0.057	
71-43-2	Benzene	1.6	2.4	0.36	0.51	0.74	0.11	J
56-23-5	Carbon Tetrachloride	0.42	2.4	0.35	0.067	0.37	0.055	J
110-82-7	Cyclohexane	2.1	5.2	0.71	0.61	1.5	0.20	J
78-87-5	1,2-Dichloropropane	ND	2.4	0.31	ND	0.51	0.067	
75-27-4	Bromodichloromethane	ND	2.5	0.36	ND	0.37	0.054	
79-01-6	Trichloroethene	ND	2.4	0.34	ND	0.45	0.063	
123-91-1	1,4-Dioxane	ND	2.4	0.30	ND	0.68	0.082	
80-62-6	Methyl Methacrylate	ND	5.2	0.89	ND	1.3	0.22	
142-82-5	n-Heptane	4.3	2.5	0.40	1.0	0.61	0.098	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.39	ND	0.52	0.086	
108-10-1	4-Methyl-2-pentanone	7.0	5.2	0.34	1.7	1.3	0.084	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.52	ND	0.53	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.25	ND	0.45	0.047	
108-88-3	Toluene	31	2.4	0.31	8.3	0.65	0.081	
591-78-6	2-Hexanone	ND	5.2	0.31	ND	1.3	0.076	
124-48-1	Dibromochloromethane	ND	2.5	0.33	ND	0.29	0.039	
106-93-4	1,2-Dibromoethane	ND	2.4	0.29	ND	0.32	0.038	
123-86-4	n-Butyl Acetate	20	5.2	0.34	4.2	1.1	0.072	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 2

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00787

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.39

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	3.1	2.5	0.56	0.66	0.53	0.12	
127-18-4	Tetrachloroethene	0.40	2.4	0.32	0.060	0.36	0.048	J
108-90-7	Chlorobenzene	ND	2.4	0.33	ND	0.53	0.072	
100-41-4	Ethylbenzene	35	2.4	0.35	8.2	0.56	0.081	
179601-23-1	m,p-Xylenes	160	5.2	0.66	36	1.2	0.15	
75-25-2	Bromoform	ND	2.4	0.52	ND	0.24	0.050	
100-42-5	Styrene	1.5	2.4	0.40	0.36	0.55	0.095	J
95-47-6	o-Xylene	47	2.4	0.36	11	0.56	0.083	
111-84-2	n-Nonane	2.1	2.4	0.42	0.40	0.47	0.080	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.35	ND	0.36	0.051	
98-82-8	Cumene	1.2	2.4	0.36	0.25	0.50	0.074	J
80-56-8	alpha-Pinene	5.2	2.5	0.39	0.94	0.46	0.069	
103-65-1	n-Propylbenzene	4.1	2.5	0.36	0.83	0.51	0.074	
622-96-8	4-Ethyltoluene	5.5	2.5	0.40	1.1	0.51	0.081	
108-67-8	1,3,5-Trimethylbenzene	6.8	2.4	0.36	1.4	0.50	0.074	
95-63-6	1,2,4-Trimethylbenzene	23	2.4	0.35	4.7	0.50	0.071	
100-44-7	Benzyl Chloride	ND	5.2	0.56	ND	1.0	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.38	ND	0.41	0.063	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.39	ND	0.41	0.064	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.37	ND	0.41	0.062	
5989-27-5	d-Limonene	3.0	2.4	0.52	0.54	0.42	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	0.47	ND	0.49	0.049	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.61	ND	0.70	0.082	
91-20-3	Naphthalene	3.9	2.4	0.61	0.74	0.47	0.12	
87-68-3	Hexachlorobutadiene	ND	2.4	0.52	ND	0.23	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00088

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.34 Final Pressure (psig): 7.08

Canister Dilution Factor: 2.10

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	4.9	2.7	0.68	2.9	1.6	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.8	0.46	0.44	0.56	0.092	J
74-87-3	Chloromethane	1.2	2.7	0.45	0.56	1.3	0.22	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.8	0.44	ND	0.41	0.063	
75-01-4	Vinyl Chloride	ND	2.7	0.30	ND	1.1	0.12	
106-99-0	1,3-Butadiene	ND	2.7	0.46	ND	1.2	0.21	
74-83-9	Bromomethane	ND	2.7	0.39	ND	0.69	0.10	
75-00-3	Chloroethane	ND	2.7	0.35	ND	1.0	0.13	
64-17-5	Ethanol	55	26	1.9	29	14	1.0	
75-05-8	Acetonitrile	ND	5.3	0.68	ND	3.1	0.41	
107-02-8	Acrolein	1.5	5.3	0.79	0.64	2.3	0.34	J
67-64-1	Acetone	25	27	6.3	11	11	2.7	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	2.7	0.43	0.18	0.49	0.076	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.6	5.3	1.2	1.9	2.1	0.47	J
107-13-1	Acrylonitrile	ND	5.3	0.58	ND	2.4	0.27	
75-35-4	1,1-Dichloroethene	ND	2.8	0.39	ND	0.72	0.098	
75-09-2	Methylene Chloride	ND	2.7	0.79	ND	0.79	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.8	0.38	ND	0.89	0.12	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.40	2.8	0.40	0.052	0.37	0.052	J
75-15-0	Carbon Disulfide	14	5.8	0.84	4.5	1.9	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.39	ND	0.70	0.098	
75-34-3	1,1-Dichloroethane	ND	2.8	0.41	ND	0.69	0.10	
1634-04-4	Methyl tert-Butyl Ether	ND	2.8	0.33	ND	0.77	0.092	
108-05-4	Vinyl Acetate	7.9	26	6.3	2.2	7.5	1.8	J
78-93-3	2-Butanone (MEK)	4.4	5.3	0.58	1.5	1.8	0.20	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00088

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.34 Final Pressure (psig): 7.08

