ENVIRONMENTAL
MANAGEMENT SERVICES, INC.

September 10, 2015

Mr. Thomas Wallace
Assessment Remediation Branch
Mississippi Department of Environmental Quality
515 East Amite Street
Jackson, Mississippi 39201

Re: Kuhlman Electric Corporation
Soil Vapor Extraction Semi-Annual Report
Crystal Springs, Mississippi

Dear Mr. Wallace:

Environmental Management Services, Inc. (EMS) has prepared the First Semi-Annual Report for the Soil Vapor Extraction 2015 for the Kuhlman Electric Corporation in Crystal Springs, Mississippi. Please find the enclosed copy of the aforementioned report.

Please contact EMS at (601) 544-3674 if you should have any question or comments concerning the enclosure.

Sincerely,
Environmental Management Services, Inc.

Stephanie Kilgore

Stephanie Kilgore, P.E.
Senior Engineer

Enclosure: First Semi-Annual Soil Vapor Extraction Report 2015

cc:
Lorraine Stoer, KEC
Allen Gearhart, KEC
Melody Christopher, ABB, Inc.
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SOIL VAPOR EXTRACTION SYSTEM SEMIANNUAL REPORT

KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MISSISSIPPI

Prepared by:

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

P.O. Box 15369
Hattiesburg, Mississippi 39404

September 10, 2015

EMS Project No: KUH0-15-012

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B	Observation Well Soil Vapor Analytical Results
C	Ambient Air Sampling Laboratory Analytical Results

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 the Kuhlman Electric Corporation (KEC) facility located in Crystal Springs, Mississippi for the first semi-annual period of 2015.

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

Historical Information Summary

The KEC facility 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 sub-surface 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 (dioxane).

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, on a quarterly to semi-annual schedule since 2005, and is presently ongoing. A total of forty-four permanent groundwater monitoring wells are used to monitor the groundwater plume.

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. The soil vapor study 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. VOCs were detected, throughout the previously defined source area at varying depths, in the onsite soils.

A source area for the VOCs and dioxane constituents in groundwater has been identified beneath the plant floor within subsurface soil. This area is near the western portion of the plant building beneath the Winding Department process area, the Break Room, and a former rail pit located west of the IT Test Department, as described in the April 2009 *Groundwater Assessment Report*.

These investigations beneath the building footprint confirmed that commingled plumes of DCE and dioxane extend from upgradient of the source area, beneath the plant building, to the southwest and offsite. The DCE plume extends offsite approximately 3,000 feet to the south and approximately 2,800 feet to the west from the property boundary based on the most recent groundwater sampling data collected in March of 2015.

DCE and dioxane have been identified as the primary Constituents of Concern (COC) at this site. The presence of 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. Other COC include TCA and carbon tetrachloride (CT).

As a result of the discovery of the groundwater contamination and subsequent investigations of soil and groundwater, Borg Warner 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 1. 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

Groundwater Results

Groundwater was sampled from monitoring wells MW-10A, MW-10B, MW-10C, MW-30, MW-31, and SVE-EXT-DEEP, as shown on Figure 1, on March 24-26, 2015 and on June 2, 2015, for the required quarterly sampling events. The results showed concentrations of DCE ranging from 3.3 to 170 micrograms per liter (µg/l). Samples from monitoring wells SVE-EXT-DEEP, MW-10A, and MW-30 showed concentrations exceeding the MDEQ groundwater target remediation goal (TRG) of 7.0 µg/l. The analytical results showed detection of dioxane ranging from 0.73 to 6.3 µg/l in the groundwater samples obtained from SVE-EXT-DEEP, MW-10A, MW-10B, MW-30, and MW-31. The analytical results for SVE-EXT-DEEP showed concentrations of dioxane of 6.3 µg/l, above the MDEQ TRG of 6.09 µg/l. The remaining samples with detections were below the MDEQ TRG for dioxane. The samples obtained from SVE-EXT-DEEP, MW-10A, and MW-30 exhibited concentrations of TCA ranging from 0.52 to 140 µg/l, which are below the MDEQ TRG. The analytical results for SVE-EXT-DEEP and MW-10A showed concentrations greater than MDEQ TRG levels for chloroform and 1,1,2-trichloroethane. The analytical results for SVE-EXT-DEEP had concentrations greater than the MDEQ TRG levels for 1,2-dichloroethane (EDC). SVE-EXT-DEEP is located near the defined source area. The analytical results are presented in Table 1, and the laboratory analytical report is contained in Appendix A.

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 measure the relative VOC concentration in the soil vapor within the well. The measured relative concentrations ranged from 0.1 to 0.9 ppm with the PID and 0.4 to 15 ppm with the FID. The observation well soil vapor results from January-June are summarized in Table 2.

The observation well soil vapor was also sampled and analyzed for VOCs and dioxane during the February and June sampling events using 1-liter SUMMA canisters. The vapor samples were collected by placing tubing within the middle of the screened interval depth, and a PID meter and FID meter were used to 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 B.

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 concentration measured by the PID meter in the discharge from the SVE system prior to carbon treatment ranged from 0.2 to 1.7 ppm during the monitoring period. The relative VOC concentration measured with the FID meter in the discharge of the SVE system prior to carbon treatment ranged from 6.8 to 13 ppm. The monitoring results 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 dioxane. Samples were collected during February and June. The results are summarized in Table 5. The Post Carbon 1 and 2 samples from February and June indicated increased concentrations of two COCs in each carbon treatment unit; however, the concentrations are still well below any published regulatory limit. KEC will continue to monitor these concentrations to ensure COCs are being captured within the carbon units as designed. If the concentrations continue to increase in the carbon units a contingency plan will be initiated and include the mixing of the carbon to minimize any channelization and/or replacement of the carbon.

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 January to June are contained in Table 6.

Ambient Air Results

Ambient air sampling was performed during monthly site visits 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 dioxane. No detections of any constituent of concern were observed in the ambient air samples from January to June. The concentrations of the analytes detected were well below any published regulatory limit. The analytical results of the ambient air monitoring for the semi-annual 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 3.19 inches of water. The vacuum response measurements for the first semi-annual period in 2015 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.

KEC is proposing to reduce the SVE system groundwater sampling to coincide with the routine semi-annual sampling at monitoring wells MW-10A, MW-10B, MW-10C, MW-30, MW-31, and SVE-EXT-DEEP for the remainder of the operation of the SVE system. The nine observation wells will be monitored for vacuum response and relative VOC concentrations in the soil vapor quarterly. The relative VOC concentrations will be monitored using both a PID and FID meter. The SVE system unit emissions and observation well soil vapor will also be sampled quarterly and analyzed for VOC and dioxane. Monthly operations and maintenance visits to the SVE unit will also continue while the unit is in operation. KEC is also proposing to reduce the ambient air sampling to a quarterly schedule, rather than the monthly monitoring that took place during the first year of SVE unit operation. These SVE system monitoring events will be documented and reported semi-annually.

All monitoring and remediation objectives were met for this reporting period. Monitoring data from this period have been added to the database for the site and will be used to evaluate trends as they develop from future monitoring activities.

Figures

KUHLMAN ELECTRIC CORPORATION

SVE-EXT-DEEP

SOURCE AREA

MW-01 CLOSED

MW-02 MW-03 MW-04 MW-05 MW-06 MW-07 MW-08 MW-09 MW-10A MW-10B MW-10C MW-11A MW-11B MW-12 MW-13 MW-14A MW-14B MW-15A MW-15B MW-16 MW-17A MW-17B MW-18A MW-18B MW-19 MW-20A MW-20B MW-21A MW-21B MW-22 MW-23A MW-23B MW-24 MW-25 MW-26 MW-27 MW-28 MW-29 MW-30 MW-31 MW-32 MW-33 MW-34

CSW-WA1 CSW-WA2 CSW-WA3 CSW-WA4 CSW-WA7

CSW TREATMENT FACILITY

TREATMENT BUILDINGS

CAMP STREET
FULGHAM AVENUE
YOUNG STREET
GLEN STREET
LAMAR STREET
LEE CIRCLE
LEE AVENUE
PORTER ST
ILLINOIS CENTRAL GULF RAILROAD
MCPHERSON STREET
HUNTER STREET
DEANNE STREET
PEARL STREET
GIBSON STREET
PRICE STREET
WEST RAILROAD AVENUE NORTH
JACKSON STREET
WEST GEORGETOWN STREET
EAST GEORGETOWN STREET
RAYMOND STREET
WEST MARION AVENUE
EAST MARION AVENUE
ALLEY
FIRST STREET
INDEPENDENCE STREET
WEST CAYUGA STREET
EAST CAYUGA STREET
JANET STREET
LIBERTY STREET
COPLEY STREET
ROOSEVELT STREET
CHURCHILL STREET
W CAYUGA STREET
HORNE STREET
BRANT STREET
FRASER STREET
BYRD STREET
EAST RAILROAD AVENUE
KIRK STREET
BERNSTEIN DRIVE
SOUTH AVENUE
SOUTH JACKSON STREET
WEST RAILROAD AVENUE SOUTH
WASHINGTON STREET
SIBBIE STREET
OSBORNE

LEGEND

- MONITOR WELL LOCATION (MW-00A)
- SVE GROUNDWATER SAMPLING LOCATIONS
- ① MONITOR WELL LOCATION
- ② MONITOR WELL NUMBER
- SOURCE AREA
- KEC PROPERTY LINE
- KEC BUILDING FOOTPRINT
- MUNICIPAL WATER WELL

NOTE: SURVEY DATA SUPPLIED BY ARCADIS

0 400' 800'

GRAPHIC SCALE

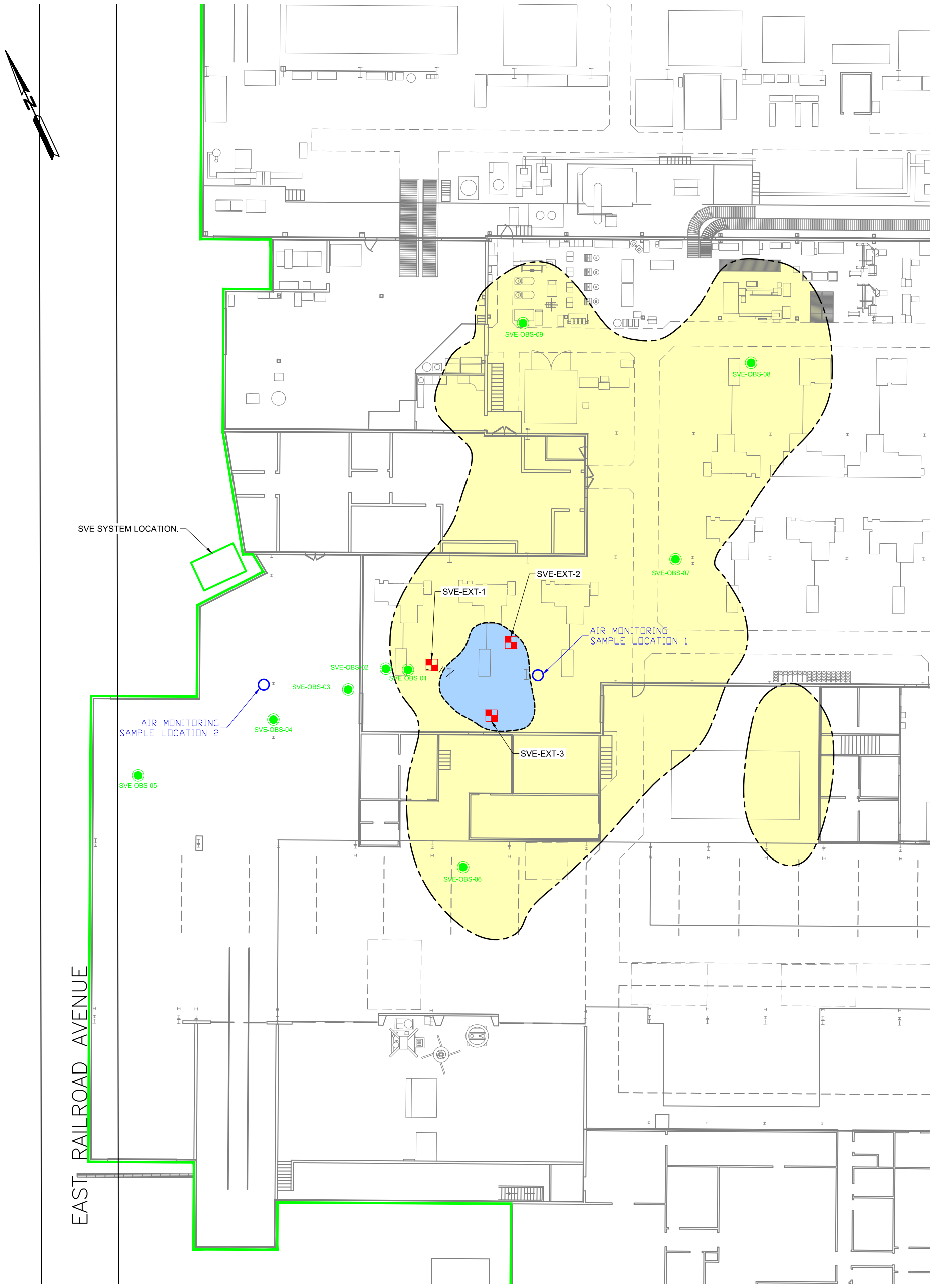
MONITORING WELL LOCATION - WELL LAYOUT

KUHLMAN ELECTRIC CORPORATION
KEC FACILITY
CRYSTAL SPRINGS, MISSISSIPPI

DATE: 08/29/13	APPROVED: BY: DATE:	DRAWN BY: P.D.M.
SCALE: AS SHOWN		CAD NO. KUH0-13-014

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

FIGURE 1



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)

SCALE 1 INCH = 25 FEET

5 10 25

0 5 10 15 20 25 50

NOTES:
1) SOIL CONCENTRATIONS ARE BASED ON EXTENT AS DEFINED IN CORRECTIVE ACTION PLAN, ARCADIS, MARCH 2010.

SVE SYSTEM LAYOUT

KUHLMAN ELECTRIC CORPORATION
KEC FACILITY
CRYSTAL SPRINGS, MISSISSIPPI

DATE: 01/28/2015	APPROVED: BY: ____ DATE: ____	DRAWN BY: P.D.M.
SCALE: AS SHOWN		CAD NO. KUH0-15-002

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

FIGURE 2

Tables

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY

SVE Quarterly Sampling First Semi-Annual 2015
Kuhlman Electric Corporation
Crystal Springs, MS

		SVE-EXT-DEEP		MW-10A		MW-10B		MW-10C		MW-30		MW-31		
Constituent	**MDEQ Tier I TRG ***	**KEP-GW-035-005**	**KEP-GW-035-006**	**KEP-GW-010A-025**	**KEP-GW-010A-026**	**KEP-GW-010B-025**	**KEP-GW-010B-026**	**KEP-GW-010C-025**	**KEP-GW-010C-026**	**KEP-GW-030-011**	**KEP-GW-030-012**	**KEP-GW-031-011**	**KEP-GW-031-012**	**BD1-0615**
Sample Date		**3/26/2015**	**6/2/2015**	**3/25/2015**	**6/2/2015**	**3/25/2015**	**6/2/2015**	**3/25/2015**	**6/2/2015**	**3/25/2015**	**6/2/2015**	**3/24/2015**	**6/2/2015**	**6/2/2015**
1,1,1-Trichloroethane (TCA)	200	140	85	0.52	1.2	<0.5	<0.5	<0.5	<0.5	2.9	3	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	5.0	**59**	**40**	**5.0**	**7.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	798	10	6.1	1.6	2.7	<0.5	<0.5	<0.5	<0.5	1.3	1.2	<0.5	<0.5	<0.5
1,1-Dichloroethene	7.0	**170**	**110**	**41**	**75**	4.5	5.8	<0.5	<0.5	**39**	**37**	3.3	7	7.3
1,2-Dichloroethane (EDC)	5.0	**18**	**12**	1.8	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	6.09	**6.3**	5.0	5.8	6.0	0.87	0.94	<0.5	<0.5	1.2	1.3	<0.5	0.73	0.78
Chloroform	0.155	**3.2**	**1.9**	**0.57**	**0.85**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	70	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (PCE)	5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.92	0.97	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE)	5.0	2.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<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 (TRG's) for Groundwater*

TABLE 2
OBSERVATION WELL RELATIVE VOC CONCENTRATIONS RESULTS SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

OBSERVATION WELL PID RESULTS SUMMARY

Date	SVE-OBS-1	SVE-OBS-2	SVE-OBS-3	SVE-OBS-4	SVE-OBS-5	SVE-OBS-6	SVE-OBS-7	SVE-OBS-8	SVE-OBS-9
2/17/2015	0	0	0	0	0	0.7	0.1	0	0.1
6/24/2015	0.3	0.3	0.7	0.7	0.9	0.6	0.4	0.2	0.3

OBSERVATION WELL FID RESULTS SUMMARY

Date	SVE-OBS-1	SVE-OBS-2	SVE-OBS-3	SVE-OBS-4	SVE-OBS-5	SVE-OBS-6	SVE-OBS-7	SVE-OBS-8	SVE-OBS-9
2/17/2015	2.4	6.8	7.2	7.7	6.0	12.0	15.0	8.0	7.0
6/24/2015	0	2	0.4	1.4	1.0	0	2.0	0	2.0