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.39	ND	0.69	0.099	
141-78-6	Ethyl Acetate	1.8	11	1.5	0.51	3.1	0.41	J
110-54-3	n-Hexane	ND	2.8	0.58	ND	0.79	0.16	
67-66-3	Chloroform	ND	2.8	0.37	ND	0.58	0.076	
109-99-9	Tetrahydrofuran (THF)	0.93	5.3	0.35	0.32	1.8	0.12	J
107-06-2	1,2-Dichloroethane	ND	2.8	0.31	ND	0.69	0.077	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.35	ND	0.50	0.064	
71-43-2	Benzene	ND	2.6	0.40	ND	0.82	0.13	
56-23-5	Carbon Tetrachloride	0.41	2.6	0.39	0.066	0.42	0.062	J
110-82-7	Cyclohexane	ND	5.8	0.79	ND	1.7	0.23	
78-87-5	1,2-Dichloropropane	ND	2.6	0.35	ND	0.57	0.075	
75-27-4	Bromodichloromethane	ND	2.8	0.40	ND	0.42	0.060	
79-01-6	Trichloroethene	ND	2.7	0.38	ND	0.51	0.070	
123-91-1	1,4-Dioxane	0.41	2.7	0.33	0.12	0.76	0.092	J
80-62-6	Methyl Methacrylate	ND	5.8	1.0	ND	1.4	0.24	
142-82-5	n-Heptane	ND	2.8	0.45	ND	0.68	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.44	ND	0.58	0.096	
108-10-1	4-Methyl-2-pentanone	0.47	5.8	0.38	0.11	1.4	0.094	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.58	ND	0.59	0.13	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.28	ND	0.50	0.052	
108-88-3	Toluene	1.6	2.7	0.34	0.42	0.72	0.091	J
591-78-6	2-Hexanone	ND	5.8	0.35	ND	1.4	0.085	
124-48-1	Dibromochloromethane	ND	2.8	0.37	ND	0.33	0.043	
106-93-4	1,2-Dibromoethane	ND	2.7	0.33	ND	0.36	0.042	
123-86-4	n-Butyl Acetate	0.95	5.8	0.38	0.20	1.2	0.081	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105625-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H1**

Container ID: 1SS00088

Date Collected: 9/30/21

Date Received: 10/25/21

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.34 Final Pressure (psig): 7.08

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	2.8	0.63	ND	0.60	0.13	
127-18-4	Tetrachloroethene	ND	2.7	0.36	ND	0.40	0.053	
108-90-7	Chlorobenzene	ND	2.7	0.37	ND	0.59	0.081	
100-41-4	Ethylbenzene	0.77	2.7	0.39	0.18	0.63	0.091	J
179601-23-1	m,p-Xylenes	2.3	5.8	0.74	0.53	1.3	0.17	J
75-25-2	Bromoform	ND	2.7	0.58	ND	0.26	0.056	
100-42-5	Styrene	0.86	2.6	0.45	0.20	0.62	0.11	J
95-47-6	o-Xylene	0.77	2.7	0.40	0.18	0.63	0.093	J
111-84-2	n-Nonane	ND	2.7	0.47	ND	0.52	0.089	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.39	ND	0.40	0.057	
98-82-8	Cumene	ND	2.7	0.40	ND	0.56	0.082	
80-56-8	alpha-Pinene	6.7	2.8	0.43	1.2	0.51	0.077	
103-65-1	n-Propylbenzene	ND	2.8	0.40	ND	0.57	0.082	
622-96-8	4-Ethyltoluene	ND	2.8	0.45	ND	0.57	0.091	
108-67-8	1,3,5-Trimethylbenzene	ND	2.7	0.40	ND	0.56	0.082	
95-63-6	1,2,4-Trimethylbenzene	0.88	2.7	0.39	0.18	0.56	0.079	J
100-44-7	Benzyl Chloride	ND	5.8	0.63	ND	1.1	0.12	
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.42	ND	0.45	0.070	
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.43	ND	0.45	0.072	
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.41	ND	0.46	0.069	
5989-27-5	d-Limonene	5.0	2.6	0.58	0.89	0.47	0.10	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	0.53	ND	0.54	0.054	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.68	ND	0.78	0.092	
91-20-3	Naphthalene	ND	2.7	0.68	ND	0.52	0.13	
87-68-3	Hexachlorobutadiene	ND	2.7	0.58	ND	0.26	0.054	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/5/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/5/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	0.071	1.0	0.067	0.024	0.34	0.023	J
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/5/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s) / 6.0 L Silonite Canister(s)
 Test Notes:

Date(s) Collected: 9/30 - 11/1/21
 Date(s) Received: 10/25 - 11/1/21
 Date(s) Analyzed: 11/4 - 11/5/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211104-MB	85	96	98	70-130	
Method Blank	P211105-MB	88	95	93	70-130	
Lab Control Sample	P211104-LCS	91	96	99	70-130	
Lab Control Sample	P211105-LCS	94	90	90	70-130	
Duplicate Lab Control Sample	P211104-DLCS	90	95	99	70-130	
Location 1	P2105625-001	91	94	100	70-130	
Location 2	P2105625-002	89	96	99	70-130	
Location 3	P2105625-003	92	94	99	70-130	
Batch QC	P2105750-004DUP	88	94	89	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	195	194	95	94	56-128	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	183	185	88	89	71-112	1	25	
74-87-3	Chloromethane	206	235	235	114	114	53-126	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	206	209	99	100	62-121	1	25	
75-01-4	Vinyl Chloride	208	240	244	115	117	63-123	2	25	
106-99-0	1,3-Butadiene	206	217	218	105	106	63-135	0.9	25	
74-83-9	Bromomethane	206	198	201	96	98	71-112	2	25	
75-00-3	Chloroethane	206	186	187	90	91	66-117	1	25	
64-17-5	Ethanol	832	851	856	102	103	57-117	1	25	
75-05-8	Acetonitrile	202	181	182	90	90	59-131	0	25	
107-02-8	Acrolein	416	410	416	99	100	71-123	1	25	
67-64-1	Acetone	1,020	983	997	96	98	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	178	179	88	89	71-114	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	427	432	107	108	61-124	0.9	25	
107-13-1	Acrylonitrile	402	381	385	95	96	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	202	203	96	97	74-114	1	25	
75-09-2	Methylene Chloride	208	192	194	92	93	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	206	209	101	102	57-127	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	203	204	94	94	73-114	0	25	
75-15-0	Carbon Disulfide	414	356	361	86	87	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	208	198	199	95	96	76-119	1	25	
75-34-3	1,1-Dichloroethane	214	192	193	90	90	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	201	204	98	99	72-118	1	25	
108-05-4	Vinyl Acetate	942	1050	1070	111	114	56-137	3	25	
78-93-3	2-Butanone (MEK)	408	406	413	100	101	74-121	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD Limit		
156-59-2	cis-1,2-Dichloroethene	206	194	197	94	96	73-117	2	25	
141-78-6	Ethyl Acetate	580	619	630	107	109	59-161	2	25	
110-54-3	n-Hexane	208	215	218	103	105	55-130	2	25	
67-66-3	Chloroform	210	195	198	93	94	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	380	386	94	96	73-114	2	25	
107-06-2	1,2-Dichloroethane	210	190	192	90	91	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	208	185	189	89	91	73-119	2	25	
71-43-2	Benzene	208	201	204	97	98	72-113	1	25	
56-23-5	Carbon Tetrachloride	202	183	187	91	93	67-123	2	25	
110-82-7	Cyclohexane	412	436	443	106	108	70-119	2	25	
78-87-5	1,2-Dichloropropane	206	199	203	97	99	70-118	2	25	
75-27-4	Bromodichloromethane	208	201	203	97	98	74-119	1	25	
79-01-6	Trichloroethene	204	206	211	101	103	74-115	2	25	
123-91-1	1,4-Dioxane	206	200	205	97	100	77-124	3	25	
80-62-6	Methyl Methacrylate	410	430	437	105	107	78-126	2	25	
142-82-5	n-Heptane	206	213	217	103	105	70-119	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	214	218	103	105	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	421	431	102	105	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	200	205	208	103	104	80-127	1	25	
79-00-5	1,1,2-Trichloroethane	208	198	202	95	97	78-117	2	25	
108-88-3	Toluene	206	192	195	93	95	70-118	2	25	
591-78-6	2-Hexanone	406	414	424	102	104	74-132	2	25	
124-48-1	Dibromochloromethane	210	196	200	93	95	69-137	2	25	
106-93-4	1,2-Dibromoethane	208	197	201	95	97	76-128	2	25	
123-86-4	n-Butyl Acetate	406	419	429	103	106	75-134	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211104-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/4/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD Limit		
111-65-9	n-Octane	208	200	204	96	98	68-120	2	25	
127-18-4	Tetrachloroethene	212	200	202	94	95	63-130	1	25	
108-90-7	Chlorobenzene	206	193	196	94	95	70-118	1	25	
100-41-4	Ethylbenzene	206	196	200	95	97	71-123	2	25	
179601-23-1	m,p-Xylenes	416	394	401	95	96	67-127	1	25	
75-25-2	Bromoform	210	210	215	100	102	65-149	2	25	
100-42-5	Styrene	202	205	209	101	103	76-132	2	25	
95-47-6	o-Xylene	208	197	200	95	96	69-124	1	25	
111-84-2	n-Nonane	208	227	230	109	111	64-127	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	210	215	101	103	69-128	2	25	
98-82-8	Cumene	206	196	200	95	97	69-125	2	25	
80-56-8	alpha-Pinene	210	211	215	100	102	68-129	2	25	
103-65-1	n-Propylbenzene	208	199	202	96	97	70-127	1	25	
622-96-8	4-Ethyltoluene	208	202	207	97	100	69-127	3	25	
108-67-8	1,3,5-Trimethylbenzene	208	200	204	96	98	66-129	2	25	
95-63-6	1,2,4-Trimethylbenzene	206	207	211	100	102	63-142	2	25	
100-44-7	Benzyl Chloride	416	431	439	104	106	73-145	2	25	
541-73-1	1,3-Dichlorobenzene	208	202	208	97	100	67-136	3	25	
106-46-7	1,4-Dichlorobenzene	210	199	204	95	97	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	210	201	207	96	99	64-139	3	25	
5989-27-5	d-Limonene	206	223	228	108	111	63-137	3	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	393	404	97	100	72-145	3	25	
120-82-1	1,2,4-Trichlorobenzene	420	382	397	91	95	62-154	4	25	
91-20-3	Naphthalene	210	177	186	84	89	62-156	6	25	
87-68-3	Hexachlorobutadiene	212	159	164	75	77	55-142	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	206	197	96	56-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	178	86	71-112	
74-87-3	Chloromethane	206	205	100	53-126	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	200	96	62-121	
75-01-4	Vinyl Chloride	208	245	118	63-123	
106-99-0	1,3-Butadiene	206	214	104	63-135	
74-83-9	Bromomethane	206	189	92	71-112	
75-00-3	Chloroethane	206	179	87	66-117	
64-17-5	Ethanol	832	871	105	57-117	
75-05-8	Acetonitrile	202	186	92	59-131	
107-02-8	Acrolein	416	416	100	71-123	
67-64-1	Acetone	1,020	1020	100	60-117	
75-69-4	Trichlorofluoromethane (CFC 11)	202	177	88	71-114	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	434	109	61-124	
107-13-1	Acrylonitrile	402	393	98	65-130	
75-35-4	1,1-Dichloroethene	210	201	96	74-114	
75-09-2	Methylene Chloride	208	194	93	75-112	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	215	105	57-127	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	191	88	73-114	
75-15-0	Carbon Disulfide	414	368	89	70-113	
156-60-5	trans-1,2-Dichloroethene	208	201	97	76-119	
75-34-3	1,1-Dichloroethane	214	195	91	70-114	
1634-04-4	Methyl tert-Butyl Ether	206	170	83	72-118	
108-05-4	Vinyl Acetate	942	1070	114	56-137	
78-93-3	2-Butanone (MEK)	408	416	102	74-121	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	206	199	97	73-117	
141-78-6	Ethyl Acetate	580	664	114	59-161	
110-54-3	n-Hexane	208	230	111	55-130	
67-66-3	Chloroform	210	199	95	71-114	
109-99-9	Tetrahydrofuran (THF)	404	393	97	73-114	
107-06-2	1,2-Dichloroethane	210	198	94	71-119	
71-55-6	1,1,1-Trichloroethane	208	189	91	73-119	
71-43-2	Benzene	208	209	100	72-113	
56-23-5	Carbon Tetrachloride	202	186	92	67-123	
110-82-7	Cyclohexane	412	444	108	70-119	
78-87-5	1,2-Dichloropropane	206	209	101	70-118	
75-27-4	Bromodichloromethane	208	209	100	74-119	
79-01-6	Trichloroethene	204	208	102	74-115	
123-91-1	1,4-Dioxane	206	207	100	77-124	
80-62-6	Methyl Methacrylate	410	435	106	78-126	
142-82-5	n-Heptane	206	223	108	70-119	
10061-01-5	cis-1,3-Dichloropropene	208	226	109	81-126	
108-10-1	4-Methyl-2-pentanone	412	452	110	73-129	
10061-02-6	trans-1,3-Dichloropropene	200	215	108	80-127	
79-00-5	1,1,2-Trichloroethane	208	206	99	78-117	
108-88-3	Toluene	206	182	88	70-118	
591-78-6	2-Hexanone	406	418	103	74-132	
124-48-1	Dibromochloromethane	210	185	88	69-137	
106-93-4	1,2-Dibromoethane	208	186	89	76-128	
123-86-4	n-Butyl Acetate	406	424	104	75-134	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P211105-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	208	196	94	68-120	
127-18-4	Tetrachloroethene	212	177	83	63-130	
108-90-7	Chlorobenzene	206	182	88	70-118	
100-41-4	Ethylbenzene	206	188	91	71-123	
179601-23-1	m,p-Xylenes	416	382	92	67-127	
75-25-2	Bromoform	210	192	91	65-149	
100-42-5	Styrene	202	196	97	76-132	
95-47-6	o-Xylene	208	191	92	69-124	
111-84-2	n-Nonane	208	230	111	64-127	
79-34-5	1,1,2,2-Tetrachloroethane	208	208	100	69-128	
98-82-8	Cumene	206	189	92	69-125	
80-56-8	alpha-Pinene	210	205	98	68-129	
103-65-1	n-Propylbenzene	208	196	94	70-127	
622-96-8	4-Ethyltoluene	208	198	95	69-127	
108-67-8	1,3,5-Trimethylbenzene	208	196	94	66-129	
95-63-6	1,2,4-Trimethylbenzene	206	206	100	63-142	
100-44-7	Benzyl Chloride	416	434	104	73-145	
541-73-1	1,3-Dichlorobenzene	208	195	94	67-136	
106-46-7	1,4-Dichlorobenzene	210	190	90	63-134	
95-50-1	1,2-Dichlorobenzene	210	196	93	64-139	
5989-27-5	d-Limonene	206	228	111	63-137	
96-12-8	1,2-Dibromo-3-chloropropane	404	379	94	72-145	
120-82-1	1,2,4-Trichlorobenzene	420	369	88	62-154	
91-20-3	Naphthalene	210	175	83	62-156	
87-68-3	Hexachlorobutadiene	212	154	73	55-142	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Batch QC