TABLE 3
OBSERVATION WELL SOIL VAPOR ANALYTICAL RESULTS SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

Compound	SVE-OBS-1		SVE-OBS-2		SVE-OBS-3		SVE-OBS-4		SVE-OBS-5		SVE-OBS-6		SVE-OBS-7		SVE-OBS-8		SVE-OBS-9	
Sample Date	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015
1,1,1-Trichloroethane	0.15	1.7	0.15	2.4	0.18	1.2	0.58	0.39	ND	ND	16	12	0.86	1.3	2.4	5.2	0.52	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	0.24	0.098	ND	0.1	ND	0.1	0.11
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	0.95	0.13	ND	1.3	3.4	0.14	ND
1,1-Dichloroethene	ND	1.9	ND	0.8	ND	2.5	0.69	0.54	ND	ND	4.1	2.6	0.17	ND	19	60	0.79	0.7
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.075	ND	0.072	ND	0.074	ND	0.074	ND
1,2,4-Trimethylbenzene	1.6	3.2	1.7	1.6	1.4	2.4	1.7	4.5	0.96	1.1	1.2	3.4	2.1	4.2	1.6	2.8	2.4	3.3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	0.59	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	1.5	ND	ND	ND	ND	ND	4.8	ND	ND	ND	ND	ND	0.3	ND	ND
1,3,5-Trimethylbenzene	0.57	1.1	0.66	0.59	0.51	0.96	0.7	2	0.36	0.32	0.42	2	0.73	1.7	0.59	0.97	0.99	1.1
1,3-Dichlorobenzene	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2.3	7	2.9	3	1.5	5.4	1.1	5.2	0.87	ND	1.4	4.6	4.7	8.4	3.2	5	5	7.4
1,4-Dioxane	1.9	4.1	0.21	0.32	0.17	0.25	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	ND
2-Butanone (MEK)	2.4	5	2.1	11	1	19	1	25	1.2	20	2.8	28	3.5	23	7	5.9	12	18
2-Hexanone	ND	ND	ND	0.43	ND	0.14	ND	0.29	ND	ND	0.16	0.25	ND	0.3	ND	0.47	0.2	ND
2-Propanol (Isopropyl Alcohol)	4.9	7.5	6.7	25	1.7	2.3	0.61	1.8	0.64	81	2.6	6.1	3.1	9.5	2.1	5.7	4	13
4-Ethyltoluene	0.64	1.3	0.71	0.61	0.44	1.1	0.47	2.1	0.36	0.4	0.36	1.9	0.65	1.7	0.49	1	0.8	1.3
4-Methyl-2-pentanone	5	1.8	4	1.5	2.1	0.95	0.95	2.5	2.3	0.91	2	4.1	1.7	4	1.1	0.93	1.8	3.2
Acetone	60	10	47	41	15	540	10	1,100	14	83	1,600	310	320	210	150	31	230	150
Acetonitrile	ND	ND	ND	ND	ND	ND	ND	0.71	ND	0.48	ND	ND	ND	0.43	ND	0.55	0.57	ND
Acrolein	0.5	0.27	0.4	2.2		1	0.33	1.1	0.51	6.4	0.58	1.2	0.41	1.3	0.57	2.7	0.86	0.9
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Pinene	0.61	1.2	0.63	3.1	0.26	0.61	0.17	0.98	0.2	3.6	0.13	0.41	0.62	1.3	0.49	1.2	0.6	2.3
Benzene	0.17	0.27	ND	0.66	0.17	0.27	ND	0.26	ND	8.7	0.2	ND	0.18	4	0.25	0.75	0.22	0.47
Carbon Disulfide	ND	0.62	ND	6.9	ND	5.5	3.3	0.3	0.32	21	0.17	0.35	0.24	2.3	22	3.6	0.26	0.41
Carbon Tetrachloride	ND	ND	ND	ND	ND	0.089	ND	ND	ND	0.097	0.083	ND	0.08	ND	0.082	ND	0.082	ND
Chlorobenzene	ND	ND	ND	ND	0.14	ND	ND	0.27	ND	0.29	0.12	ND	0.12	ND	0.12	ND	0.12	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	0.22	ND	0.22	ND	0.22	ND
Chloroform	ND	ND	ND	0.22	ND	ND	ND	ND	ND	0.29	0.19	0.15	0.12	ND	0.12	0.23	0.12	ND
Chloromethane	ND	0.31	ND	0.39	0.28	0.36	ND	0.36	ND	0.97	0.26	ND	0.24	0.29	0.25	0.33	0.25	0.31
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	0.14	ND	0.14	0.41	0.14	ND
Cumene	0.16	0.32	0.16	0.25	0.11	0.39	0.12	0.74	ND	0.4	0.19	0.39	0.2	0.52	0.16	0.24	0.26	0.31
Cyclohexane	ND	0.79	ND	3.7	ND	0.6	ND	0.71	ND	9.6	0.29	0.78	0.28	1.1	0.29	1.2	0.44	0.91
Dichlorodifluoromethane (CFC 12)	0.35	0.39	0.34	0.42	0.36	0.42	0.36	0.4	0.35	0.44	0.35	0.4	0.35	0.4	0.34	0.42	0.34	0.41
d-Limonene	0.47	0.38	0.5	1.7	0.24	0.24	0.2	0.33	0.13	2.9	0.16	0.33	0.56	0.66	0.41	0.84	0.71	1.1
Ethanol	130	41	160	68	80	9.5	18	19	13	160	120	64	140	140	39	26	150	120
Ethyl Acetate	0.4	0.7	ND	85	ND	0.35	1.5	0.5	0.59	370	0.4	ND	0.33	0.77	0.98	33	0.33	3.2
Ethylbenzene	3.6	2.9	3	2	1.5	20	1.5	42	1.4	3	20	12	9.6	10	6.2	5.1	7	6.4
m,p-Xylenes	15	12	12	6.5	6.5	75	6.8	160	5.7	6	82	49	41	44	26	23	28	27
Methyl Methacrylate	ND	ND	ND	0.85	ND	ND	ND	0.61	ND	2.2	0.33	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.16	0.23	ND	1.6	ND	0.2	ND	0.21	ND	12	ND	0.93	ND	0.64	ND	0.73	ND	0.47

TABLE 3
OBSERVATION WELL SOIL VAPOR ANALYTICAL RESULTS SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

Compound	SVE-OBS-1		SVE-OBS-2		SVE-OBS-3		SVE-OBS-4		SVE-OBS-5		SVE-OBS-6		SVE-OBS-7		SVE-OBS-8		SVE-OBS-9	
Sample Date	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**	**2/17/2015**	**6/24/2015**
Naphthalene	0.55	ND	0.41	ND	ND	0.3	ND	ND	ND	0.19	0.19	ND	0.14	ND	0.13	ND	0.29	ND
n-Butyl Acetate	0.15	ND	ND	0.94	ND	0.2	ND	1	ND	2.6	0.41	0.14	0.22	0.28	0.12	0.59	ND	0.14
n-Heptane	ND	0.33	ND	0.6	ND	0.21	ND	0.33	ND	1.6	ND	0.2	ND	0.5	ND	0.34	ND	0.37
n-Hexane	0.35	5.7	0.33	3.3	0.22	3.9	0.18	4.8	ND	2.6	0.15	7.9	0.22	8.1	0.29	3.1	0.36	5.9
n-Nonane	0.27	0.67	0.3	0.55	0.21	0.34	0.15	0.89	0.13	0.98	0.2	0.62	0.3	1	0.22	0.54	0.27	0.68
n-Octane	0.21	0.41	0.19	0.52	ND	0.2	ND	0.48	ND	1.2	ND	0.29	ND	0.66	0.14	0.36	0.13	0.44
n-Propylbenzene	0.31	0.71	0.35	0.39	0.24	0.61	0.26	1.1	0.17	0.37	0.19	0.86	0.35	0.88	0.27	0.52	0.45	0.69
o-Xylene	5.4	5.5	4.7	2.6	2.6	24	3	56	2.1	2.4	25	19	13	15	8.5	7.8	9.7	9.2
Propene	1.7	ND	1.7	ND	1.2	ND	0.75	ND	ND	15	0.28	4	1.5	8.6	2.1	ND	2.1	ND
Styrene	0.17	0.53	0.15	1.2	ND	0.17	ND	0.19	ND	3.4	0.12	ND	0.15	0.44	ND	0.55	0.71	0.62
Tetrachloroethene	ND	1	ND	1.6	ND	1.4	0.089	3.7	0.12	1.8	0.79	8.7	0.22	9.1	0.4	3.6	0.15	6.2
Tetrahydrofuran (THF)	0.4	1.4	0.27	0.86	ND	ND	ND	ND	ND	2.2	0.24	ND	0.74	ND	2.1	ND	3.9	ND
Toluene	8.7	71	7.9	72	2.9	28	1.7	44	1.4	120	18	16	12	57	10	30	12	43
trans-1,2-Dichloroethene	0.29	ND	ND	ND	0.32	ND	ND	ND	0.18	ND	0.17	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	0.16	ND	0.12	ND	ND	ND	0.25	0.26	0.19	ND	0.22	0.091	0.37	ND	0.41
Trichlorofluoromethane	0.18	0.23	0.19	1.6	0.18	0.23	0.2	0.22	0.18	6.8	0.18	0.21	0.19	0.21	0.18	0.57	0.18	0.22
Trichlorotrifluoroethane	ND	ND	ND	ND	0.082	0.45	1.2	0.25	ND	ND	0.092	ND	ND	ND	ND	ND	ND	0.087
Vinyl Acetate	1.1	ND	ND	ND	ND	ND	0.88	ND	1.1	ND	1.3	ND	1.1	ND	0.63	ND	9.7	ND

TABLE 4
SVE SYSTEM RELATIVE VOC CONCENTRATION MONITORING

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

Sample Date	Pre Carbon	Carbon Unit 1	Carbon Unit 2
	PID ppm		
1/26/2015	1.7	0.2	0
2/17/2015	0.4	0	0
3/31/2015	1	0.5	0.2
4/29/2015	0.2	0	0
5/28/2015	1.3	2.9	1.1
6/24/2015	0.8	2.0	0.9
	FID ppm		
1/26/2015	10	0	0
2/17/2015	10	9	9
3/31/2015	12	12	12
4/29/2015	13	9	9
5/28/2015	8	1.2	3
6/24/2015	6.8	13	8.2

Notes:

All results in units of: ppm - parts per million

TABLE 5
SVE SYSTEM EXHAUST ANALYTICAL SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

Compound	Pre Carbon		Post Carbon 1		Post Carbon 2	
Sample Date	2/17/2015	6/24/2015	2/17/2015	6/24/2015	2/17/2015	6/24/2015
1,1,1-Trichloroethane	120	84	ND	110	ND	ND
1,1,2-Trichloroethane	12	ND	ND	ND	ND	ND
1,1-Dichloroethane	12	ND	ND	14	ND	ND
1,1-Dichloroethene	540	310	360	410	ND	1,300
1,2-Dichloroethane	3.3	ND	ND	ND	ND	ND
1,4-Dioxane	6,900	5,900	59	8,000	35	63

Results are in $\mu g/m^3$

TABLE 6
SVE SYSTEM WELL FLOW RATE SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

	SVE-EXT-1	SVE-EXT-2	SVE-EXT-3
Sample Date	**Flow Rate SCFM**		
1/26/2015	82.7	63.4	126.8
2/3/2015	89.7	80.2	125.2
2/10/2015	85.1	69.5	123.6
2/17/2015	87.4	63.4	122.0
3/31/2015	85.1	72.3	122.0
4/29/2015	80.2	69.5	120.3
5/28/2015	82.7	69.5	118.6
6/24/2015	85.1	72.3	120.3

TABLE 7
MONTHLY AMBIENT AIR MONITORING

SVE SYSTEM
Kuhlman Electric Corporation
Crystal Springs, MS

Contaminant	OCCUPATIONAL STANDARDS			AIR MON 01-12	AIR MON 02-12	AIR MON 01-13	AIR MON 02-13	AIR MON 01-14	AIR MON 02-14	AIR MON 01-15	AIR MON 02-15	AIR MON 01-16	AIR MON 02-16	AIR MON 01-17	AIR MON 02-17
Sampling Date	**OSHA**	**ACGIH**	**NIOSH**	**1/26/2015**	**1/26/2015**	**2/17/2015**	**2/17/2015**	**3/31/2015**	**3/31/2015**	**4/29/2015**	**4/29/2015**	**5/28/2015**	**5/28/2015**	**6/24/2015**	**6/24/2015**
1,1,1-Trichloroethane	435,000	435,000	435,000	<0.59	<0.62	<0.63	<0.65	<0.6	<1.4	<0.63	<0.96	<0.66	<0.67	<0.63	<0.66
1,1-Dichloroethene	450,000	60,000	--	<0.59	<0.62	<0.63	<0.65	<0.6	<1.4	<0.63	<0.96	<0.66	<0.67	<0.63	<0.66
1,2,4-Trimethylbenzene	--	860,000	--	2.5	6	6.2	12	22	30	15	5.2	17	22	25	24
1,3,5-Trimethylbenzene	426,000	85,200	215,000	1.5	2.6	2.1	4.1	8.5	9.9	5.8	2.4	5.7	6.8	8	8.7
1,3-Butadiene	2,210	4,400	Ca	<0.76	<0.8	<0.81	<0.84	<0.78	<1.8	<0.81	<1.2	<0.86	<0.87	<0.81	<0.85
1,3-Dichlorobenzene	--	--	--	<0.52	<0.54	<0.56	<0.57	<0.53	<1.2	<0.56	<0.84	<0.59	<0.59	<0.56	<0.58
1,4-Dichlorobenzene	--	--	125,000	45	12	5.2	34	43	23	37	3.2	53	34	92	40
1,4-Dioxane	360000	72000	--	<0.55	<0.58	<0.59	<0.61	<0.56	<1.3	<0.59	<0.90	<0.62	<0.63	<0.59	<0.62
2-Hexanone	410000	--	4000	<0.55	<0.58	<0.59	<0.61	<0.56	<1.3	<0.59	<0.90	<0.62	<0.63	<0.59	<0.62
4-Ethyltoluene	62,900	12,600	31,000	1.7	2.8	2	4.2	8.4	10	5.9	2	5.6	6.7	8.7	10
Acetone	2,400,000	1,187,000	590,000	270	500	510	690	69	2,100	220	230	140	200	530	1,400
Acrolein	250	--	250	0.99	<0.62	0.9	1.7	3.5	5.4	1.2	<0.96	5.2	4.9	1.8	5.3
alpha-Pinene	--	--	--	1.4	1.9	1.9	3	15	7.1	10	10	23	12	15	12
Benzene	3,200	1,600	320	0.64	0.66	0.98	0.93	1	1.3	0.68	<0.90	1.8	1.6	1	0.68
Bromoform	5,000	5,200	5,000	<0.52	<0.54	<0.56	<0.57	<0.53	<1.2	<0.56	<0.84	<0.59	<0.59	<0.56	<0.58
Carbon Disulfide	1,900,000	1,900,000	1,900,000	<0.52	0.64	<0.56	<0.57	2.4	3.2	1.9	<0.84	0.88	11	1.7	5.5
Carbon Tetrachloride	--	Ca	19,800	<0.52	<0.54	<0.56	<0.57	<0.53	<1.2	<0.56	<0.84	<0.59	<0.59	<0.56	<0.58
Chloromethane	207,000	103,000	Ca	<0.52	2.4	0.57	0.76	0.7	<1.2	1.1	1.1	1.1	0.69	0.71	0.87
cis-1,2-Dichloroethene	790,000	793,000	790,000	<0.55	<0.58	<0.59	<0.61	<0.56	<1.3	<0.59	<0.90	<0.62	<0.63	<0.59	<0.62
Cumene	245,000		245,000	<0.52	0.63	0.73	1.1	2	3.8	1.5	<0.84	1.3	1.6	2.2	2.8
Cyclohexane	--	125,000	--	<1	<1.1	1.2	2.1	2	5.7	3.7	2	8	8.6	3.3	2.7
Dichlorodifluoromethane (CFC 12)	4,950,000		4,950,000	2	2	2.1	2.1	2.3	2.2	2.5	2.5	2	2	1.9	1.9
d-Limonene				2.8	1.3	1.2	3.5	9.2	2.7	15	5.9	17	7.5	8	5
Ethanol	1,900,000	--	1,900,000	390	210	180	560	420	510	570	210	1,100	160	540	480
Ethyl Acetate	1,400,000	--	1,400,000	35	55	51	95	6.8	21	3.8	<2.0	170	2	12	12
Ethylbenzene	--	--	--	10	14	23	31	18	120	16	9	12	13	39	110
Isopropyl Alcohol	1,050,000	344,000	1,050,000	11	10	14	36	90	39	47	16	52	12	44	43
m,p-Xylene	750,000	75,360	375,000	39	59	93	130	74	520	73	37	52	60	160	460
Methyl Ethyl Ketone	435,000	435,000	435,000	23	35	10	16	25	24	32	26	15	16	77	85
Methyl Isobutyl Ketone	980,000	--	980,000	6.6	6.6	13	18	25	130	17	6.9	21	8.7	40	130
Methyl Methacrylate	410,000	--	410,000	<1.1	<1.1	<1.1	<1.2	<1.1	<2.5	<1.1	<1.7	<1.2	<1.2	<1.1	1.4
Methylene Chloride	86,750	--	86,750	<0.59	<0.62	<0.63	<0.65	0.62	<1.4	0.77	1.3	1	1.3	1.5	3.6
Naphthalene	50,000	--	50,000	<0.62	<0.65	<0.67	<0.68	<0.63	2.1	<0.67	<1.0	1.1	1.1	1.4	0.9
n-Butyl Acetate	710,000	--	710,000	0.62	1.3	2.7	3.5	<0.56	<1.3	1.3	<0.90	<0.62	<0.63	2.1	6.4
n-Heptane	2,000,000	1,638,000	350,000	<0.59	0.8	0.87	1.1	1.4	1.9	1.4	1.5	6.2	3.1	2.1	1.4