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105750-004DUP

Test Code: EPA TO-15

Date Collected: 11/1/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/1/21

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: GEO00170

Initial Pressure (psig): -1.69

Final Pressure (psig): 4.00

Canister Dilution Factor: 1.44

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	0.451	0.262	0.403	0.234	0.427	11	25	J
Dichlorodifluoromethane (CFC 12)	2.07	0.420	2.02	0.410	2.045	2	25	
Chloromethane	0.432	0.209	0.367	0.178	0.3995	16	25	J
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	4.29	2.28	4.33	2.30	4.31	0.9	25	J
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	5.13	2.16	5.15	2.17	5.14	0.4	25	J
Trichlorofluoromethane	1.11	0.198	1.13	0.200	1.12	2	25	
2-Propanol (Isopropyl Alcohol)	0.841	0.342	0.841	0.342	0.841	0	25	J
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.301	0.0867	0.312	0.0900	0.3065	4	25	J
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.510	0.0665	0.475	0.0620	0.4925	7	25	J
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.379	0.128	0.341	0.116	0.36	11	25	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Batch QC

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105750-004DUP

Test Code: EPA TO-15

Date Collected: 11/1/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/1/21

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: GEO00170

Initial Pressure (psig): -1.69

Final Pressure (psig): 4.00

Canister Dilution Factor: 1.44

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	5.98	1.66	6.14	1.70	6.06	3	25	
n-Hexane	0.210	0.0597	0.219	0.0621	0.2145	4	25	J
Chloroform	0.228	0.0466	0.233	0.0478	0.2305	2	25	J
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.328	0.103	0.327	0.102	0.3275	0.3	25	J
Carbon Tetrachloride	0.416	0.0662	0.396	0.0630	0.406	5	25	J
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	0.127	0.0309	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	0.703	0.187	0.696	0.185	0.6995	1	25	J
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Batch QC

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2105625

ALS Sample ID: P2105750-004DUP

Test Code: EPA TO-15

Date Collected: 11/1/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/1/21

Analyst: Jessie Macaluso

Date Analyzed: 11/5/21

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: GEO00170

Initial Pressure (psig): -1.69

Final Pressure (psig): 4.00

Canister Dilution Factor: 1.44

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.120	0.0275	0.120	0.0275	0.12	0	25	J
m,p-Xylenes	0.366	0.0842	0.369	0.0849	0.3675	0.8	25	J
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.137	0.0315	0.141	0.0325	0.139	3	25	J
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	0.143	0.0256	0.145	0.0261	0.144	1	25	J
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	0.115	0.0234	0.114	0.0231	0.1145	0.9	25	J
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	0.204	0.0367	0.184	0.0331	0.194	10	25	J
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

January 14, 2022

Collin Creel
Environmental Management Services, Inc.
PO Box 15369
Hattiesburg, MS 39402

RE: In-Plant Monitoring / KUH0-21-011

Dear Collin:

Enclosed are the results of the samples submitted to our laboratory on January 3, 2022. For your reference, these analyses have been assigned our service request number P2200015.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



Sue Anderson
By Sue Anderson at 3:35 pm, Jan 14, 2022

Sue Anderson
Project Manager



Client: Environmental Management Services, Inc.
Project: In-Plant Monitoring / KUH0-21-011

Service Request No: P2200015

CASE NARRATIVE

The samples were received intact under chain of custody on January 3, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for alpha-pinene in the Continuing Calibration Verification (CCV) and Laboratory Control Samples (LCS) analyzed on January 6, 2022. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

The spike recovery of methyl tert-butyl ether for the Laboratory Control Sample (LCS) and Duplicate Laboratory Control Sample (DLCS) analyzed on January 6, 2022 was outside the laboratory generated control criterion. The recovery errors equate to a potential low bias. However, the spike recovery of the analyte in question was within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Environmental Management Services, Inc.
 Project ID: In-Plant Monitoring / KUH0-21-011

Service Request: P2200015

Date Received: 1/3/2022
 Time Received: 09:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
Location 1	P2200015-001	Air	12/13/2021	16:12	1SS01389	-3.41	6.22	X
Location 2	P2200015-002	Air	12/13/2021	16:10	1SS00513	-3.40	6.22	X
Location 3	P2200015-003	Air	12/13/2021	16:10	1SC00397	-2.59	6.37	X

**ALS Environmental
Sample Acceptance Check Form**

Client: Environmental Management Services, Inc.