TABLE 7
MONTHLY AMBIENT AIR MONITORING

SVE SYSTEM
Kuhlman Electric Corporation
Crystal Springs, MS

Contaminant	OCCUPATIONAL STANDARDS			AIR MON 01-12	AIR MON 02-12	AIR MON 01-13	AIR MON 02-13	AIR MON 01-14	AIR MON 02-14	AIR MON 01-15	AIR MON 02-15	AIR MON 01-16	AIR MON 02-16	AIR MON 01-17	AIR MON 02-17
Sampling Date	**OSHA**	**ACGIH**	**NIOSH**	**1/26/2015**	**1/26/2015**	**2/17/2015**	**2/17/2015**	**3/31/2015**	**3/31/2015**	**4/29/2015**	**4/29/2015**	**5/28/2015**	**5/28/2015**	**6/24/2015**	**6/24/2015**
n-Hexane	180,000	--	180,000	4.5	2.9	1.6	2.1	1.4	1.3	6.2	6.1	2.3	1.9	26	21
n-Nonane	--	1,050,000	1,050,000	0.63	1.3	1.6	2.7	58	33	5.1	2.8	33	6.8	5.9	6.3
n-Octane	2,350,000	1,400,000	350,000	<0.62	2.1	1.7	2.5	3.7	24	4.2	2.9	7	4.5	3.8	4.1
n-Propylbenzene	--	--	--	0.95	1.5	1.2	2.2	4.8	6.3	3.3	1.2	3	3.6	4.9	5
o-Xylene	435000	435000	435000	13	19	30	41	31	170	28	15	21	24	56	150
Propylene	435,000	435,000	435,000	<0.48	<0.51	2.6	3.3	29	<1.1	<0.52	7.8	<0.55	7.3	16	11
Styrene	590,000	590,000	590,000	<0.52	<0.54	1.6	2.6	4.1	2.5	1.1	<0.84	3.5	0.89	4.2	1
Tetrachloroethene	678,000	169,500	Ca	<0.48	<0.51	2.2	2.7	<0.49	2.8	<0.52	<0.79	<0.55	<0.55	35	25
Tetrahydrofuran (THF)	590,000	--	590,000	<0.69	1.9	2.2	3.8	<0.71	<1.6	16	9.1	<0.78	<0.79	<0.74	<0.78
Toluene	410,000	--	205,000	48	24	33	76	230	860	140	18	50	30	360	88
Trichlorofluoromethane	5,600,000	--	5,600,000	1.2	1.2	1.1	1.2	1.3	<1.4	<0.63	1.2	1.2	1.1	1.1	1.1
Vinyl Acetate	--	35,000	15,000	<2.2	<2.4	<2.4	3.9	<2.3	<5.2	<2.4	<3.7	<2.5	<2.6	<2.4	<2.5

All results are in $\mu g/m^3$

TABLE 8
OBSERVATION WELL VACUUM RESPONSE SUMMARY

SVE System
Kuhlman Electric Corporation
Crystal Springs, MS

Date	**SVE-OBS-1**	**SVE-OBS-2**	**SVE-OBS-3**	**SVE-OBS-4**	**SVE-OBS-5**	**SVE-OBS-6**	**SVE-OBS-7**	**SVE-OBS-8**	**SVE-OBS-9**
Distance* (feet)	**5**	**10**	**20**	**40**	**80**	**40**	**50**	**95**	**80**
3/31/2015	34.2	25.1	14	4.48	2.49	2.25	7.83	0.37	3.7
4/29/2015	34.7	25.5	14.4	4.8	2.8	2.85	8	0.39	3.78

** Distance to the nearest extraction well*
Vacuum readings are in inches of water.

Appendix A

Quarterly Groundwater Laboratory Analytical Results

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

April 17, 2015

Analytical Report for Service Request No: K1503143

Ethan Allen
Environmental Management Services, Inc.
7350 Hwy 98
P.O. Box 15369
Hattiesburg, MS 39402

RE: KEC 1st 2015 GW / KUHO-15-003

Dear Ethan,

Enclosed are the results of the sample(s) submitted to our laboratory March 27, 2015
For your reference, these analyses have been assigned our service request number **K1503143.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3363. You may also contact me via email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa A Domenighini

Lisa Domenighini
Project Manager

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Environmental Management Services, Inc.	**Service Request No.:**	K1503143
Project:	KEC 1st 2015 GW/ KUHO-15-003	**Date Received:**	03/27/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Thirty water samples were received for analysis at ALS Environmental on 03/27/15. The samples were received in good condition and consistent with the accompanying chain of custody form, except where otherwise noted on the cooler receipt form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:
The following analyte was flagged as outside the control criterion for Continuing Calibration Verification (CCV) MS13\0401F004.D: trans-1,3-Dichloropropene. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The ALS minimum relative response factor criterion for Methyl Acetate was not met in Continuing Calibration Verification (CCV) MS13\0401F004.D. In accordance with ALS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question, the data quality was not significantly affected. No further corrective action was appropriate.

The following analyte was flagged as outside the control criterion for Continuing Calibration Verification (CCV) MS27\0401F003.D: 1,1,2,2-Tetrachloroethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) MS27\0401F028.D: Dichlorodifluoromethane and Methyl Acetate. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____ Lisa A Domenighini _____

1,4-Dioxane by Method 8270D

No anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY

45178

001

SR# KH503143

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC 1ST 2015 GW
Project Number: KUHO-15-003
Project Manager: ETHAN E. ALLEN
Company: ENVIRONMENTAL MANAGEMENT SERVICES, INC
Address: P.O. Box 15369 HATTIESBURG, MS 39404
Phone #: 601-544-3674
email: eallen@env-mgt.com
Sampler Signature: [signature]
Sampler Printed Name: Alan Niven

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. KEP-GW-025-024		3-24-15 12:15	W	4	X	X						
2. KEP-GW-027-024		3-24-15 16:10		4	X	X						
3. KEP-GW-BD1-315		3-24-15 17:00		4	X	X						
4. KEP-GW-013-023		3-24-15 17:45		4	X	X						
5. KEP-GW-031-011		3-24-15 18:30		4	X	X						
6. KEP-GW-034-010		3-25-15 10:00		4	X	X						
7. KEP-GW-009-026		3-25-15 11:20		4	X	X						
8. KEP-GW-BD3-315		3-25-15 12:00		4	X	X						
9. KEP-GW-030-011		3-25-15 13:50		4	X	X						
10. KEP-GW-010A-025		3-25-15 15:45		4	X	X						

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

LOW LEVEL FOR 1,4-DIOXANE MRL= 0.5 ug/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
[signature]	[signature]	[signature]	[signature]		
Signature: Alan Niven	Signature: ETHAN E. ALLEN	Signature: ETHAN E. ALLEN	Signature: K Smith	Signature	Signature
Printed Name: EMS	Printed Name: EMS	Printed Name: EMS	Printed Name: ALS	Printed Name	Printed Name
Firm: 3-26-15 1400	Firm: 3/26/15 1400	Firm: 3/26/15 17:00	Firm: 3/27/15 0940	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

ALS Environmental

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SR# H503143

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC 1ST 2015 GW
Project Number: KUHO-15-003
Project Manager: ETHAN E. ALLEN
Company: ENVIRONMENTAL MANAGEMENT SERVICES, INC
Address: P.O. Box 15369 HATTIESBURG, MS 39404
Phone #: 601-544-3674
email: eallen@env-mgt.com
Sampler Signature: [signature]
Sampler Printed Name: Alan Niven

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. KEP-GW-10C-035	11	3-25-15 17:25	W	4	X	X						
2. KEP-GW-10B-035	12	3-25-15 18:30		8	X	X						
3. KEP-GW-032-009	13	3-26-15 9:45		4	X	X						
4. KEP-GW-035-005	14	3-26-15 11:40		4	X	X						
5. KEP-GW-BD5-315	15	3-26-15 8:00		4	X	X						
6. TRIP BLANK 3	14	3/24/15 1215	W	2		2						
7.												
8.												
9.												
10.												

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

LOW LEVEL FOR 1,4-DIOXANE MRL= 0.5 ug/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Alan Niven	Signature: ETHAN E. ALLEN	Signature: ETHAN E. ALLEN	Signature: [signature]	Signature	Signature
Printed Name: EMS	Printed Name: EMS	Printed Name: EMS	Printed Name: ALS	Printed Name	Printed Name
Firm: 3-26-15 1400	Firm: 3/26/15 1400	Firm: 3/26/15 17:00	Firm: 3/27/15 0940	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

ALS Environmental

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SR# H503143

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC 1st 2015 GW
Project Number: KUHO-15-003
Project Manager: ETHAN E. ALLEN
Company: ENVIRONMENTAL MANAGEMENT SERVICES, INC
Address: P.O. Box 15369 HATTIESBURG, MS 39404
Phone #: 601-544-3674
email: eallen@env-mgt.com
Sampler Signature:
Sampler Printed Name:

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. KEP-GW-018A-023	17	3-24-15 10:55	GW	4	1	3						
2. KEP-GW-017A-023	18	3-24-15 13:50	GW	4	1	3						
3. KEP-GW-015A-023	19	3-24-15 15:30	GW	4	1	3						
4. KEP-GW-002-023	20	3-24-15 17:35	GW	4	1	3						
5. KEP-GW-024-023	21	3-25-15 11:10	GW	4	1	3						
6. KEP-GW-022-023	22	3-25-15 14:00	GW	4	1	3						
7. KEP-GW-019-023	23	3-25-15 16:05	GW	4	1	3						
8. KEP-GW-020B-023	24	3-26-15 10:28	GW	8	2	6						
9. KEP-GW-033-009	25	3-26-15 12:00	GW	8	2	6						
10.												

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

LOW LEVEL FOR 1,4-DIOXANE MRL= 0.5 ug/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: PAUL MARTIN	Signature: ETHAN E. ALLEN	Signature: ETHAN E. ALLEN	Signature: K Smith	Signature	Signature
Printed Name: EMS, Inc.	Printed Name: EMS	Printed Name: EMS	Printed Name: ALS	Printed Name	Printed Name
Firm: 3-26-15 13:24	Firm: 3/26/15 13:24	Firm: 3/26/15 17:00	Firm: 3/27/15 0940	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

ALS Environmental

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SR# K1503143

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC 1st 2015 GW
Project Number: KUHO-15-003
Project Manager: ETHAN E. ALLEN
Company: ENVIRONMENTAL MANAGEMENT SERVICES, INC
Address: P.O. Box 15369 HATTIESBURG, MS 39404
Phone #: 601-544-3674
email: ealler@env-mgt.com
Sampler Signature:
Sampler Printed Name: ETHAN E. ALLEN

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. KEP-GW-028-014	26	3/24/15	10:30	GW	4	1	3						
2. KEP-GW-026-024	27	3/24/15	12:15	GW	4	1	3						
3. KEP-GW-029-014	28	3/24/15	14:10	GW	4	1	3						
4. KEP-GW-08-028	29	3/24/15	1530	GW	4	1	3						
5. KEP-GW-BD2-315	30	3/24/15	0800	GW	4	1	3						
6.													
7.													
8.													
9.													
10.													

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___24 hr. ___48 hr.
___5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

LOW LEVEL FOR 1,4-DIOXANE MRL= 0.5 ug/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: ETHAN E. ALLEN	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name: EMS	Printed Name: ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: 3/26/15 17:00	Firm: 3/27/15 0940	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

PC LISA

Cooler Receipt and Preservation Form

Client EMS Service Request K15 03143

Received: 3/27/15 Opened: 3/27/15 By: KD Unloaded: 3/27/15 By: KD

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
.0	.0	-.2	-.2	.0	356		77322731 1848	
-.3	-.3	.5	.5	0	322		77322731 0900	
-.5	-.6	.2	.1	-.1	316		77322731 0110	
-.4	-.5	.0	-.1	-.1	350		77322731 1995	
-.2	-.1	1.7	1.8	+.1	347		77322731 1403	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Did not receive KEP-GW-BDT-315 (3/24/15 1700)

Page 1 ***of*** 2

PC Lisa

Cooler Receipt and Preservation Form

Client EMS Service Request K15 03143

Received: 3/27/15 Opened: 3/27/15 By: KD Unloaded: 3/27/15 By: KD

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-.2	-.2	.5	.5	0	298		7732 2731 0500	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N *
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N *
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: * See page 1

Page 2 *of* 2

Volatile Organic Compounds

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-025-024	**Units:**	ug/L
Lab Code:	K1503143-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**3.1**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-025-024	**Units:**	ug/L
Lab Code:	K1503143-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	78	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-027-024	**Units:**	ug/L
Lab Code:	K1503143-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-027-024	**Units:**	ug/L
Lab Code:	K1503143-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-013-023	**Units:**	ug/L
Lab Code:	K1503143-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**0.59**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	**0.57**		0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-013-023	**Units:**	ug/L
Lab Code:	K1503143-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	77	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-031-011	**Units:**	ug/L
Lab Code:	K1503143-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**3.3**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-031-011	**Units:**	ug/L
Lab Code:	K1503143-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/01/15	Acceptable
Toluene-d8	92	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	77	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-034-010	**Units:**	ug/L
Lab Code:	K1503143-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**18**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-034-010	**Units:**	ug/L
Lab Code:	K1503143-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	92	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-009-026	**Units:**	ug/L
Lab Code:	K1503143-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**7.2**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-009-026	**Units:**	ug/L
Lab Code:	K1503143-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	91	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD3-315	**Units:**	ug/L
Lab Code:	K1503143-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**40**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	**1.3**		0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	**2.9**		0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD3-315	**Units:**	ug/L
Lab Code:	K1503143-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/01/15	Acceptable
Toluene-d8	96	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	87	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-030-011	**Units:**	ug/L
Lab Code:	K1503143-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**39**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	**1.3**		0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	**2.9**		0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-030-011	**Units:**	ug/L
Lab Code:	K1503143-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/01/15	Acceptable
Toluene-d8	94	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	90	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010A-025	**Units:**	ug/L
Lab Code:	K1503143-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**41**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	**1.6**		0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	**0.57**		0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	**0.52**		0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	**1.8**		0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	**5.0**		0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010A-025	**Units:**	ug/L
Lab Code:	K1503143-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	88	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-10C-025	**Units:**	ug/L
Lab Code:	K1503143-011	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	**0.92**		0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-10C-025	**Units:**	ug/L
Lab Code:	K1503143-011	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	88	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-10B-025	**Units:**	ug/L
Lab Code:	K1503143-012	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**4.5**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-10B-025	**Units:**	ug/L
Lab Code:	K1503143-012	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/02/15	Acceptable
Toluene-d8	91	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	78	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-032-009	**Units:**	ug/L
Lab Code:	K1503143-013	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**49**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-032-009	**Units:**	ug/L
Lab Code:	K1503143-013	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	73-122	04/02/15	Acceptable
Toluene-d8	90	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-035-005	**Units:**	ug/L
Lab Code:	K1503143-014	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**170**	D	2.5	5	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	**10**		0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	**0.60**		0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	**3.2**		0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	**140**	D	2.5	5	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	**18**		0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	**2.5**		0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	**59**		0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-035-005	**Units:**	ug/L
Lab Code:	K1503143-014	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/02/15	Acceptable
Toluene-d8	90	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	77	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD5-315	**Units:**	ug/L
Lab Code:	K1503143-015	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**48**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD5-315	**Units:**	ug/L
Lab Code:	K1503143-015	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/02/15	Acceptable
Toluene-d8	92	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	78	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	Trip Blank 3	**Units:**	ug/L
Lab Code:	K1503143-016	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	Trip Blank 3	**Units:**	ug/L
Lab Code:	K1503143-016	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	04/01/15	Acceptable
Toluene-d8	92	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	80	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-018A-023	**Units:**	ug/L
Lab Code:	K1503143-017	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**17**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-018A-023	**Units:**	ug/L
Lab Code:	K1503143-017	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/01/15	Acceptable
Toluene-d8	93	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-017A-023	**Units:**	ug/L
Lab Code:	K1503143-018	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**30**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-017A-023	**Units:**	ug/L
Lab Code:	K1503143-018	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-015A-023	**Units:**	ug/L
Lab Code:	K1503143-019	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**54**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	**1.8**		0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	**0.55**		0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	**1.1**		0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	**3.0**		0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-015A-023	**Units:**	ug/L
Lab Code:	K1503143-019	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	04/01/15	Acceptable
Toluene-d8	92	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-002-028	**Units:**	ug/L
Lab Code:	K1503143-020	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	**32**		0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	**1.6**		0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	**0.60**		0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-002-028	**Units:**	ug/L
Lab Code:	K1503143-020	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-024-023	**Units:**	ug/L
Lab Code:	K1503143-021	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**4.4**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-024-023	**Units:**	ug/L
Lab Code:	K1503143-021	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	04/02/15	Acceptable
Toluene-d8	92	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	78	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-022-023	**Units:**	ug/L
Lab Code:	K1503143-022	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-022-023	**Units:**	ug/L
Lab Code:	K1503143-022	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/02/15	Acceptable
Toluene-d8	91	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	78	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-019-023	**Units:**	ug/L
Lab Code:	K1503143-023	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**11**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	**0.73**		0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-019-023	**Units:**	ug/L
Lab Code:	K1503143-023	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/02/15	Acceptable
Toluene-d8	90	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	77	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-020B-023	**Units:**	ug/L
Lab Code:	K1503143-024	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**4.8**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-020B-023	**Units:**	ug/L
Lab Code:	K1503143-024	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/02/15	Acceptable
Toluene-d8	93	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-033-009	**Units:**	ug/L
Lab Code:	K1503143-025	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	**0.60**		0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-033-009	**Units:**	ug/L
Lab Code:	K1503143-025	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	04/02/15	Acceptable
Toluene-d8	90	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	77	68-117	04/02/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-028-014	**Units:**	ug/L
Lab Code:	K1503143-026	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**0.77**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-028-014	**Units:**	ug/L
Lab Code:	K1503143-026	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	89	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-026-024	**Units:**	ug/L
Lab Code:	K1503143-027	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**8.9**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-026-024	**Units:**	ug/L
Lab Code:	K1503143-027	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	91	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-029-014	**Units:**	ug/L
Lab Code:	K1503143-028	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**0.83**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-029-014	**Units:**	ug/L
Lab Code:	K1503143-028	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	88	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-08-028	**Units:**	ug/L
Lab Code:	K1503143-029	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**1.8**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-08-028	**Units:**	ug/L
Lab Code:	K1503143-029	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/01/15	Acceptable
Toluene-d8	95	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	88	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD2-315	**Units:**	ug/L
Lab Code:	K1503143-030	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	**0.81**		0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-BD2-315	**Units:**	ug/L
Lab Code:	K1503143-030	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	04/01/15	Acceptable
Toluene-d8	97	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	87	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502727-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502727	*
1,1-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	*
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502727	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502727-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502727	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502727	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	04/01/15	Acceptable
Toluene-d8	96	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	88	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502730-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Vinyl Chloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromomethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Chloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichlorofluoromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methyl Acetate	ND	U	1.0	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Acetone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Carbon Disulfide	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Methylene Chloride	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1-Dichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Butanone (MEK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Chloroform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Carbon Tetrachloride	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Benzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Trichloroethene (TCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dichloropropane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromodichloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Toluene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,1,2-Trichloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
2-Hexanone	ND	U	20	1	04/01/15	04/01/15	KWG1502730	
Dibromochloromethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
Chlorobenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502730-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
m,p-Xylenes	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
o-Xylene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Styrene	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Bromoform	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
Isopropylbenzene	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/01/15	04/01/15	KWG1502730	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/01/15	04/01/15	KWG1502730	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	04/01/15	Acceptable
Toluene-d8	91	65-144	04/01/15	Acceptable
4-Bromofluorobenzene	81	68-117	04/01/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502759-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	*
Chloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Vinyl Chloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromomethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Chloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichlorofluoromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methyl Acetate	ND	U	1.0	1	04/02/15	04/02/15	KWG1502759	*
1,1-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Acetone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Carbon Disulfide	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Methylene Chloride	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1-Dichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Butanone (MEK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Chloroform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Carbon Tetrachloride	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Benzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Trichloroethene (TCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dichloropropane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromodichloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Toluene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,1,2-Trichloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Tetrachloroethene (PCE)	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
2-Hexanone	ND	U	20	1	04/02/15	04/02/15	KWG1502759	
Dibromochloromethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
Chlorobenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502759-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
m,p-Xylenes	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
o-Xylene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Styrene	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Bromoform	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
Isopropylbenzene	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/02/15	04/02/15	KWG1502759	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	04/02/15	04/02/15	KWG1502759	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	04/02/15	Acceptable
Toluene-d8	92	65-144	04/02/15	Acceptable
4-Bromofluorobenzene	79	68-117	04/02/15	Acceptable

Comments:

QA/QC Report

Client: Environmental Management Services, Inc. **Service Request:** K1503143
Project: KEC 1st 2015 GW/KUHO-15-003
Sample Matrix: Water

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B **Units:** Percent
Analysis Method: 8260C **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
KEP-GW-025-024	K1503143-001	104	91	78
KEP-GW-027-024	K1503143-002	107	91	79
KEP-GW-013-023	K1503143-004	105	91	77
KEP-GW-031-011	K1503143-005	106	92	77
KEP-GW-034-010	K1503143-006	91	95	92
KEP-GW-009-026	K1503143-007	94	95	91
KEP-GW-BD3-315	K1503143-008	95	96	87
KEP-GW-030-011	K1503143-009	95	94	90
KEP-GW-010A-025	K1503143-010	92	95	88
KEP-GW-10C-025	K1503143-011	93	95	88
KEP-GW-10B-025	K1503143-012	106	91	78
KEP-GW-032-009	K1503143-013	103	90	79
KEP-GW-035-005	K1503143-014	106	90	77
KEP-GW-BD5-315	K1503143-015	104	92	78
Trip Blank 3	K1503143-016	105	92	80
KEP-GW-018A-023	K1503143-017	106	93	79
KEP-GW-017A-023	K1503143-018	106	91	79
KEP-GW-015A-023	K1503143-019	106	92	79
KEP-GW-002-028	K1503143-020	105	91	79
KEP-GW-024-023	K1503143-021	105	92	78
KEP-GW-022-023	K1503143-022	104	91	78
KEP-GW-019-023	K1503143-023	104	90	77
KEP-GW-020B-023	K1503143-024	104	93	79
KEP-GW-033-009	K1503143-025	104	90	77
KEP-GW-028-014	K1503143-026	94	95	89
KEP-GW-026-024	K1503143-027	94	95	91
KEP-GW-029-014	K1503143-028	95	95	88
KEP-GW-08-028	K1503143-029	95	95	88
KEP-GW-BD2-315	K1503143-030	94	97	87
Method Blank	KWG1502727-5	93	96	88
Method Blank	KWG1502730-4	102	91	81
Method Blank	KWG1502759-4	105	92	79
KEP-GW-10C-025MS	KWG1502727-1	93	98	93
KEP-GW-10C-025DMS	KWG1502727-2	93	96	94
KEP-GW-033-009MS	KWG1502759-5	96	93	89

Surrogate Recovery Control Limits (%)

Sur1	=	Dibromofluoromethane	73-122
Sur2	=	Toluene-d8	65-144
Sur3	=	4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Environmental Management Services, Inc. **Service Request:** K1503143
Project: KEC 1st 2015 GW/KUHO-15-003
Sample Matrix: Water

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B **Units:** Percent
Analysis Method: 8260C **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
KEP-GW-033-009DMS	KWG1502759-6	96	93	88
Lab Control Sample	KWG1502727-3	94	97	93
Duplicate Lab Control Sample	KWG1502727-4	94	97	93
Lab Control Sample	KWG1502730-3	98	96	88
Lab Control Sample	KWG1502759-3	96	95	91

Surrogate Recovery Control Limits (%)

Sur1	=	Dibromofluoromethane	73-122
Sur2	=	Toluene-d8	65-144
Sur3	=	4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	KEP-GW-10C-025	**Units:**	ug/L
Lab Code:	K1503143-011	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C	**Extraction Lot:**	KWG1502727

		KEP-GW-10C-025MS KWG1502727-1 Matrix Spike			KEP-GW-10C-025DMS KWG1502727-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Vinyl Chloride	ND	12.8	10.0	128	11.3	10.0	113	49-136	13	30
1,1-Dichloroethene	ND	12.9	10.0	129	11.5	10.0	115	59-171	11	30
Chloroform	ND	11.8	10.0	118	10.6	10.0	106	64-133	11	30
Carbon Tetrachloride	ND	10.4	10.0	104	9.33	10.0	93	53-161	11	30
Benzene	ND	11.5	10.0	115	10.4	10.0	104	63-144	10	30
Trichloroethene (TCE)	ND	11.6	10.0	116	10.5	10.0	105	53-139	10	30
Bromodichloromethane	ND	10.6	10.0	106	9.57	10.0	96	61-134	10	30
Toluene	ND	11.2	10.0	112	10.1	10.0	101	71-136	10	30
1,1,2-Trichloroethane	ND	11.1	10.0	111	10.1	10.0	101	74-124	10	30
2-Hexanone	ND	56.3	50.0	113	49.1	50.0	98	53-132	14	30
Chlorobenzene	ND	11.2	10.0	112	10.1	10.0	101	69-126	10	30
Ethylbenzene	ND	11.3	10.0	113	10.3	10.0	103	66-136	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015 - 04/02/2015

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	KEP-GW-033-009	**Units:**	ug/L
Lab Code:	K1503143-025	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C	**Extraction Lot:**	KWG1502759

		KEP-GW-033-009MS KWG1502759-5 Matrix Spike			KEP-GW-033-009DMS KWG1502759-6 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Vinyl Chloride	ND	8.68	10.0	87	8.17	10.0	82	49-136	6	30
1,1-Dichloroethene	0.60	9.83	10.0	92	9.27	10.0	87	59-171	6	30
Chloroform	ND	9.71	10.0	97	9.34	10.0	93	64-133	4	30
Carbon Tetrachloride	ND	8.58	10.0	86	8.07	10.0	81	53-161	6	30
Benzene	ND	8.96	10.0	90	8.56	10.0	86	63-144	5	30
Trichloroethene (TCE)	ND	8.46	10.0	85	8.11	10.0	81	53-139	4	30
Bromodichloromethane	ND	9.42	10.0	94	8.97	10.0	90	61-134	5	30
Toluene	ND	8.48	10.0	85	8.13	10.0	81	71-136	4	30
1,1,2-Trichloroethane	ND	10.0	10.0	100	9.99	10.0	100	74-124	0	30
2-Hexanone	ND	45.8	50.0	92	45.7	50.0	91	53-132	0	30
Chlorobenzene	ND	8.94	10.0	89	8.43	10.0	84	69-126	6	30
Ethylbenzene	ND	8.20	10.0	82	7.68	10.0	77	66-136	7	30

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Environmental Management Services, Inc.
Project: KEC 1st 2015 GW/KUHO-15-003
Sample Matrix: Water

Service Request: K1503143
Date Extracted: 04/01/2015
Date Analyzed: 04/01/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1502727

	Lab Control Sample KWG1502727-3 Lab Control Spike			Duplicate Lab Control Sample KWG1502727-4 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane	9.80	10.0	98	9.03	10.0	90	32-124	8	30
Chloromethane	11.0	10.0	110	9.82	10.0	98	34-130	11	30
Vinyl Chloride	11.1	10.0	111	10.0	10.0	100	55-123	10	30
Bromomethane	9.41	10.0	94	8.65	10.0	87	35-113	8	30
Chloroethane	12.2	10.0	122	11.1	10.0	111	58-134	9	30
Trichlorofluoromethane	9.77	10.0	98	8.89	10.0	89	52-141	9	30
Methyl Acetate	11.6	10.0	116	11.2	10.0	112	70-130	4	30
1,1-Dichloroethene	11.2	10.0	112	10.3	10.0	103	66-129	8	30
Acetone	61.2	50.0	122	55.3	50.0	111	68-135	10	30
Carbon Disulfide	22.3	20.0	112	19.5	20.0	98	46-144	13	30
Methylene Chloride	9.39	10.0	94	8.69	10.0	87	71-122	8	30
Methyl tert-Butyl Ether	9.97	10.0	100	9.40	10.0	94	54-126	6	30
trans-1,2-Dichloroethene	10.8	10.0	108	9.73	10.0	97	67-125	10	30
1,1-Dichloroethane	11.7	10.0	117	10.6	10.0	106	68-132	9	30
cis-1,2-Dichloroethene	10.3	10.0	103	9.34	10.0	93	71-118	10	30
2-Butanone (MEK)	54.4	50.0	109	51.3	50.0	103	71-149	6	30
Chloroform	10.9	10.0	109	10.1	10.0	101	70-129	8	30
1,1,1-Trichloroethane (TCA)	9.28	10.0	93	8.59	10.0	86	59-136	8	30
Carbon Tetrachloride	8.96	10.0	90	8.25	10.0	83	55-140	8	30
Benzene	10.4	10.0	104	9.58	10.0	96	69-124	8	30
1,2-Dichloroethane (EDC)	11.2	10.0	112	10.6	10.0	106	56-142	6	30
Trichloroethene (TCE)	10.4	10.0	104	9.51	10.0	95	67-128	8	30
1,2-Dichloropropane	10.3	10.0	103	9.65	10.0	97	67-126	7	30
Bromodichloromethane	9.74	10.0	97	8.93	10.0	89	63-129	9	30
cis-1,3-Dichloropropene	8.31	10.0	83	7.76	10.0	78	62-132	7	30
4-Methyl-2-pentanone (MIBK)	50.6	50.0	101	46.5	50.0	93	64-134	8	30
Toluene	10.1	10.0	101	9.41	10.0	94	69-124	7	30
trans-1,3-Dichloropropene	7.03	10.0	70	6.56	10.0	66	59-125	7	30
1,1,2-Trichloroethane	10.5	10.0	105	9.77	10.0	98	74-118	7	30
Tetrachloroethene (PCE)	9.75	10.0	98	9.08	10.0	91	62-126	7	30
2-Hexanone	51.7	50.0	103	48.0	50.0	96	59-131	7	30
Dibromochloromethane	8.81	10.0	88	8.32	10.0	83	67-126	6	30
1,2-Dibromoethane (EDB)	9.47	10.0	95	8.93	10.0	89	74-118	6	30
Chlorobenzene	10.1	10.0	101	9.37	10.0	94	72-116	7	30
Ethylbenzene	10.2	10.0	102	9.41	10.0	94	67-121	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502727

	Lab Control Sample KWG1502727-3 Lab Control Spike			Duplicate Lab Control Sample KWG1502727-4 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
m,p-Xylenes	20.8	20.0	104	19.0	20.0	95	69-121	9	30
o-Xylene	9.82	10.0	98	9.15	10.0	92	71-119	7	30
Styrene	10.4	10.0	104	9.59	10.0	96	74-121	8	30
Bromoform	8.00	10.0	80	7.46	10.0	75	52-144	7	30
Isopropylbenzene	9.98	10.0	100	9.38	10.0	94	67-129	6	30
1,1,2,2-Tetrachloroethane	11.3	10.0	113	10.2	10.0	102	70-127	10	30
1,2-Dibromo-3-chloropropane	8.32	10.0	83	7.71	10.0	77	55-132	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502730

	Lab Control Sample KWG1502730-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	6.91	10.0	69	32-124
Chloromethane	8.42	10.0	84	34-130
Vinyl Chloride	7.97	10.0	80	55-123
Bromomethane	9.04	10.0	90	35-113
Chloroethane	9.63	10.0	96	58-134
Trichlorofluoromethane	6.71	10.0	67	52-141
Methyl Acetate	8.19	10.0	82	70-130
1,1-Dichloroethene	8.48	10.0	85	66-129
Acetone	59.2	50.0	118	68-135
Carbon Disulfide	18.6	20.0	93	46-144
Methylene Chloride	8.29	10.0	83	71-122
Methyl tert-Butyl Ether	8.59	10.0	86	54-126
trans-1,2-Dichloroethene	8.50	10.0	85	67-125
1,1-Dichloroethane	9.58	10.0	96	68-132
cis-1,2-Dichloroethene	8.48	10.0	85	71-118
2-Butanone (MEK)	48.0	50.0	96	71-149
Chloroform	9.40	10.0	94	70-129
1,1,1-Trichloroethane (TCA)	7.90	10.0	79	59-136
Carbon Tetrachloride	7.78	10.0	78	55-140
Benzene	8.41	10.0	84	69-124
1,2-Dichloroethane (EDC)	9.68	10.0	97	56-142
Trichloroethene (TCE)	8.08	10.0	81	67-128
1,2-Dichloropropane	9.14	10.0	91	67-126
Bromodichloromethane	8.91	10.0	89	63-129
cis-1,3-Dichloropropene	7.39	10.0	74	62-132
4-Methyl-2-pentanone (MIBK)	44.9	50.0	90	64-134
Toluene	7.99	10.0	80	69-124
trans-1,3-Dichloropropene	6.82	10.0	68	59-125
1,1,2-Trichloroethane	9.67	10.0	97	74-118
Tetrachloroethene (PCE)	8.00	10.0	80	62-126
2-Hexanone	45.9	50.0	92	59-131
Dibromochloromethane	8.88	10.0	89	67-126
1,2-Dibromoethane (EDB)	7.95	10.0	80	74-118
Chlorobenzene	8.44	10.0	84	72-116
Ethylbenzene	7.52	10.0	75	67-121