Work order: P2200015

Project: In-Plant Monitoring / KUH0-21-011

Sample(s) received on: 1/3/22

Date opened: 1/3/22

by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2200015-001.01	1.0 L Source Silonite Canister					
P2200015-002.01	1.0 L Source Silonite Canister					
P2200015-003.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01389

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	940	24	6.0	550	14	3.5	D
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	2.5	0.40	0.52	0.50	0.081	
74-87-3	Chloromethane	0.99	2.4	0.40	0.48	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.39	ND	0.36	0.056	
75-01-4	Vinyl Chloride	ND	2.4	0.26	ND	0.94	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.41	ND	1.1	0.18	
74-83-9	Bromomethane	ND	2.4	0.34	ND	0.61	0.088	
75-00-3	Chloroethane	ND	2.4	0.31	ND	0.89	0.12	
64-17-5	Ethanol	470	23	1.7	250	12	0.91	
75-05-8	Acetonitrile	ND	4.6	0.60	ND	2.8	0.36	
107-02-8	Acrolein	2.0	4.6	0.69	0.86	2.0	0.30	J
67-64-1	Acetone	220	24	5.6	91	10	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.4	0.37	0.21	0.43	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	26	4.6	1.0	11	1.9	0.41	
107-13-1	Acrylonitrile	ND	4.6	0.51	ND	2.1	0.23	
75-35-4	1,1-Dichloroethene	ND	2.5	0.34	ND	0.63	0.086	
75-09-2	Methylene Chloride	ND	2.4	0.69	ND	0.69	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.5	0.33	ND	0.78	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.51	2.5	0.35	0.066	0.33	0.046	J
75-15-0	Carbon Disulfide	ND	5.1	0.74	ND	1.6	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.34	ND	0.62	0.086	
75-34-3	1,1-Dichloroethane	ND	2.5	0.36	ND	0.61	0.089	
1634-04-4	Methyl tert-Butyl Ether	ND	2.5	0.29	ND	0.68	0.081	
108-05-4	Vinyl Acetate	ND	23	5.6	ND	6.6	1.6	
78-93-3	2-Butanone (MEK)	33	4.6	0.51	11	1.6	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01389

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.35	ND	0.61	0.088	
141-78-6	Ethyl Acetate	6.8	9.7	1.3	1.9	2.7	0.36	J
110-54-3	n-Hexane	ND	2.5	0.51	ND	0.70	0.14	
67-66-3	Chloroform	ND	2.5	0.33	ND	0.51	0.067	
109-99-9	Tetrahydrofuran (THF)	14	4.6	0.31	4.6	1.6	0.11	
107-06-2	1,2-Dichloroethane	ND	2.5	0.27	ND	0.61	0.067	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.31	ND	0.44	0.056	
71-43-2	Benzene	1.1	2.3	0.36	0.35	0.72	0.11	J
56-23-5	Carbon Tetrachloride	0.44	2.3	0.34	0.070	0.37	0.054	J
110-82-7	Cyclohexane	ND	5.1	0.69	ND	1.5	0.20	
78-87-5	1,2-Dichloropropane	ND	2.3	0.31	ND	0.50	0.066	
75-27-4	Bromodichloromethane	ND	2.5	0.36	ND	0.37	0.053	
79-01-6	Trichloroethene	ND	2.4	0.33	ND	0.45	0.062	
123-91-1	1,4-Dioxane	ND	2.4	0.29	ND	0.67	0.081	
80-62-6	Methyl Methacrylate	ND	5.1	0.88	ND	1.2	0.21	
142-82-5	n-Heptane	2.6	2.5	0.39	0.64	0.60	0.096	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.38	ND	0.51	0.085	
108-10-1	4-Methyl-2-pentanone	6.6	5.1	0.34	1.6	1.2	0.082	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.51	ND	0.52	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.25	ND	0.44	0.046	
108-88-3	Toluene	34	2.4	0.30	9.2	0.64	0.080	
591-78-6	2-Hexanone	4.5	5.1	0.31	1.1	1.2	0.075	J
124-48-1	Dibromochloromethane	ND	2.5	0.32	ND	0.29	0.038	
106-93-4	1,2-Dibromoethane	ND	2.4	0.29	ND	0.31	0.037	
123-86-4	n-Butyl Acetate	8.5	5.1	0.34	1.8	1.1	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 1

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01389

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.5	2.5	0.56	0.31	0.52	0.12	J
127-18-4	Tetrachloroethene	ND	2.4	0.32	ND	0.35	0.047	
108-90-7	Chlorobenzene	ND	2.4	0.33	ND	0.52	0.071	
100-41-4	Ethylbenzene	18	2.4	0.35	4.0	0.55	0.080	
179601-23-1	m,p-Xylenes	72	5.1	0.65	17	1.2	0.15	
75-25-2	Bromoform	ND	2.4	0.51	ND	0.23	0.049	
100-42-5	Styrene	1.0	2.3	0.40	0.24	0.54	0.093	J
95-47-6	o-Xylene	21	2.4	0.36	4.9	0.55	0.082	
111-84-2	n-Nonane	2.7	2.4	0.41	0.51	0.46	0.078	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.34	ND	0.35	0.050	
98-82-8	Cumene	0.73	2.4	0.36	0.15	0.49	0.072	J
80-56-8	alpha-Pinene	12	2.5	0.38	2.1	0.45	0.068	V
103-65-1	n-Propylbenzene	ND	2.5	0.36	ND	0.50	0.072	
622-96-8	4-Ethyltoluene	2.0	2.5	0.39	0.40	0.50	0.080	J
108-67-8	1,3,5-Trimethylbenzene	2.0	2.4	0.36	0.41	0.49	0.072	J
95-63-6	1,2,4-Trimethylbenzene	7.5	2.4	0.34	1.5	0.49	0.070	
100-44-7	Benzyl Chloride	ND	5.1	0.56	ND	0.98	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.37	ND	0.40	0.062	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.38	ND	0.40	0.063	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.37	ND	0.41	0.061	
5989-27-5	d-Limonene	12	2.3	0.51	2.1	0.42	0.091	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	0.46	ND	0.48	0.048	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.60	ND	0.69	0.081	
91-20-3	Naphthalene	3.9	2.4	0.60	0.74	0.46	0.11	
87-68-3	Hexachlorobutadiene	ND	2.4	0.51	ND	0.23	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 2

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00513

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	150	2.4	0.60	86	1.4	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.5	0.40	0.48	0.50	0.081	J
74-87-3	Chloromethane	0.95	2.4	0.40	0.46	1.1	0.19	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.5	0.39	ND	0.36	0.056	
75-01-4	Vinyl Chloride	ND	2.4	0.26	ND	0.94	0.10	
106-99-0	1,3-Butadiene	ND	2.4	0.41	ND	1.1	0.18	
74-83-9	Bromomethane	ND	2.4	0.34	ND	0.61	0.088	
75-00-3	Chloroethane	ND	2.4	0.31	ND	0.89	0.12	
64-17-5	Ethanol	200	23	1.7	110	12	0.91	
75-05-8	Acetonitrile	ND	4.6	0.60	ND	2.8	0.36	
107-02-8	Acrolein	1.2	4.6	0.69	0.51	2.0	0.30	J
67-64-1	Acetone	420	24	5.6	180	10	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.4	0.37	0.21	0.43	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	11	4.6	1.0	4.5	1.9	0.41	
107-13-1	Acrylonitrile	ND	4.6	0.51	ND	2.1	0.23	
75-35-4	1,1-Dichloroethene	ND	2.5	0.34	ND	0.63	0.086	
75-09-2	Methylene Chloride	ND	2.4	0.69	ND	0.69	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.5	0.33	ND	0.78	0.11	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.50	2.5	0.35	0.066	0.33	0.046	J
75-15-0	Carbon Disulfide	ND	5.1	0.74	ND	1.6	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.34	ND	0.62	0.086	
75-34-3	1,1-Dichloroethane	ND	2.5	0.36	ND	0.61	0.089	
1634-04-4	Methyl tert-Butyl Ether	ND	2.5	0.29	ND	0.68	0.081	
108-05-4	Vinyl Acetate	ND	23	5.6	ND	6.6	1.6	
78-93-3	2-Butanone (MEK)	30	4.6	0.51	10	1.6	0.17	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 2