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502730

	Lab Control Sample KWG1502730-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
m,p-Xylenes	16.3	20.0	82	69-121
o-Xylene	7.70	10.0	77	71-119
Styrene	8.03	10.0	80	74-121
Bromoform	8.15	10.0	82	52-144
Isopropylbenzene	7.58	10.0	76	67-129
1,1,2,2-Tetrachloroethane	11.3	10.0	113	70-127
1,2-Dibromo-3-chloropropane	8.38	10.0	84	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502759

	Lab Control Sample KWG1502759-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	7.74	10.0	77	32-124
Chloromethane	8.84	10.0	88	34-130
Vinyl Chloride	8.60	10.0	86	55-123
Bromomethane	9.39	10.0	94	35-113
Chloroethane	10.4	10.0	104	58-134
Trichlorofluoromethane	7.28	10.0	73	52-141
Methyl Acetate	8.28	10.0	83	70-130
1,1-Dichloroethene	8.98	10.0	90	66-129
Acetone	60.7	50.0	121	68-135
Carbon Disulfide	20.1	20.0	101	46-144
Methylene Chloride	8.50	10.0	85	71-122
Methyl tert-Butyl Ether	8.86	10.0	89	54-126
trans-1,2-Dichloroethene	9.26	10.0	93	67-125
1,1-Dichloroethane	10.1	10.0	101	68-132
cis-1,2-Dichloroethene	8.78	10.0	88	71-118
2-Butanone (MEK)	49.2	50.0	98	71-149
Chloroform	9.67	10.0	97	70-129
1,1,1-Trichloroethane (TCA)	8.51	10.0	85	59-136
Carbon Tetrachloride	8.46	10.0	85	55-140
Benzene	8.73	10.0	87	69-124
1,2-Dichloroethane (EDC)	10.0	10.0	100	56-142
Trichloroethene (TCE)	8.93	10.0	89	67-128
1,2-Dichloropropane	9.41	10.0	94	67-126
Bromodichloromethane	9.33	10.0	93	63-129
cis-1,3-Dichloropropene	7.54	10.0	75	62-132
4-Methyl-2-pentanone (MIBK)	46.0	50.0	92	64-134
Toluene	8.56	10.0	86	69-124
trans-1,3-Dichloropropene	7.00	10.0	70	59-125
1,1,2-Trichloroethane	10.0	10.0	100	74-118
Tetrachloroethene (PCE)	8.58	10.0	86	62-126
2-Hexanone	47.2	50.0	94	59-131
Dibromochloromethane	9.07	10.0	91	67-126
1,2-Dibromoethane (EDB)	8.10	10.0	81	74-118
Chlorobenzene	8.80	10.0	88	72-116
Ethylbenzene	7.93	10.0	79	67-121

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	04/01/2015
Sample Matrix:	Water	**Date Analyzed:**	04/01/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502759

	Lab Control Sample KWG1502759-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
m,p-Xylenes	16.9	20.0	85	69-121
o-Xylene	7.99	10.0	80	71-119
Styrene	8.16	10.0	82	74-121
Bromoform	8.55	10.0	86	52-144
Isopropylbenzene	8.04	10.0	80	67-129
1,1,2,2-Tetrachloroethane	10.7	10.0	107	70-127
1,2-Dibromo-3-chloropropane	8.76	10.0	88	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1,4-Dioxane by GC/MS

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Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-025-024	**Units:**	ug/L
Lab Code:	K1503143-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	77	48-118	04/07/15	Acceptable

Comments:

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Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-027-024	**Units:**	ug/L
Lab Code:	K1503143-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	75	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-013-023	**Units:**	ug/L
Lab Code:	K1503143-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	72	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-031-011	**Units:**	ug/L
Lab Code:	K1503143-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	77	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-034-010	**Units:**	ug/L
Lab Code:	K1503143-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**3.4**		0.50	1	03/31/15	04/09/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	89	48-118	04/09/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-009-026	**Units:**	ug/L
Lab Code:	K1503143-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	87	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-BD3-315	**Units:**	ug/L
Lab Code:	K1503143-008	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.2**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	80	48-118	04/10/15	Acceptable

Comments:

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Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-030-011	**Units:**	ug/L
Lab Code:	K1503143-009	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.2**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	84	48-118	04/10/15	Acceptable

Comments:

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Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-010A-025	**Units:**	ug/L
Lab Code:	K1503143-010	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**5.8**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	81	48-118	04/10/15	Acceptable

Comments:

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Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-10C-025	**Units:**	ug/L
Lab Code:	K1503143-011	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	90	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-10B-025	**Units:**	ug/L
Lab Code:	K1503143-012	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.87**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	84	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-032-009	**Units:**	ug/L
Lab Code:	K1503143-013	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.2**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	81	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-035-005	**Units:**	ug/L
Lab Code:	K1503143-014	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**6.3**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	79	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-BD5-315	**Units:**	ug/L
Lab Code:	K1503143-015	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.0**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	72	48-118	04/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-018A-023	**Units:**	ug/L
Lab Code:	K1503143-017	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.2**		0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	71	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-017A-023	**Units:**	ug/L
Lab Code:	K1503143-018	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.5**		0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	71	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-015A-023	**Units:**	ug/L
Lab Code:	K1503143-019	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**6.8**		0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	73	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-002-028	**Units:**	ug/L
Lab Code:	K1503143-020	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**7.3**		0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	79	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-024-023	**Units:**	ug/L
Lab Code:	K1503143-021	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	73	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-022-023	**Units:**	ug/L
Lab Code:	K1503143-022	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	79	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/25/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-019-023	**Units:**	ug/L
Lab Code:	K1503143-023	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.73**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	89	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-020B-023	**Units:**	ug/L
Lab Code:	K1503143-024	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.76**		0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	81	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/26/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-033-009	**Units:**	ug/L
Lab Code:	K1503143-025	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/10/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	80	48-118	04/10/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-028-014	**Units:**	ug/L
Lab Code:	K1503143-026	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	71	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-026-024	**Units:**	ug/L
Lab Code:	K1503143-027	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**2.4**		0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	73	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-029-014	**Units:**	ug/L
Lab Code:	K1503143-028	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	75	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-08-028	**Units:**	ug/L
Lab Code:	K1503143-029	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	70	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	03/24/2015
Sample Matrix:	Water	**Date Received:**	03/27/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-BD2-315	**Units:**	ug/L
Lab Code:	K1503143-030	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	72	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,4-Dioxane by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502660-7	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/07/15	KWG1502660	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	70	48-118	04/07/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,4-Dioxane by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1502691-7	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	03/31/15	04/09/15	KWG1502691	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	94	48-118	04/09/15	Acceptable

Comments:

Client: Environmental Management Services, Inc. **Service Request:** K1503143
Project: KEC 1st 2015 GW/KUHO-15-003
Sample Matrix: Water

Surrogate Recovery Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C **Units:** Percent
Analysis Method: 8270D SIM **Level:** Low

Sample Name	Lab Code	Sur1
Batch QC	K1503142-022	58
KEP-GW-025-024	K1503143-001	77
KEP-GW-027-024	K1503143-002	75
KEP-GW-013-023	K1503143-004	72
KEP-GW-031-011	K1503143-005	77
KEP-GW-034-010	K1503143-006	89
KEP-GW-009-026	K1503143-007	87
KEP-GW-BD3-315	K1503143-008	80
KEP-GW-030-011	K1503143-009	84
KEP-GW-010A-025	K1503143-010	81
KEP-GW-10C-025	K1503143-011	90
KEP-GW-10B-025	K1503143-012	84
KEP-GW-032-009	K1503143-013	81
KEP-GW-035-005	K1503143-014	79
KEP-GW-BD5-315	K1503143-015	72
KEP-GW-018A-023	K1503143-017	71
KEP-GW-017A-023	K1503143-018	71
KEP-GW-015A-023	K1503143-019	73
KEP-GW-002-028	K1503143-020	79
KEP-GW-024-023	K1503143-021	73
KEP-GW-022-023	K1503143-022	79
KEP-GW-019-023	K1503143-023	89
KEP-GW-020B-023	K1503143-024	81
KEP-GW-033-009	K1503143-025	80
KEP-GW-028-014	K1503143-026	71
KEP-GW-026-024	K1503143-027	73
KEP-GW-029-014	K1503143-028	75
KEP-GW-08-028	K1503143-029	70
KEP-GW-BD2-315	K1503143-030	72
Method Blank	KWG1502660-7	70
Method Blank	KWG1502691-7	94
Batch QCMS	KWG1502660-3	71
Batch QCDMS	KWG1502660-4	72
KEP-GW-10B-025MS	KWG1502691-1	81

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 48-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: Environmental Management Services, Inc. **Service Request:** K1503143
Project: KEC 1st 2015 GW/KUHO-15-003
Sample Matrix: Water

Surrogate Recovery Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C **Units:** Percent
Analysis Method: 8270D SIM **Level:** Low

Sample Name	Lab Code	Sur1
KEP-GW-10B-025DMS	KWG1502691-2	78
KEP-GW-033-009MS	KWG1502691-3	84
KEP-GW-033-009DMS	KWG1502691-4	81
Lab Control Sample	KWG1502660-5	72
Duplicate Lab Control Sample	KWG1502660-6	69
Lab Control Sample	KWG1502691-5	88
Duplicate Lab Control Sample	KWG1502691-6	77

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 48-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	03/31/2015
Sample Matrix:	Water	**Date Analyzed:**	04/07/2015

Matrix Spike/Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1503142-022	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1502660

		Batch QCMS KWG1502660-3 Matrix Spike			Batch QCDMS KWG1502660-4 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	ND	16.2	25.0	65	15.9	25.0	64	33-127	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	03/31/2015
Sample Matrix:	Water	**Date Analyzed:**	04/09/2015

Matrix Spike/Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-10B-025	**Units:**	ug/L
Lab Code:	K1503143-012	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1502691

		KEP-GW-10B-025MS KWG1502691-1 Matrix Spike			KEP-GW-10B-025DMS KWG1502691-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	0.87	17.8	25.0	68	18.6	25.0	71	33-127	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	03/31/2015
Sample Matrix:	Water	**Date Analyzed:**	04/09/2015

Matrix Spike/Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-033-009	**Units:**	ug/L
Lab Code:	K1503143-025	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1502691

		KEP-GW-033-009MS KWG1502691-3 Matrix Spike			KEP-GW-033-009DMS KWG1502691-4 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	ND	19.1	25.0	76	19.1	25.0	76	33-127	0	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	03/31/2015
Sample Matrix:	Water	**Date Analyzed:**	04/07/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
1,4-Dioxane by GC/MS

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502660

	Lab Control Sample KWG1502660-5 Lab Control Spike			Duplicate Lab Control Sample KWG1502660-6 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	15.7	25.0	63	15.5	25.0	62	52-111	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1503143
Project:	KEC 1st 2015 GW/KUHO-15-003	**Date Extracted:**	03/31/2015
Sample Matrix:	Water	**Date Analyzed:**	04/09/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
1,4-Dioxane by GC/MS

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1502691

	Lab Control Sample KWG1502691-5 Lab Control Spike			Duplicate Lab Control Sample KWG1502691-6 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	20.2	25.0	81	16.2	25.0	65	52-111	22	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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June 22, 2015

Analytical Report for Service Request No: K1506055

Ethan Allen
Environmental Management Services, Inc.
7350 Hwy 98
P.O. Box 15369
Hattiesburg, MS 39402

RE: KEC Quarterly

Dear Ethan,

Enclosed are the results of the sample(s) submitted to our laboratory June 04, 2015
For your reference, these analyses have been assigned our service request number **K1506055.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3363. You may also contact me via email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa A Domenighini

Lisa Domenighini
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Environmental Management Services, Inc.	**Service Request No.:**	K1506055
Project:	KEC Quarterly	**Date Received:**	06/04/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Four water samples were received for analysis at ALS Environmental on 06/04/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260

Initial Calibration Exceptions:
The ALS minimum relative response factor criterion for Methyl Acetate, Trichloroethene (TCE), and Bromodichloromethane was not met in Initial Calibration (ICAL) ID 13970. In accordance with ALS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compounds in question the data quality was not significantly affected. No further corrective action was appropriate.

Calibration Verification Exceptions:
The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS18\0610F010.D: Dichlorodifluoromethane and Chloromethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The ALS minimum relative response factor criterion for Methyl Acetate, 2-Butanone (MEK), and Trichloroethene (TCE) was not met in Continuing Calibration Verification (CCV) J:\MS18\0610F010.D. In accordance with ALS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compounds in question the data quality was not significantly affected. s No further corrective action was appropriate.

Approved by_____ Lisa A Jomenighini _____

Lab Control Sample Exceptions:
The advisory criterion was exceeded for Methyl Acetate in Laboratory Control Sample (LCS) KWG1505227-3 and KWG1505257-3. As per the ALS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound).
The advisory criterion was exceeded for several analytes in Duplicate Laboratory Control Sample (DLCS) KWG1505227-5. The purpose of the Duplicate Laboratory Control Sample is to show duplication in the window, which it does. No further corrective action was required.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Trichloroethene (TCE) for sample Batch QC were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

<u>1,4-Dioxane by EPA Method 8270</u>

Sample Notes and Discussion:
The Matrix Spike/Matrix Spike Duplicate (MS/MSD) extracted with this batch was not applicable to this sample due to differing client specified Method Reporting Limit (MRL) requirements. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by____Lisa A Domenighini_____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY
60072

001

SR# K1506059

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC Quarterly
Project Number:
Project Manager: Ethan Allen
Company: Environmental Management Services
Address: PO Box 15369 Hattiesburg MS 39402
Phone #: 601 544-3674
email: eallen@env-mgt.com
Sampler Signature: Alan Niven
Sampler Printed Name: Alan Niven

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. TBV		6-2-15	10:45	W			X						
2. KEP-GW-010A-086		6-2-15	10:45		4	X	X						
3. KEP-GW-030-012		6-2-15	12:00		6	X	X						
4. KEP-GW-035-006		6-2-15	15:20		4	X	X						
5.													
6.													
7.													
8.													
9.													
10.													

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

Low level for 1,4-Dioxane MRL = 0.5 µg/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Alan Niven	Signature:	Signature	Signature	Signature	Signature
Printed Name: Alan Niven	Printed Name: Les Kennedy	Printed Name	Printed Name	Printed Name	Printed Name
Firm: EMS	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 6-3-15 17:05	Date/Time: 6/4/2015 0930	Date/Time	Date/Time	Date/Time	Date/Time

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: EMS Service Request *K15* 06055

Received: 6/4/15 Opened: 6/4/15 By: ML Unloaded: 6/4/15 By: ML

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front 1 Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.5	0.3	3.5	3.3	-0.2	354	60072	7737 5218 2596	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Received 2 trip blanks not listed on the COC.

Page ____ ***of*** ____

Volatile Organic Compounds

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	TBV	**Units:**	ug/L
Lab Code:	K1506055-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	TBV	**Units:**	ug/L
Lab Code:	K1506055-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	06/10/15	Acceptable
Toluene-d8	99	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010A-026	**Units:**	ug/L
Lab Code:	K1506055-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	**75**		0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	**2.7**		0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	**0.85**		0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	**1.2**		0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	**2.4**		0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	**7.7**		0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010A-026	**Units:**	ug/L
Lab Code:	K1506055-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	06/10/15	Acceptable
Toluene-d8	97	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-030-012	**Units:**	ug/L
Lab Code:	K1506055-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	**37**		0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	**1.2**		0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	**3.0**		0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-030-012	**Units:**	ug/L
Lab Code:	K1506055-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	06/10/15	Acceptable
Toluene-d8	98	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	93	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-035-006	**Units:**	ug/L
Lab Code:	K1506055-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	**110**	D	2.5	5	06/11/15	06/11/15	KWG1505257	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	**6.1**		0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	**1.9**		0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	**85**	D	2.5	5	06/11/15	06/11/15	KWG1505257	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	**12**		0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	**1.6**		0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	**40**		0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-035-006	**Units:**	ug/L
Lab Code:	K1506055-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	06/10/15	Acceptable
Toluene-d8	96	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505227-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505227-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	73-122	06/10/15	Acceptable
Toluene-d8	98	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505257-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Chloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Vinyl Chloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromomethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Chloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichlorofluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methyl Acetate	ND	U	1.0	1	06/11/15	06/11/15	KWG1505257	*
1,1-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Acetone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Carbon Disulfide	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methylene Chloride	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Methyl tert-Butyl Ether	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1-Dichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Butanone (MEK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Chloroform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Carbon Tetrachloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Benzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichloroethene (TCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
1,2-Dichloropropane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromodichloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Toluene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,2-Trichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Hexanone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Dibromochloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Chlorobenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505257-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
m,p-Xylenes	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
o-Xylene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Styrene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromoform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Isopropylbenzene	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	06/11/15	Acceptable
Toluene-d8	97	65-144	06/11/15	Acceptable
4-Bromofluorobenzene	93	68-117	06/11/15	Acceptable

Comments:

QA/QC Report

Client: Environmental Management Services, Inc. **Service Request:** K1506055
Project: KEC Quarterly
Sample Matrix: Water

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B **Units:** Percent
Analysis Method: 8260C **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
TBV	K1506055-001	108	99	92
KEP-GW-010A-026	K1506055-002	109	97	92
KEP-GW-030-012	K1506055-003	110	98	93
KEP-GW-035-006	K1506055-004	110	96	92
Batch QC	K1506205-005	112	100	93
Method Blank	KWG1505227-4	107	98	92
Method Blank	KWG1505257-5	109	97	93
Batch QCMS	KWG1505257-1	105	99	101
Batch QCDMS	KWG1505257-2	105	101	102
Lab Control Sample	KWG1505227-3	105	100	100
Duplicate Lab Control Sample	KWG1505227-5	105	100	100
Lab Control Sample	KWG1505257-3	107	101	101