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00513

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.35	ND	0.61	0.088	
141-78-6	Ethyl Acetate	5.1	9.7	1.3	1.4	2.7	0.36	J
110-54-3	n-Hexane	ND	2.5	0.51	ND	0.70	0.14	
67-66-3	Chloroform	ND	2.5	0.33	ND	0.51	0.067	
109-99-9	Tetrahydrofuran (THF)	37	4.6	0.31	13	1.6	0.11	
107-06-2	1,2-Dichloroethane	ND	2.5	0.27	ND	0.61	0.067	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.31	ND	0.44	0.056	
71-43-2	Benzene	1.1	2.3	0.36	0.34	0.72	0.11	J
56-23-5	Carbon Tetrachloride	0.44	2.3	0.34	0.071	0.37	0.054	J
110-82-7	Cyclohexane	ND	5.1	0.69	ND	1.5	0.20	
78-87-5	1,2-Dichloropropane	ND	2.3	0.31	ND	0.50	0.066	
75-27-4	Bromodichloromethane	ND	2.5	0.36	ND	0.37	0.053	
79-01-6	Trichloroethene	ND	2.4	0.33	ND	0.45	0.062	
123-91-1	1,4-Dioxane	ND	2.4	0.29	ND	0.67	0.081	
80-62-6	Methyl Methacrylate	ND	5.1	0.88	ND	1.2	0.21	
142-82-5	n-Heptane	2.2	2.5	0.39	0.55	0.60	0.096	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.38	ND	0.51	0.085	
108-10-1	4-Methyl-2-pentanone	5.5	5.1	0.34	1.3	1.2	0.082	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.51	ND	0.52	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.25	ND	0.44	0.046	
108-88-3	Toluene	17	2.4	0.30	4.5	0.64	0.080	
591-78-6	2-Hexanone	ND	5.1	0.31	ND	1.2	0.075	
124-48-1	Dibromochloromethane	ND	2.5	0.32	ND	0.29	0.038	
106-93-4	1,2-Dibromoethane	ND	2.4	0.29	ND	0.31	0.037	
123-86-4	n-Butyl Acetate	13	5.1	0.34	2.7	1.1	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 2

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00513

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.22

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	2.0	2.5	0.56	0.42	0.52	0.12	J
127-18-4	Tetrachloroethene	0.62	2.4	0.32	0.092	0.35	0.047	J
108-90-7	Chlorobenzene	ND	2.4	0.33	ND	0.52	0.071	
100-41-4	Ethylbenzene	53	2.4	0.35	12	0.55	0.080	
179601-23-1	m,p-Xylenes	230	5.1	0.65	52	1.2	0.15	
75-25-2	Bromoform	ND	2.4	0.51	ND	0.23	0.049	
100-42-5	Styrene	1.0	2.3	0.40	0.24	0.54	0.093	J
95-47-6	o-Xylene	65	2.4	0.36	15	0.55	0.082	
111-84-2	n-Nonane	2.7	2.4	0.41	0.52	0.46	0.078	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.34	ND	0.35	0.050	
98-82-8	Cumene	1.5	2.4	0.36	0.31	0.49	0.072	J
80-56-8	alpha-Pinene	5.9	2.5	0.38	1.1	0.45	0.068	V
103-65-1	n-Propylbenzene	3.8	2.5	0.36	0.77	0.50	0.072	
622-96-8	4-Ethyltoluene	4.1	2.5	0.39	0.83	0.50	0.080	
108-67-8	1,3,5-Trimethylbenzene	5.0	2.4	0.36	1.0	0.49	0.072	
95-63-6	1,2,4-Trimethylbenzene	18	2.4	0.34	3.6	0.49	0.070	
100-44-7	Benzyl Chloride	ND	5.1	0.56	ND	0.98	0.11	
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.37	ND	0.40	0.062	
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.38	ND	0.40	0.063	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.37	ND	0.41	0.061	
5989-27-5	d-Limonene	5.3	2.3	0.51	0.95	0.42	0.091	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	0.46	ND	0.48	0.048	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.60	ND	0.69	0.081	
91-20-3	Naphthalene	4.8	2.4	0.60	0.92	0.46	0.11	
87-68-3	Hexachlorobutadiene	ND	2.4	0.51	ND	0.23	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00397

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.37

Canister Dilution Factor: 1.74

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	2.3	0.57	ND	1.3	0.33	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.3	0.38	0.50	0.47	0.077	
74-87-3	Chloromethane	0.84	2.2	0.37	0.41	1.1	0.18	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.3	0.37	ND	0.34	0.052	
75-01-4	Vinyl Chloride	ND	2.3	0.25	ND	0.89	0.097	
106-99-0	1,3-Butadiene	ND	2.3	0.38	ND	1.0	0.17	
74-83-9	Bromomethane	ND	2.2	0.32	ND	0.57	0.083	
75-00-3	Chloroethane	ND	2.2	0.29	ND	0.84	0.11	
64-17-5	Ethanol	52	22	1.6	28	12	0.85	
75-05-8	Acetonitrile	0.74	4.4	0.57	0.44	2.6	0.34	J
107-02-8	Acrolein	0.87	4.4	0.65	0.38	1.9	0.28	J
67-64-1	Acetone	34	23	5.2	14	9.5	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	2.3	0.35	0.22	0.40	0.063	J
67-63-0	2-Propanol (Isopropyl Alcohol)	9.4	4.4	0.96	3.8	1.8	0.39	
107-13-1	Acrylonitrile	ND	4.4	0.48	ND	2.0	0.22	
75-35-4	1,1-Dichloroethene	ND	2.3	0.32	ND	0.59	0.081	
75-09-2	Methylene Chloride	0.74	2.3	0.65	0.21	0.65	0.19	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.3	0.31	ND	0.74	0.10	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.48	2.3	0.33	0.062	0.31	0.043	J
75-15-0	Carbon Disulfide	4.0	4.8	0.70	1.3	1.5	0.22	J
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.32	ND	0.58	0.081	
75-34-3	1,1-Dichloroethane	ND	2.3	0.34	ND	0.57	0.084	
1634-04-4	Methyl tert-Butyl Ether	ND	2.3	0.27	ND	0.64	0.076	
108-05-4	Vinyl Acetate	ND	22	5.2	ND	6.2	1.5	
78-93-3	2-Butanone (MEK)	15	4.4	0.48	5.2	1.5	0.16	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-003