Surrogate Recovery Control Limits (%)

Sur1	=	Dibromofluoromethane	73-122
Sur2	=	Toluene-d8	65-144
Sur3	=	4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1506205-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C	**Extraction Lot:**	KWG1505257

		Batch QCMS KWG1505257-1 Matrix Spike			Batch QCDMS KWG1505257-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Vinyl Chloride	ND	11.0	10.0	110	10.7	10.0	107	49-136	3	30
1,1-Dichloroethene	5.4	17.8	10.0	124	17.6	10.0	122	59-171	1	30
Chloroform	ND	11.7	10.0	117	11.6	10.0	116	64-133	1	30
Carbon Tetrachloride	ND	12.8	10.0	128	12.3	10.0	123	53-161	4	30
Benzene	ND	11.5	10.0	115	11.2	10.0	112	63-144	3	30
Trichloroethene (TCE)	130	133E	10.0	54 #	130E	10.0	27 #	53-139	2	30
Bromodichloromethane	ND	11.7	10.0	117	11.6	10.0	116	61-134	1	30
Toluene	ND	11.2	10.0	112	11.1	10.0	111	71-136	1	30
1,1,2-Trichloroethane	ND	10.7	10.0	107	11.3	10.0	113	74-124	6	30
2-Hexanone	ND	45.4	50.0	91	52.1	50.0	104	53-132	14	30
Chlorobenzene	ND	11.7	10.0	117	11.6	10.0	116	69-126	1	30
Ethylbenzene	ND	11.5	10.0	115	11.4	10.0	114	66-136	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Environmental Management Services, Inc.
Project: KEC Quarterly
Sample Matrix: Water

Service Request: K1506055
Date Extracted: 06/10/2015
Date Analyzed: 06/10/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1505227

	Lab Control Sample KWG1505227-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505227-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane	7.58	10.0	76	8.87	10.0	89	32-124	16	30
Chloromethane	7.55	10.0	76	9.70	10.0	97	34-130	25	30
Vinyl Chloride	9.54	10.0	95	11.0	10.0	110	55-123	14	30
Bromomethane	8.16	10.0	82	9.96	10.0	100	35-113	20	30
Chloroethane	11.1	10.0	111	12.4	10.0	124	58-134	11	30
Trichlorofluoromethane	9.28	10.0	93	10.7	10.0	107	52-141	14	30
Methyl Acetate	17.8	10.0	178 *	21.5	10.0	215 *	70-130	19	30
1,1-Dichloroethene	10.7	10.0	107	12.7	10.0	127	66-129	17	30
Acetone	50.8	50.0	102	60.1	50.0	120	68-135	17	30
Carbon Disulfide	20.4	20.0	102	23.7	20.0	118	46-144	15	30
Methylene Chloride	10.4	10.0	104	12.4	10.0	124 *	71-122	18	30
Methyl tert-Butyl Ether	8.23	10.0	82	9.99	10.0	100	54-126	19	30
trans-1,2-Dichloroethene	10.9	10.0	109	12.8	10.0	128 *	67-125	17	30
1,1-Dichloroethane	10.9	10.0	109	13.1	10.0	131	68-132	19	30
cis-1,2-Dichloroethene	10.4	10.0	104	12.2	10.0	122 *	71-118	16	30
2-Butanone (MEK)	41.6	50.0	83	50.7	50.0	101	71-149	20	30
Chloroform	10.7	10.0	107	12.5	10.0	125	70-129	16	30
1,1,1-Trichloroethane (TCA)	10.1	10.0	101	12.1	10.0	121	59-136	18	30
Carbon Tetrachloride	10.5	10.0	105	12.3	10.0	123	55-140	16	30
Benzene	10.3	10.0	103	12.2	10.0	122	69-124	17	30
1,2-Dichloroethane (EDC)	10.0	10.0	100	11.8	10.0	118	56-142	17	30
Trichloroethene (TCE)	10.2	10.0	102	12.2	10.0	122	67-128	18	30
1,2-Dichloropropane	9.82	10.0	98	11.8	10.0	118	67-126	18	30
Bromodichloromethane	10.3	10.0	103	12.3	10.0	123	63-129	18	30
cis-1,3-Dichloropropene	9.75	10.0	98	11.8	10.0	118	62-132	19	30
4-Methyl-2-pentanone (MIBK)	40.6	50.0	81	48.5	50.0	97	64-134	18	30
Toluene	9.88	10.0	99	11.8	10.0	118	69-124	18	30
trans-1,3-Dichloropropene	8.98	10.0	90	10.9	10.0	109	59-125	19	30
1,1,2-Trichloroethane	9.80	10.0	98	12.0	10.0	120 *	74-118	20	30
Tetrachloroethene (PCE)	10.7	10.0	107	12.8	10.0	128 *	62-126	18	30
2-Hexanone	41.5	50.0	83	49.1	50.0	98	59-131	17	30
Dibromochloromethane	10.1	10.0	101	12.1	10.0	121	67-126	18	30
1,2-Dibromoethane (EDB)	9.21	10.0	92	11.1	10.0	111	74-118	18	30
Chlorobenzene	10.5	10.0	105	12.6	10.0	126 *	72-116	18	30
Ethylbenzene	10.2	10.0	102	12.2	10.0	122 *	67-121	17	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Extracted:**	06/10/2015
Sample Matrix:	Water	**Date Analyzed:**	06/10/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505227

	Lab Control Sample KWG1505227-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505227-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
m,p-Xylenes	21.2	20.0	106	25.2	20.0	126 *	69-121	17	30
o-Xylene	10.5	10.0	105	12.6	10.0	126 *	71-119	19	30
Styrene	10.1	10.0	101	11.8	10.0	118	74-121	15	30
Bromoform	8.72	10.0	87	10.4	10.0	104	52-144	17	30
Isopropylbenzene	10.3	10.0	103	12.4	10.0	124	67-129	18	30
1,1,2,2-Tetrachloroethane	8.91	10.0	89	10.6	10.0	106	70-127	17	30
1,2-Dibromo-3-chloropropane	8.59	10.0	86	9.91	10.0	99	55-132	14	30

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QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505257

	Lab Control Sample KWG1505257-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	6.98	10.0	70	32-124
Chloromethane	8.00	10.0	80	34-130
Vinyl Chloride	9.17	10.0	92	55-123
Bromomethane	8.04	10.0	80	35-113
Chloroethane	11.9	10.0	119	58-134
Trichlorofluoromethane	9.25	10.0	93	52-141
Methyl Acetate	18.0	10.0	180 *	70-130
1,1-Dichloroethene	10.6	10.0	106	66-129
Acetone	51.7	50.0	103	68-135
Carbon Disulfide	21.4	20.0	107	46-144
Methylene Chloride	10.6	10.0	106	71-122
Methyl tert-Butyl Ether	8.47	10.0	85	54-126
trans-1,2-Dichloroethene	11.0	10.0	110	67-125
1,1-Dichloroethane	11.1	10.0	111	68-132
cis-1,2-Dichloroethene	10.4	10.0	104	71-118
2-Butanone (MEK)	42.4	50.0	85	71-149
Chloroform	10.8	10.0	108	70-129
1,1,1-Trichloroethane (TCA)	10.3	10.0	103	59-136
Carbon Tetrachloride	10.9	10.0	109	55-140
Benzene	10.3	10.0	103	69-124
1,2-Dichloroethane (EDC)	10.2	10.0	102	56-142
Trichloroethene (TCE)	10.0	10.0	100	67-128
1,2-Dichloropropane	9.91	10.0	99	67-126
Bromodichloromethane	10.9	10.0	109	63-129
cis-1,3-Dichloropropene	10.3	10.0	103	62-132
4-Methyl-2-pentanone (MIBK)	41.2	50.0	82	64-134
Toluene	9.98	10.0	100	69-124
trans-1,3-Dichloropropene	9.72	10.0	97	59-125
1,1,2-Trichloroethane	10.1	10.0	101	74-118
Tetrachloroethene (PCE)	10.9	10.0	109	62-126
2-Hexanone	42.7	50.0	85	59-131
Dibromochloromethane	11.2	10.0	112	67-126
1,2-Dibromoethane (EDB)	9.68	10.0	97	74-118
Chlorobenzene	10.8	10.0	108	72-116
Ethylbenzene	10.3	10.0	103	67-121

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505257

	Lab Control Sample KWG1505257-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
m,p-Xylenes	21.3	20.0	107	69-121
o-Xylene	10.6	10.0	106	71-119
Styrene	10.3	10.0	103	74-121
Bromoform	10.3	10.0	103	52-144
Isopropylbenzene	10.3	10.0	103	67-129
1,1,2,2-Tetrachloroethane	8.95	10.0	90	70-127
1,2-Dibromo-3-chloropropane	9.01	10.0	90	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1,4-Dioxane by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-010A-026	**Units:**	ug/L
Lab Code:	K1506055-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**6.0**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	85	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-030-012	**Units:**	ug/L
Lab Code:	K1506055-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**1.3**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	74	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-035-006	**Units:**	ug/L
Lab Code:	K1506055-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**5.0**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	80	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,4-Dioxane by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505058-5	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	74	48-118	06/11/15	Acceptable

Comments:

Client: Environmental Management Services, Inc. **Service Request:** K1506055
Project: KEC Quarterly
Sample Matrix: Water

Surrogate Recovery Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C **Units:** Percent
Analysis Method: 8270D SIM **Level:** Low

Sample Name	Lab Code	Sur1
KEP-GW-010A-026	K1506055-002	85
KEP-GW-030-012	K1506055-003	74
KEP-GW-035-006	K1506055-004	80
Method Blank	KWG1505058-5	74
Lab Control Sample	KWG1505058-3	74
Duplicate Lab Control Sample	KWG1505058-4	72

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 48-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506055
Project:	KEC Quarterly	**Date Extracted:**	06/05/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
1,4-Dioxane by GC/MS

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505058

	Lab Control Sample KWG1505058-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505058-4 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	17.4	25.0	70	15.4	25.0	62	52-111	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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June 25, 2015

Analytical Report for Service Request No: K1506056

Ethan Allen
Environmental Management Services, Inc.
7350 Hwy 98
P.O. Box 15369
Hattiesburg, MS 39402

RE: KEC Quarterly / KUH-15-003

Dear Ethan,

Enclosed are the results of the sample(s) submitted to our laboratory June 04, 2015
For your reference, these analyses have been assigned our service request number **K1506056.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3363. You may also contact me via email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa A Domenighini

Lisa Domenighini
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Environmental Management Services, Inc.	**Service Request No.:**	K1506056
Project:	KEC Quarterly/ KUH-15-003	**Date Received:**	06/04/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Four water samples were received for analysis at ALS Environmental on 06/04/15. The samples were received in good condition and consistent with the accompanying chain of custody form, except where noted on the cooler receipt and preservation form included in this report. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260

Initial Calibration Exceptions:
The ALS minimum relative response factor criterion for Methyl Acetate, Trichloroethene (TCE), and Bromodichloromethane was not met in Initial Calibration (ICAL) ID 13970. In accordance with ALS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compounds in question the data quality was not significantly affected. No further corrective action was appropriate.

Calibration Verification Exceptions:
The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS18\0610F010.D: Dichlorodifluoromethane and Chloromethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The ALS minimum relative response factor criterion for Methyl Acetate, 2-Butanone (MEK), and Trichloroethene (TCE) was not met in Continuing Calibration Verification (CCV) J:\MS18\0610F010.D. In accordance with ALS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compounds in question the data quality was not significantly affected. s No further corrective action was appropriate.

Approved by__ Lisa A. Domenighini

Lab Control Sample Exceptions:
The advisory criterion was exceeded for Methyl Acetate in Laboratory Control Sample (LCS) KWG1505227-3 and KWG1505257-3. As per the ALS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound).
The advisory criterion was exceeded for several analytes in Duplicate Laboratory Control Sample (DLCS) KWG1505227-5. The purpose of the Duplicate Laboratory Control Sample is to show duplication in the window, which it does. No further corrective action was required.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Trichloroethene (TCE) for sample Batch QC were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

1,4-Dioxane by EPA Method 8270

Sample Notes and Discussion:
The Matrix Spike/Matrix Spike Duplicate (MS/MSD) extracted with this batch was not applicable to this sample due to differing client specified Method Reporting Limit (MRL) requirements. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____ Lisa A Domenighini _____ _____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY
60072

001

SR# K1504054

COC Set____of____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

Project Name: KEC QUARTERLY
Project Number: KUH-15-003
Project Manager: Ethan E. Allen
Company: Environmental Management Services, Inc
Address: PO Box 15369 Hattiesburg, MS 39402
Phone #: 601 544 3674
email: eallen@envmgt.com
Sampler Signature: [signature]
Sampler Printed Name: Jeremy Van Slyke

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	7D 8270D / 1,4-Dioxane	14D 8260C / VOC FP	1	2	3	4	5	Remarks
1. KEP-GW-010B-026		6·2·15	1212	W	4	X	X						
2. KEP-GW-010C-026		6·2·15	1115	W	4	X	X						
3. KEP-GW-031-012		6·2·15	1415	W	4	X	X						
4. BD-1-0615		6·2·15	1330	W	4	X	X						
5.													
6.													
7.													
8.													
9.													
10.													

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#_____
Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

Low Level for 1,4-Dioxane MRL=0.5 ug/L

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature [signature]	Signature [signature]	Signature	Signature	Signature	Signature
Printed Name Jeremy Van Slyke	Printed Name Les Kennedy	Printed Name	Printed Name	Printed Name	Printed Name
Firm EMS	Firm ALS	Firm	Firm	Firm	Firm
Date/Time 6.3.15 1705	Date/Time 6/4/2015 0930	Date/Time	Date/Time	Date/Time	Date/Time

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: Ems Service Request *K15* 06056

Received: 6/4/15 Opened: 6/4/15 By: cu Unloaded: 6/4/15 By: cu

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front 1 Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.5	0.3	3.5	3.3	-0.2	354	60072	7737 5218 2596	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Received 2 trip blanks not listed on the COC.

Page ____ ***of*** ____

Volatile Organic Compounds

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-0108-026	**Units:**	ug/L
Lab Code:	K1506056-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	**5.8**		0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-0108-026	**Units:**	ug/L
Lab Code:	K1506056-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	06/10/15	Acceptable
Toluene-d8	98	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010C-026	**Units:**	ug/L
Lab Code:	K1506056-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	**0.97**		0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-010C-026	**Units:**	ug/L
Lab Code:	K1506056-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	06/10/15	Acceptable
Toluene-d8	99	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	93	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-031-012	**Units:**	ug/L
Lab Code:	K1506056-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/11/15	KWG1505227	*
1,1-Dichloroethene	**7.0**		0.50	1	06/10/15	06/11/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/11/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/11/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/11/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/11/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/11/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/11/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	KEP-GW-031-012	**Units:**	ug/L
Lab Code:	K1506056-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/11/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/11/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/11/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	06/11/15	Acceptable
Toluene-d8	97	65-144	06/11/15	Acceptable
4-Bromofluorobenzene	91	68-117	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	BD-1-0615	**Units:**	ug/L
Lab Code:	K1506056-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Chloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Vinyl Chloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromomethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Chloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichlorofluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methyl Acetate	ND	U	1.0	1	06/11/15	06/11/15	KWG1505257	*
1,1-Dichloroethene	**7.3**		0.50	1	06/11/15	06/11/15	KWG1505257	
Acetone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Carbon Disulfide	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methylene Chloride	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Methyl tert-Butyl Ether	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1-Dichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Butanone (MEK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Chloroform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Carbon Tetrachloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Benzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichloroethene (TCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
1,2-Dichloropropane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromodichloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Toluene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,2-Trichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Hexanone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Dibromochloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Chlorobenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

Volatile Organic Compounds

Sample Name:	BD-1-0615	**Units:**	ug/L
Lab Code:	K1506056-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
m,p-Xylenes	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
o-Xylene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Styrene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromoform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Isopropylbenzene	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	06/11/15	Acceptable
Toluene-d8	98	65-144	06/11/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505227-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Chloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Vinyl Chloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromomethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Chloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichlorofluoromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methyl Acetate	ND	U	1.0	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Acetone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Carbon Disulfide	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Methylene Chloride	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	*
Methyl tert-Butyl Ether	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,1-Dichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Butanone (MEK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Chloroform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Carbon Tetrachloride	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Benzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Trichloroethene (TCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
1,2-Dichloropropane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromodichloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Toluene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,1,2-Trichloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Tetrachloroethene (PCE)	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
2-Hexanone	ND	U	20	1	06/10/15	06/10/15	KWG1505227	
Dibromochloromethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
Chlorobenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505227-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
m,p-Xylenes	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
o-Xylene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	*
Styrene	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Bromoform	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
Isopropylbenzene	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/10/15	06/10/15	KWG1505227	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/10/15	06/10/15	KWG1505227	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	73-122	06/10/15	Acceptable
Toluene-d8	98	65-144	06/10/15	Acceptable
4-Bromofluorobenzene	92	68-117	06/10/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505257-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Chloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
Vinyl Chloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromomethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Chloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichlorofluoromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methyl Acetate	ND	U	1.0	1	06/11/15	06/11/15	KWG1505257	*
1,1-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Acetone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Carbon Disulfide	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Methylene Chloride	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Methyl tert-Butyl Ether	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1-Dichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Butanone (MEK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Chloroform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Carbon Tetrachloride	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Benzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Trichloroethene (TCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
1,2-Dichloropropane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromodichloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	*
cis-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Toluene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,1,2-Trichloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
2-Hexanone	ND	U	20	1	06/11/15	06/11/15	KWG1505257	
Dibromochloromethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
Chlorobenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505257-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
m,p-Xylenes	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
o-Xylene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Styrene	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Bromoform	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
Isopropylbenzene	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/11/15	06/11/15	KWG1505257	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/11/15	06/11/15	KWG1505257	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	06/11/15	Acceptable
Toluene-d8	97	65-144	06/11/15	Acceptable
4-Bromofluorobenzene	93	68-117	06/11/15	Acceptable