Test Code: EPA TO-15

Date Collected: 12/13/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 1/3/22

Analyst: Simon Cao

Date Analyzed: 1/7/22

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00397

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.37

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.33	ND	0.57	0.082	
141-78-6	Ethyl Acetate	29	9.1	1.2	8.2	2.5	0.34	
110-54-3	n-Hexane	ND	2.3	0.48	ND	0.65	0.14	
67-66-3	Chloroform	ND	2.3	0.31	ND	0.48	0.063	
109-99-9	Tetrahydrofuran (THF)	1.7	4.4	0.29	0.56	1.5	0.099	J
107-06-2	1,2-Dichloroethane	0.38	2.3	0.26	0.094	0.57	0.063	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.29	ND	0.41	0.053	
71-43-2	Benzene	0.89	2.2	0.33	0.28	0.68	0.10	J
56-23-5	Carbon Tetrachloride	0.39	2.2	0.32	0.062	0.35	0.051	J
110-82-7	Cyclohexane	ND	4.8	0.65	ND	1.4	0.19	
78-87-5	1,2-Dichloropropane	ND	2.2	0.29	ND	0.47	0.062	
75-27-4	Bromodichloromethane	ND	2.3	0.33	ND	0.34	0.050	
79-01-6	Trichloroethene	ND	2.3	0.31	ND	0.42	0.058	
123-91-1	1,4-Dioxane	ND	2.3	0.27	ND	0.63	0.076	
80-62-6	Methyl Methacrylate	ND	4.8	0.83	ND	1.2	0.20	
142-82-5	n-Heptane	0.85	2.3	0.37	0.21	0.56	0.090	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.36	ND	0.48	0.080	
108-10-1	4-Methyl-2-pentanone	1.8	4.8	0.32	0.44	1.2	0.078	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.48	ND	0.49	0.11	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.23	ND	0.41	0.043	
108-88-3	Toluene	12	2.3	0.28	3.1	0.60	0.075	
591-78-6	2-Hexanone	0.57	4.8	0.29	0.14	1.2	0.070	J
124-48-1	Dibromochloromethane	ND	2.3	0.30	ND	0.27	0.036	
106-93-4	1,2-Dibromoethane	ND	2.3	0.27	ND	0.29	0.035	
123-86-4	n-Butyl Acetate	7.2	4.8	0.32	1.5	1.0	0.067	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Location 3

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P2200015-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00397

Date Collected: 12/13/21

Date Received: 1/3/22

Date Analyzed: 1/7/22

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.37

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.66	2.3	0.52	0.14	0.49	0.11	J
127-18-4	Tetrachloroethene	2.5	2.3	0.30	0.37	0.33	0.044	
108-90-7	Chlorobenzene	ND	2.3	0.31	ND	0.49	0.067	
100-41-4	Ethylbenzene	2.3	2.3	0.33	0.53	0.52	0.075	
179601-23-1	m,p-Xylenes	8.2	4.8	0.61	1.9	1.1	0.14	
75-25-2	Bromoform	ND	2.3	0.48	ND	0.22	0.046	
100-42-5	Styrene	ND	2.2	0.37	ND	0.51	0.088	
95-47-6	o-Xylene	2.6	2.3	0.33	0.60	0.52	0.077	
111-84-2	n-Nonane	0.78	2.3	0.39	0.15	0.43	0.074	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.32	ND	0.33	0.047	
98-82-8	Cumene	ND	2.3	0.33	ND	0.46	0.068	
80-56-8	alpha-Pinene	4.6	2.3	0.36	0.83	0.42	0.064	V
103-65-1	n-Propylbenzene	ND	2.3	0.33	ND	0.47	0.068	
622-96-8	4-Ethyltoluene	ND	2.3	0.37	ND	0.47	0.075	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	0.33	ND	0.46	0.068	
95-63-6	1,2,4-Trimethylbenzene	0.87	2.3	0.32	0.18	0.46	0.066	J
100-44-7	Benzyl Chloride	ND	4.8	0.52	ND	0.92	0.10	
541-73-1	1,3-Dichlorobenzene	ND	2.3	0.35	ND	0.38	0.058	
106-46-7	1,4-Dichlorobenzene	ND	2.3	0.36	ND	0.38	0.059	
95-50-1	1,2-Dichlorobenzene	ND	2.3	0.34	ND	0.38	0.057	
5989-27-5	d-Limonene	3.6	2.2	0.48	0.64	0.39	0.086	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	0.44	ND	0.45	0.045	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.57	ND	0.64	0.076	
91-20-3	Naphthalene	ND	2.3	0.57	ND	0.43	0.11	
87-68-3	Hexachlorobutadiene	ND	2.3	0.48	ND	0.21	0.045	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P220106-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/6/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.52	0.13	ND	0.30	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.51	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	0.084	ND	0.077	0.012	
75-01-4	Vinyl Chloride	ND	0.52	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.52	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.51	0.066	ND	0.19	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.2	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.41	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.46	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.52	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.35	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.074	ND	0.13	0.019	
75-34-3	1,1-Dichloroethane	ND	0.53	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.34	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P220106-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/6/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.53	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.50	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.50	0.074	ND	0.080	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.50	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.063	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.083	ND	0.11	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.52	0.054	ND	0.095	0.0099	
108-88-3	Toluene	ND	0.52	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.53	0.070	ND	0.062	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.1	0.073	ND	0.23	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Method Blank

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P220106-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/6/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	0.12	ND	0.11	0.026	
127-18-4	Tetrachloroethene	ND	0.52	0.069	ND	0.077	0.010	
108-90-7	Chlorobenzene	ND	0.52	0.071	ND	0.11	0.015	
100-41-4	Ethylbenzene	ND	0.52	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.52	0.11	ND	0.050	0.011	
100-42-5	Styrene	ND	0.50	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.52	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.52	0.089	ND	0.099	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.074	ND	0.076	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	0.54	0.082	ND	0.097	0.015	
103-65-1	n-Propylbenzene	ND	0.53	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.53	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	1.1	0.12	ND	0.21	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.53	0.079	ND	0.088	0.013	
5989-27-5	d-Limonene	ND	0.50	0.11	ND	0.090	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.10	ND	0.10	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.52	0.13	ND	0.099	0.025	
87-68-3	Hexachlorobutadiene	ND	0.52	0.11	ND	0.049	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Management Services, Inc.
Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 12/13/21
 Date(s) Received: 1/3/22
 Date(s) Analyzed: 1/6 - 1/7/22