Comments:

QA/QC Report

Client: Environmental Management Services, Inc. **Service Request:** K1506056
Project: KEC Quarterly/KUH-15-003
Sample Matrix: Water

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B **Units:** Percent
Analysis Method: 8260C **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
KEP-GW-0108-026	K1506056-001	110	98	92
KEP-GW-010C-026	K1506056-002	109	99	93
KEP-GW-031-012	K1506056-003	108	97	91
BD-1-0615	K1506056-004	110	98	92
Batch QC	K1506205-005	112	100	93
Method Blank	KWG1505227-4	107	98	92
Method Blank	KWG1505257-5	109	97	93
Batch QCMS	KWG1505257-1	105	99	101
Batch QCDMS	KWG1505257-2	105	101	102
Lab Control Sample	KWG1505227-3	105	100	100
Duplicate Lab Control Sample	KWG1505227-5	105	100	100
Lab Control Sample	KWG1505257-3	107	101	101

Surrogate Recovery Control Limits (%)

Sur1	=	Dibromofluoromethane	73-122
Sur2	=	Toluene-d8	65-144
Sur3	=	4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1506205-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C	**Extraction Lot:**	KWG1505257

		Batch QCMS KWG1505257-1 Matrix Spike			Batch QCDMS KWG1505257-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Vinyl Chloride	ND	11.0	10.0	110	10.7	10.0	107	49-136	3	30
1,1-Dichloroethene	5.4	17.8	10.0	124	17.6	10.0	122	59-171	1	30
Chloroform	ND	11.7	10.0	117	11.6	10.0	116	64-133	1	30
Carbon Tetrachloride	ND	12.8	10.0	128	12.3	10.0	123	53-161	4	30
Benzene	ND	11.5	10.0	115	11.2	10.0	112	63-144	3	30
Trichloroethene (TCE)	130	133E	10.0	54 #	130E	10.0	27 #	53-139	2	30
Bromodichloromethane	ND	11.7	10.0	117	11.6	10.0	116	61-134	1	30
Toluene	ND	11.2	10.0	112	11.1	10.0	111	71-136	1	30
1,1,2-Trichloroethane	ND	10.7	10.0	107	11.3	10.0	113	74-124	6	30
2-Hexanone	ND	45.4	50.0	91	52.1	50.0	104	53-132	14	30
Chlorobenzene	ND	11.7	10.0	117	11.6	10.0	116	69-126	1	30
Ethylbenzene	ND	11.5	10.0	115	11.4	10.0	114	66-136	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Environmental Management Services, Inc.
Project: KEC Quarterly/KUH-15-003
Sample Matrix: Water

Service Request: K1506056
Date Extracted: 06/10/2015
Date Analyzed: 06/10/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1505227

	Lab Control Sample KWG1505227-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505227-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane	7.58	10.0	76	8.87	10.0	89	32-124	16	30
Chloromethane	7.55	10.0	76	9.70	10.0	97	34-130	25	30
Vinyl Chloride	9.54	10.0	95	11.0	10.0	110	55-123	14	30
Bromomethane	8.16	10.0	82	9.96	10.0	100	35-113	20	30
Chloroethane	11.1	10.0	111	12.4	10.0	124	58-134	11	30
Trichlorofluoromethane	9.28	10.0	93	10.7	10.0	107	52-141	14	30
Methyl Acetate	17.8	10.0	178 *	21.5	10.0	215 *	70-130	19	30
1,1-Dichloroethene	10.7	10.0	107	12.7	10.0	127	66-129	17	30
Acetone	50.8	50.0	102	60.1	50.0	120	68-135	17	30
Carbon Disulfide	20.4	20.0	102	23.7	20.0	118	46-144	15	30
Methylene Chloride	10.4	10.0	104	12.4	10.0	124 *	71-122	18	30
Methyl tert-Butyl Ether	8.23	10.0	82	9.99	10.0	100	54-126	19	30
trans-1,2-Dichloroethene	10.9	10.0	109	12.8	10.0	128 *	67-125	17	30
1,1-Dichloroethane	10.9	10.0	109	13.1	10.0	131	68-132	19	30
cis-1,2-Dichloroethene	10.4	10.0	104	12.2	10.0	122 *	71-118	16	30
2-Butanone (MEK)	41.6	50.0	83	50.7	50.0	101	71-149	20	30
Chloroform	10.7	10.0	107	12.5	10.0	125	70-129	16	30
1,1,1-Trichloroethane (TCA)	10.1	10.0	101	12.1	10.0	121	59-136	18	30
Carbon Tetrachloride	10.5	10.0	105	12.3	10.0	123	55-140	16	30
Benzene	10.3	10.0	103	12.2	10.0	122	69-124	17	30
1,2-Dichloroethane (EDC)	10.0	10.0	100	11.8	10.0	118	56-142	17	30
Trichloroethene (TCE)	10.2	10.0	102	12.2	10.0	122	67-128	18	30
1,2-Dichloropropane	9.82	10.0	98	11.8	10.0	118	67-126	18	30
Bromodichloromethane	10.3	10.0	103	12.3	10.0	123	63-129	18	30
cis-1,3-Dichloropropene	9.75	10.0	98	11.8	10.0	118	62-132	19	30
4-Methyl-2-pentanone (MIBK)	40.6	50.0	81	48.5	50.0	97	64-134	18	30
Toluene	9.88	10.0	99	11.8	10.0	118	69-124	18	30
trans-1,3-Dichloropropene	8.98	10.0	90	10.9	10.0	109	59-125	19	30
1,1,2-Trichloroethane	9.80	10.0	98	12.0	10.0	120 *	74-118	20	30
Tetrachloroethene (PCE)	10.7	10.0	107	12.8	10.0	128 *	62-126	18	30
2-Hexanone	41.5	50.0	83	49.1	50.0	98	59-131	17	30
Dibromochloromethane	10.1	10.0	101	12.1	10.0	121	67-126	18	30
1,2-Dibromoethane (EDB)	9.21	10.0	92	11.1	10.0	111	74-118	18	30
Chlorobenzene	10.5	10.0	105	12.6	10.0	126 *	72-116	18	30
Ethylbenzene	10.2	10.0	102	12.2	10.0	122 *	67-121	17	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Extracted:**	06/10/2015
Sample Matrix:	Water	**Date Analyzed:**	06/10/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505227

	Lab Control Sample KWG1505227-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505227-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
m,p-Xylenes	21.2	20.0	106	25.2	20.0	126 *	69-121	17	30
o-Xylene	10.5	10.0	105	12.6	10.0	126 *	71-119	19	30
Styrene	10.1	10.0	101	11.8	10.0	118	74-121	15	30
Bromoform	8.72	10.0	87	10.4	10.0	104	52-144	17	30
Isopropylbenzene	10.3	10.0	103	12.4	10.0	124	67-129	18	30
1,1,2,2-Tetrachloroethane	8.91	10.0	89	10.6	10.0	106	70-127	17	30
1,2-Dibromo-3-chloropropane	8.59	10.0	86	9.91	10.0	99	55-132	14	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505257

	Lab Control Sample KWG1505257-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	6.98	10.0	70	32-124
Chloromethane	8.00	10.0	80	34-130
Vinyl Chloride	9.17	10.0	92	55-123
Bromomethane	8.04	10.0	80	35-113
Chloroethane	11.9	10.0	119	58-134
Trichlorofluoromethane	9.25	10.0	93	52-141
Methyl Acetate	18.0	10.0	180 *	70-130
1,1-Dichloroethene	10.6	10.0	106	66-129
Acetone	51.7	50.0	103	68-135
Carbon Disulfide	21.4	20.0	107	46-144
Methylene Chloride	10.6	10.0	106	71-122
Methyl tert-Butyl Ether	8.47	10.0	85	54-126
trans-1,2-Dichloroethene	11.0	10.0	110	67-125
1,1-Dichloroethane	11.1	10.0	111	68-132
cis-1,2-Dichloroethene	10.4	10.0	104	71-118
2-Butanone (MEK)	42.4	50.0	85	71-149
Chloroform	10.8	10.0	108	70-129
1,1,1-Trichloroethane (TCA)	10.3	10.0	103	59-136
Carbon Tetrachloride	10.9	10.0	109	55-140
Benzene	10.3	10.0	103	69-124
1,2-Dichloroethane (EDC)	10.2	10.0	102	56-142
Trichloroethene (TCE)	10.0	10.0	100	67-128
1,2-Dichloropropane	9.91	10.0	99	67-126
Bromodichloromethane	10.9	10.0	109	63-129
cis-1,3-Dichloropropene	10.3	10.0	103	62-132
4-Methyl-2-pentanone (MIBK)	41.2	50.0	82	64-134
Toluene	9.98	10.0	100	69-124
trans-1,3-Dichloropropene	9.72	10.0	97	59-125
1,1,2-Trichloroethane	10.1	10.0	101	74-118
Tetrachloroethene (PCE)	10.9	10.0	109	62-126
2-Hexanone	42.7	50.0	85	59-131
Dibromochloromethane	11.2	10.0	112	67-126
1,2-Dibromoethane (EDB)	9.68	10.0	97	74-118
Chlorobenzene	10.8	10.0	108	72-116
Ethylbenzene	10.3	10.0	103	67-121

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Extracted:**	06/11/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260C	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505257

	Lab Control Sample KWG1505257-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
m,p-Xylenes	21.3	20.0	107	69-121
o-Xylene	10.6	10.0	106	71-119
Styrene	10.3	10.0	103	74-121
Bromoform	10.3	10.0	103	52-144
Isopropylbenzene	10.3	10.0	103	67-129
1,1,2,2-Tetrachloroethane	8.95	10.0	90	70-127
1,2-Dibromo-3-chloropropane	9.01	10.0	90	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1,4-Dioxane by GC/MS

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-0108-026	**Units:**	ug/L
Lab Code:	K1506056-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.94**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	72	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-010C-026	**Units:**	ug/L
Lab Code:	K1506056-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	73	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-031-012	**Units:**	ug/L
Lab Code:	K1506056-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.73**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	74	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	06/02/2015
Sample Matrix:	Water	**Date Received:**	06/04/2015

1,4-Dioxane by GC/MS

Sample Name:	BD-1-0615	**Units:**	ug/L
Lab Code:	K1506056-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	**0.78**		0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	73	48-118	06/11/15	Acceptable

Comments:

Analytical Results

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,4-Dioxane by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1505058-5	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	1	06/05/15	06/11/15	KWG1505058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	74	48-118	06/11/15	Acceptable

Comments:

QA/QC Report

Client: Environmental Management Services, Inc. **Service Request:** K1506056
Project: KEC Quarterly/KUH-15-003
Sample Matrix: Water

Surrogate Recovery Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C **Units:** Percent
Analysis Method: 8270D SIM **Level:** Low

Sample Name	Lab Code	Sur1
KEP-GW-0108-026	K1506056-001	72
KEP-GW-010C-026	K1506056-002	73
KEP-GW-031-012	K1506056-003	74
BD-1-0615	K1506056-004	73
Method Blank	KWG1505058-5	74
Lab Control Sample	KWG1505058-3	74
Duplicate Lab Control Sample	KWG1505058-4	72

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 48-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	Environmental Management Services, Inc.	**Service Request:**	K1506056
Project:	KEC Quarterly/KUH-15-003	**Date Extracted:**	06/05/2015
Sample Matrix:	Water	**Date Analyzed:**	06/11/2015

Lab Control Spike/Duplicate Lab Control Spike Summary
1,4-Dioxane by GC/MS

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1505058

	Lab Control Sample KWG1505058-3 Lab Control Spike			Duplicate Lab Control Sample KWG1505058-4 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	17.4	25.0	70	15.4	25.0	62	52-111	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Appendix B

Observation Well Soil Vapor

Analytical Results

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LABORATORY REPORT

February 27, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O Box 15369
Hattiesburg, MS 39404

RE: SVE Performance Monitoring / KUH0-15-010

Dear Stephanie:

Enclosed are the results of the sample(s) submitted to our laboratory on February 19, 2015. For your reference, these analyses have been assigned our service request number P1500677.

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, Feb 27, 2015

Sue Anderson
Project Manager

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Client: Environmental Management Services, Inc. Service Request No: P1500677
Project: SVE Performance Monitoring / KUH0-15-010

CASE NARRATIVE

The samples were received intact under chain of custody on February 19, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The upper control criterion was exceeded for 1,2-Dibromo-3-Chloropropane in the Continuing Calibration Verification (CCV) analyzed on February 25, 2015 and February 26, 2015. Since the apparent problem equates to a potential high bias and the field samples analyzed in these sequences did not contain the analyte in question, the data quality has not been affected. No corrective action was required.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1500677

Project ID: SVE Performance Monitoring / KUH0-15-010

Date Received: 2/19/2015

Time Received: 09:30

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SVE-OBS-01	P1500677-001	Air	2/17/2015	08:15	1SC00930	0.23	4.90	X
SVE-OBS-02	P1500677-002	Air	2/17/2015	08:30	1SC00414	0.13	8.28	X
SVE-OBS-03	P1500677-003	Air	2/17/2015	08:45	1SS00010	0.25	5.18	X
SVE-OBS-04	P1500677-004	Air	2/17/2015	08:55	1SC00563	0.28	5.08	X
SVE-OBS-05	P1500677-005	Air	2/17/2015	09:20	1SC00169	0.29	5.14	X
SVE-OBS-06	P1500677-006	Air	2/17/2015	09:33	1SC00823	0.26	6.07	X
SVE-OBS-07	P1500677-007	Air	2/17/2015	09:58	1SC00431	0.11	5.18	X
SVE-OBS-08	P1500677-008	Air	2/17/2015	10:07	1SC00400	0.04	5.52	X
SVE-OBS-09	P1500677-009	Air	2/17/2015	10:20	1SC00779	0.05	5.50	X
SVE EXHAUST	P1500677-010	Air	2/17/2015	13:00	1SC01232	1.46	4.50	X
POST CARBON 1	P1500677-011	Air	2/17/2015	13:05	1SC00315	0.73	5.95	X
POST CARBON 2	P1500677-012	Air	2/17/2015	13:08	1SC00649	0.68	9.42	X

Air - Chain of Custody Record & Analytical Service Request

ALS
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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: P1500677

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg, MS 39404

Project Name: SVE Performance Monitoring

Project Number: KUHO-15-010

ALS Contact:

Project Manager: Stephanie Kilgore

Phone: 601-544-3674 Fax: 601-544-0504

P.O. # / Billing Information: KUHO-15-010 / Same as reporting

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

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	Analysis Method: TO-15		Comments e.g. Actual Preservative or specific instructions
SVE-OBS-01	1	2-17-15	8:15	ISC00930	AVG02629				X		
SVE-OBS-02	2	2-17-15	8:30	ISC00414	AVG03081				X		
SVE-OBS-03	3	2-17-15	8:45	ISS00010	AVG02278				X		
SVE-OBS-04	4	2-17-15	8:55	ISC00563	AVG02433				X		
SVE-OBS-05	5	2-17-15	9:20	ISC00169	AVG02324				X		
SVE-OBS-06	6	2-17-15	9:33	ISC00823	AVG03366				X		
SVE-OBS-07	7	2-17-15	9:58	ISC00431	AVG03452				X		
SVE-OBS-08	8	2-17-15	10:07	ISC00400	AVG03181				X		
SVE-OBS-09	9	2-17-15	10:20	ISC00779	AVG03526				X		
SVE Exhaust	10	2-17-15	13:00	ISC01232	AVG03420				X		
Post Carbon 1	11	2-17-15	13:05	ISC00315	AVG03524				X		
Post Carbon 2	12	2-17-15	13:08	ISC00649	AVG03089				X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries) X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	2-18-15	16:00	Fran Kot		
Relinquished by: (Signature) Fran Kot	Date:	Time:	Received by: (Signature) L. K.	2/19/15	0930

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1500677

Project: SVE Performance Monitoring / KUH0-15-010

Sample(s) received on: 2/19/15 Date opened: 2/19/15 by: KKELPE

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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500677-001.01	1.0 L Source Can					
P1500677-002.01	1.0 L Source Can					
P1500677-003.01	1.0 L Source Silonite Canister					
P1500677-004.01	1.0 L Source Can					
P1500677-005.01	1.0 L Source Can					
P1500677-006.01	1.0 L Source Can					
P1500677-007.01	1.0 L Source Can					
P1500677-008.01	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
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1500677