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P220106-MB	112	88	105	70-130	
Lab Control Sample	P220106-LCS	109	85	105	70-130	
Duplicate Lab Control Sample	P220106-DLCS	108	86	105	70-130	
Location 1	P2200015-001	111	88	109	70-130	
Location 2	P2200015-002	109	89	110	70-130	
Location 3	P2200015-003	110	89	109	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Management Services, Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015
 ALS Sample ID: P220106-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/6/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	206	231	224	112	109	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	207	201	100	97	71-112	3	25	
74-87-3	Chloromethane	206	214	207	104	100	53-126	4	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	201	198	97	95	62-121	2	25	
75-01-4	Vinyl Chloride	208	228	221	110	106	63-123	4	25	
106-99-0	1,3-Butadiene	206	220	220	107	107	63-135	0	25	
74-83-9	Bromomethane	206	219	213	106	103	71-112	3	25	
75-00-3	Chloroethane	206	230	223	112	108	66-117	4	25	
64-17-5	Ethanol	832	900	887	108	107	57-117	0.9	25	
75-05-8	Acetonitrile	202	207	205	102	101	59-131	1	25	
107-02-8	Acrolein	416	455	450	109	108	71-123	0.9	25	
67-64-1	Acetone	1,020	1060	1050	104	103	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	199	195	99	97	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	462	454	116	114	61-124	2	25	
107-13-1	Acrylonitrile	402	448	441	111	110	65-130	0.9	25	
75-35-4	1,1-Dichloroethene	210	212	209	101	100	74-114	1	25	
75-09-2	Methylene Chloride	208	206	204	99	98	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	208	208	102	102	57-127	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	198	197	92	91	73-114	1	25	
75-15-0	Carbon Disulfide	414	420	414	101	100	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	208	227	224	109	108	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	223	219	104	102	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	206	141	139	68	67	72-118	1	25	L
108-05-4	Vinyl Acetate	942	1040	1020	110	108	56-137	2	25	
78-93-3	2-Butanone (MEK)	408	428	421	105	103	74-121	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased low.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P220106-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/6/22

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
156-59-2	cis-1,2-Dichloroethene	206	222	217	108	105	73-117	3	25	
141-78-6	Ethyl Acetate	580	581	581	100	100	59-161	0	25	
110-54-3	n-Hexane	208	218	214	105	103	55-130	2	25	
67-66-3	Chloroform	210	213	210	101	100	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	418	415	103	103	73-114	0	25	
107-06-2	1,2-Dichloroethane	210	217	213	103	101	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	208	201	198	97	95	73-119	2	25	
71-43-2	Benzene	208	193	190	93	91	72-113	2	25	
56-23-5	Carbon Tetrachloride	202	191	186	95	92	67-123	3	25	
110-82-7	Cyclohexane	412	386	382	94	93	70-119	1	25	
78-87-5	1,2-Dichloropropane	206	214	210	104	102	70-118	2	25	
75-27-4	Bromodichloromethane	208	212	208	102	100	74-119	2	25	
79-01-6	Trichloroethene	204	197	193	97	95	74-115	2	25	
123-91-1	1,4-Dioxane	206	205	201	100	98	77-124	2	25	
80-62-6	Methyl Methacrylate	410	424	417	103	102	78-126	1	25	
142-82-5	n-Heptane	206	209	207	101	100	70-119	1	25	
10061-01-5	cis-1,3-Dichloropropene	208	218	214	105	103	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	412	440	434	107	105	73-129	2	25	
10061-02-6	trans-1,3-Dichloropropene	200	215	212	108	106	80-127	2	25	
79-00-5	1,1,2-Trichloroethane	208	210	207	101	100	78-117	1	25	
108-88-3	Toluene	206	164	163	80	79	70-118	1	25	
591-78-6	2-Hexanone	406	376	373	93	92	74-132	1	25	
124-48-1	Dibromochloromethane	210	168	165	80	79	69-137	1	25	
106-93-4	1,2-Dibromoethane	208	171	169	82	81	76-128	1	25	
123-86-4	n-Butyl Acetate	406	383	380	94	94	75-134	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Management Services, Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: In-Plant Monitoring / KUH0-21-011

ALS Project ID: P2200015

ALS Sample ID: P220106-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/6/22

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS Acceptance		RPD	RPD Limit	Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Limits	Limit				
111-65-9	n-Octane	208	187	186	90	89	68-120	1	25			
127-18-4	Tetrachloroethene	212	158	157	75	74	63-130	1	25			
108-90-7	Chlorobenzene	206	165	164	80	80	70-118	0	25			
100-41-4	Ethylbenzene	206	170	168	83	82	71-123	1	25			
179601-23-1	m,p-Xylenes	416	340	336	82	81	67-127	1	25			
75-25-2	Bromoform	210	166	165	79	79	65-149	0	25			
100-42-5	Styrene	202	174	173	86	86	76-132	0	25			
95-47-6	o-Xylene	208	172	170	83	82	69-124	1	25			
111-84-2	n-Nonane	208	193	191	93	92	64-127	1	25			
79-34-5	1,1,2,2-Tetrachloroethane	208	177	176	85	85	69-128	0	25			
98-82-8	Cumene	206	164	163	80	79	69-125	1	25			
80-56-8	alpha-Pinene	210	275	271	131	129	68-129	2	25		L	
103-65-1	n-Propylbenzene	208	169	167	81	80	70-127	1	25			
622-96-8	4-Ethyltoluene	208	167	165	80	79	69-127	1	25			
108-67-8	1,3,5-Trimethylbenzene	208	171	170	82	82	66-129	0	25			
95-63-6	1,2,4-Trimethylbenzene	206	172	170	83	83	63-142	0	25			
100-44-7	Benzyl Chloride	416	382	380	92	91	73-145	1	25			
541-73-1	1,3-Dichlorobenzene	208	164	163	79	78	67-136	1	25			
106-46-7	1,4-Dichlorobenzene	210	164	164	78	78	63-134	0	25			
95-50-1	1,2-Dichlorobenzene	210	162	160	77	76	64-139	1	25			
5989-27-5	d-Limonene	206	197	196	96	95	63-137	1	25			
96-12-8	1,2-Dibromo-3-chloropropane	404	306	307	76	76	72-145	0	25			
120-82-1	1,2,4-Trichlorobenzene	420	345	345	82	82	62-154	0	25			
91-20-3	Naphthalene	210	187	189	89	90	62-156	1	25			
87-68-3	Hexachlorobutadiene	212	147	147	69	69	55-142	0	25			

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.