Project: SVE Performance Monitoring / KUH0-15-010

Sample(s) received on: 2/19/15 Date opened: 2/19/15 by: KKELPE

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500677-009.01	1.0 L Source Can					
P1500677-010.01	1.0 L Source Can					
P1500677-011.01	1.0 L Source Can					
P1500677-012.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00930

Initial Pressure (psig): 0.23 Final Pressure (psig): 4.90

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.0**	1.6	0.46	**1.7**	0.95	0.27	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.6	0.56	**0.35**	0.33	0.11	
74-87-3	Chloromethane	ND	1.6	0.49	ND	0.79	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.62	ND	0.23	0.089	
75-01-4	Vinyl Chloride	ND	1.6	0.56	ND	0.64	0.22	
106-99-0	1,3-Butadiene	ND	1.6	0.72	ND	0.74	0.33	
74-83-9	Bromomethane	ND	1.6	0.62	ND	0.42	0.16	
75-00-3	Chloroethane	ND	1.6	0.56	ND	0.62	0.21	
64-17-5	Ethanol	**240**	16	2.6	**130**	8.7	1.4	
75-05-8	Acetonitrile	ND	1.6	0.59	ND	0.98	0.35	
107-02-8	Acrolein	**1.1**	6.6	0.56	**0.50**	2.9	0.24	**J**
67-64-1	Acetone	**140**	16	2.5	**60**	6.9	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.6	0.56	**0.18**	0.29	0.099	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**12**	16	1.4	**4.9**	6.7	0.56	**J**
107-13-1	Acrylonitrile	ND	1.6	0.56	ND	0.75	0.26	
75-35-4	1,1-Dichloroethene	ND	1.6	0.56	ND	0.41	0.14	
75-09-2	Methylene Chloride	**0.56**	1.6	0.56	**0.16**	0.47	0.16	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.6	0.52	ND	0.52	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.6	0.56	ND	0.21	0.073	
75-15-0	Carbon Disulfide	ND	16	0.49	ND	5.3	0.16	
156-60-5	trans-1,2-Dichloroethene	**1.2**	1.6	0.62	**0.29**	0.41	0.16	**J**
75-34-3	1,1-Dichloroethane	ND	1.6	0.52	ND	0.40	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	0.56	ND	0.45	0.15	
108-05-4	Vinyl Acetate	**4.0**	16	2.1	**1.1**	4.7	0.60	**J**
78-93-3	2-Butanone (MEK)	**7.1**	16	0.69	**2.4**	5.6	0.23	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00930

Initial Pressure (psig): 0.23 Final Pressure (psig): 4.90

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.52	ND	0.41	0.13	
141-78-6	Ethyl Acetate	**1.4**	3.3	1.1	**0.40**	0.91	0.32	**J**
110-54-3	n-Hexane	**1.2**	1.6	0.49	**0.35**	0.46	0.14	**J**
67-66-3	Chloroform	ND	1.6	0.56	ND	0.34	0.11	
109-99-9	Tetrahydrofuran (THF)	**1.2**	1.6	0.66	**0.40**	0.56	0.22	**J**
107-06-2	1,2-Dichloroethane	ND	1.6	0.52	ND	0.40	0.13	
71-55-6	1,1,1-Trichloroethane	**0.84**	1.6	0.56	**0.15**	0.30	0.10	**J**
71-43-2	Benzene	**0.55**	1.6	0.52	**0.17**	0.51	0.16	**J**
56-23-5	Carbon Tetrachloride	ND	1.6	0.49	ND	0.26	0.078	
110-82-7	Cyclohexane	ND	3.3	0.95	ND	0.95	0.28	
78-87-5	1,2-Dichloropropane	ND	1.6	0.52	ND	0.35	0.11	
75-27-4	Bromodichloromethane	ND	1.6	0.49	ND	0.24	0.073	
79-01-6	Trichloroethene	ND	1.6	0.46	ND	0.30	0.085	
123-91-1	1,4-Dioxane	**6.7**	1.6	0.52	**1.9**	0.45	0.15	
80-62-6	Methyl Methacrylate	ND	3.3	1.0	ND	0.80	0.25	
142-82-5	n-Heptane	ND	1.6	0.56	ND	0.40	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.46	ND	0.36	0.10	
108-10-1	4-Methyl-2-pentanone	**20**	1.6	0.52	**5.0**	0.40	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.52	ND	0.36	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.52	ND	0.30	0.096	
108-88-3	Toluene	**33**	1.6	0.56	**8.7**	0.43	0.15	
591-78-6	2-Hexanone	ND	1.6	0.52	ND	0.40	0.13	
124-48-1	Dibromochloromethane	ND	1.6	0.52	ND	0.19	0.062	
106-93-4	1,2-Dibromoethane	ND	1.6	0.52	ND	0.21	0.068	
123-86-4	n-Butyl Acetate	**0.72**	1.6	0.52	**0.15**	0.34	0.11	**J**

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00930

Initial Pressure (psig): 0.23 Final Pressure (psig): 4.90

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.0**	1.6	0.59	**0.21**	0.35	0.13	**J**
127-18-4	Tetrachloroethene	ND	1.6	0.46	ND	0.24	0.068	
108-90-7	Chlorobenzene	ND	1.6	0.52	ND	0.36	0.11	
100-41-4	Ethylbenzene	**15**	1.6	0.52	**3.6**	0.38	0.12	
179601-23-1	m,p-Xylenes	**63**	3.3	0.98	**15**	0.75	0.23	
75-25-2	Bromoform	ND	1.6	0.49	ND	0.16	0.048	
100-42-5	Styrene	**0.73**	1.6	0.49	**0.17**	0.38	0.12	**J**
95-47-6	o-Xylene	**23**	1.6	0.49	**5.4**	0.38	0.11	
111-84-2	n-Nonane	**1.4**	1.6	0.49	**0.27**	0.31	0.094	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	0.49	ND	0.24	0.072	
98-82-8	Cumene	**0.77**	1.6	0.49	**0.16**	0.33	0.10	**J**
80-56-8	alpha-Pinene	**3.4**	1.6	0.46	**0.61**	0.29	0.082	
103-65-1	n-Propylbenzene	**1.5**	1.6	0.52	**0.31**	0.33	0.11	**J**
622-96-8	4-Ethyltoluene	**3.2**	1.6	0.52	**0.64**	0.33	0.11	
108-67-8	1,3,5-Trimethylbenzene	**2.8**	1.6	0.52	**0.57**	0.33	0.11	
95-63-6	1,2,4-Trimethylbenzene	**7.6**	1.6	0.49	**1.6**	0.33	0.10	
100-44-7	Benzyl Chloride	ND	1.6	0.36	ND	0.32	0.070	
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.49	ND	0.27	0.082	
106-46-7	1,4-Dichlorobenzene	**14**	1.6	0.46	**2.3**	0.27	0.076	
95-50-1	1,2-Dichlorobenzene	ND	1.6	0.49	ND	0.27	0.082	
5989-27-5	d-Limonene	**2.6**	1.6	0.46	**0.47**	0.29	0.082	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.32	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.52	ND	0.22	0.071	
91-20-3	Naphthalene	**2.9**	1.6	0.59	**0.55**	0.31	0.11	
87-68-3	Hexachlorobutadiene	ND	1.6	0.46	ND	0.15	0.043	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00414

Initial Pressure (psig): 0.13 Final Pressure (psig): 8.28

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.0**	1.9	0.54	**1.7**	1.1	0.32	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.9	0.66	**0.34**	0.39	0.13	**J**
74-87-3	Chloromethane	ND	1.9	0.58	ND	0.94	0.28	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.74	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	1.9	0.66	ND	0.76	0.26	
106-99-0	1,3-Butadiene	ND	1.9	0.85	ND	0.88	0.39	
74-83-9	Bromomethane	ND	1.9	0.74	ND	0.50	0.19	
75-00-3	Chloroethane	ND	1.9	0.66	ND	0.73	0.25	
64-17-5	Ethanol	**310**	19	3.1	**160**	10	1.6	
75-05-8	Acetonitrile	ND	1.9	0.70	ND	1.2	0.42	
107-02-8	Acrolein	**0.92**	7.8	0.66	**0.40**	3.4	0.29	**J**
67-64-1	Acetone	**110**	19	3.0	**47**	8.2	1.3	
75-69-4	Trichlorofluoromethane	**1.1**	1.9	0.66	**0.19**	0.34	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**17**	19	1.6	**6.7**	7.9	0.66	**J**
107-13-1	Acrylonitrile	ND	1.9	0.66	ND	0.89	0.30	
75-35-4	1,1-Dichloroethene	ND	1.9	0.66	ND	0.49	0.17	
75-09-2	Methylene Chloride	ND	1.9	0.66	ND	0.56	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.62	ND	0.62	0.20	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.66	ND	0.25	0.086	
75-15-0	Carbon Disulfide	ND	19	0.58	ND	6.2	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.74	ND	0.49	0.19	
75-34-3	1,1-Dichloroethane	ND	1.9	0.62	ND	0.48	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.66	ND	0.54	0.18	
108-05-4	Vinyl Acetate	ND	19	2.5	ND	5.5	0.72	
78-93-3	2-Butanone (MEK)	**6.1**	19	0.81	**2.1**	6.6	0.28	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00414

Initial Pressure (psig): 0.13 Final Pressure (psig): 8.28

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.62	ND	0.49	0.16	
141-78-6	Ethyl Acetate	ND	3.9	1.4	ND	1.1	0.38	
110-54-3	n-Hexane	**1.2**	1.9	0.58	**0.33**	0.55	0.16	**J**
67-66-3	Chloroform	ND	1.9	0.66	ND	0.40	0.13	
109-99-9	Tetrahydrofuran (THF)	**0.79**	1.9	0.78	**0.27**	0.66	0.26	**J**
107-06-2	1,2-Dichloroethane	ND	1.9	0.62	ND	0.48	0.15	
71-55-6	1,1,1-Trichloroethane	**0.81**	1.9	0.66	**0.15**	0.36	0.12	**J**
71-43-2	Benzene	ND	1.9	0.62	ND	0.61	0.19	
56-23-5	Carbon Tetrachloride	ND	1.9	0.58	ND	0.31	0.092	
110-82-7	Cyclohexane	ND	3.9	1.1	ND	1.1	0.33	
78-87-5	1,2-Dichloropropane	ND	1.9	0.62	ND	0.42	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.58	ND	0.29	0.087	
79-01-6	Trichloroethene	ND	1.9	0.54	ND	0.36	0.10	
123-91-1	1,4-Dioxane	**0.75**	1.9	0.62	**0.21**	0.54	0.17	**J**
80-62-6	Methyl Methacrylate	ND	3.9	1.2	ND	0.95	0.29	
142-82-5	n-Heptane	ND	1.9	0.66	ND	0.47	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.54	ND	0.43	0.12	
108-10-1	4-Methyl-2-pentanone	**17**	1.9	0.62	**4.0**	0.47	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.62	ND	0.43	0.14	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.62	ND	0.36	0.11	
108-88-3	Toluene	**30**	1.9	0.66	**7.9**	0.51	0.17	
591-78-6	2-Hexanone	ND	1.9	0.62	ND	0.47	0.15	
124-48-1	Dibromochloromethane	ND	1.9	0.62	ND	0.23	0.073	
106-93-4	1,2-Dibromoethane	ND	1.9	0.62	ND	0.25	0.081	
123-86-4	n-Butyl Acetate	ND	1.9	0.62	ND	0.41	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00414

Initial Pressure (psig): 0.13 Final Pressure (psig): 8.28

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.91**	1.9	0.70	**0.19**	0.41	0.15	**J**
127-18-4	Tetrachloroethene	ND	1.9	0.54	ND	0.29	0.080	
108-90-7	Chlorobenzene	ND	1.9	0.62	ND	0.42	0.13	
100-41-4	Ethylbenzene	**13**	1.9	0.62	**3.0**	0.45	0.14	
179601-23-1	m,p-Xylenes	**54**	3.9	1.2	**12**	0.89	0.27	
75-25-2	Bromoform	ND	1.9	0.58	ND	0.19	0.056	
100-42-5	Styrene	**0.66**	1.9	0.58	**0.15**	0.46	0.14	**J**
95-47-6	o-Xylene	**20**	1.9	0.58	**4.7**	0.45	0.13	
111-84-2	n-Nonane	**1.6**	1.9	0.58	**0.30**	0.37	0.11	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.58	ND	0.28	0.085	
98-82-8	Cumene	**0.78**	1.9	0.58	**0.16**	0.39	0.12	**J**
80-56-8	alpha-Pinene	**3.5**	1.9	0.54	**0.63**	0.35	0.097	
103-65-1	n-Propylbenzene	**1.7**	1.9	0.62	**0.35**	0.39	0.13	**J**
622-96-8	4-Ethyltoluene	**3.5**	1.9	0.62	**0.71**	0.39	0.13	
108-67-8	1,3,5-Trimethylbenzene	**3.2**	1.9	0.62	**0.66**	0.39	0.13	
95-63-6	1,2,4-Trimethylbenzene	**8.6**	1.9	0.58	**1.7**	0.39	0.12	
100-44-7	Benzyl Chloride	ND	1.9	0.43	ND	0.37	0.082	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.58	ND	0.32	0.097	
106-46-7	1,4-Dichlorobenzene	**17**	1.9	0.54	**2.9**	0.32	0.090	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.58	ND	0.32	0.097	
5989-27-5	d-Limonene	**2.8**	1.9	0.54	**0.50**	0.35	0.097	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.38	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.62	ND	0.26	0.084	
91-20-3	Naphthalene	**2.2**	1.9	0.70	**0.41**	0.37	0.13	
87-68-3	Hexachlorobutadiene	ND	1.9	0.54	ND	0.18	0.051	

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

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-003

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00010

Initial Pressure (psig): 0.25 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.1**	1.7	0.47	**1.2**	0.97	0.27	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	1.7	0.57	**0.36**	0.34	0.11	
74-87-3	Chloromethane	**0.58**	1.7	0.50	**0.28**	0.81	0.24	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.63	ND	0.24	0.090	
75-01-4	Vinyl Chloride	ND	1.7	0.57	ND	0.65	0.22	
106-99-0	1,3-Butadiene	ND	1.7	0.73	ND	0.75	0.33	
74-83-9	Bromomethane	ND	1.7	0.63	ND	0.43	0.16	
75-00-3	Chloroethane	ND	1.7	0.57	ND	0.63	0.21	
64-17-5	Ethanol	**150**	17	2.7	**80**	8.8	1.4	
75-05-8	Acetonitrile	ND	1.7	0.60	ND	0.99	0.36	
107-02-8	Acrolein	ND	6.7	0.57	ND	2.9	0.25	
67-64-1	Acetone	**36**	17	2.6	**15**	7.0	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.57	**0.18**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.2**	17	1.4	**1.7**	6.8	0.57	**J**
107-13-1	Acrylonitrile	ND	1.7	0.57	ND	0.77	0.26	
75-35-4	1,1-Dichloroethene	ND	1.7	0.57	ND	0.42	0.14	
75-09-2	Methylene Chloride	ND	1.7	0.57	ND	0.48	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.53	ND	0.53	0.17	
76-13-1	Trichlorotrifluoroethane	**0.63**	1.7	0.57	**0.082**	0.22	0.074	**J**
75-15-0	Carbon Disulfide	ND	17	0.50	ND	5.3	0.16	
156-60-5	trans-1,2-Dichloroethene	**1.3**	1.7	0.63	**0.32**	0.42	0.16	**J**
75-34-3	1,1-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.57	ND	0.46	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.7	0.61	
78-93-3	2-Butanone (MEK)	**3.0**	17	0.70	**1.0**	5.6	0.24	**J**

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-003

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00010

Initial Pressure (psig): 0.25 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.53	ND	0.42	0.13	
141-78-6	Ethyl Acetate	ND	3.3	1.2	ND	0.92	0.32	
110-54-3	n-Hexane	**0.78**	1.7	0.50	**0.22**	0.47	0.14	**J**
67-66-3	Chloroform	ND	1.7	0.57	ND	0.34	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.67	ND	0.56	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
71-55-6	1,1,1-Trichloroethane	**1.0**	1.7	0.57	**0.18**	0.30	0.10	**J**
71-43-2	Benzene	**0.55**	1.7	0.53	**0.17**	0.52	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.50	ND	0.26	0.079	
110-82-7	Cyclohexane	ND	3.3	0.96	ND	0.97	0.28	
78-87-5	1,2-Dichloropropane	ND	1.7	0.53	ND	0.36	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.50	ND	0.25	0.074	
79-01-6	Trichloroethene	ND	1.7	0.47	ND	0.31	0.087	
123-91-1	1,4-Dioxane	**0.61**	1.7	0.53	**0.17**	0.46	0.15	**J**
80-62-6	Methyl Methacrylate	ND	3.3	1.0	ND	0.81	0.25	
142-82-5	n-Heptane	ND	1.7	0.57	ND	0.41	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.47	ND	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	**8.5**	1.7	0.53	**2.1**	0.41	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.53	ND	0.37	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.53	ND	0.30	0.098	
108-88-3	Toluene	**11**	1.7	0.57	**2.9**	0.44	0.15	
591-78-6	2-Hexanone	ND	1.7	0.53	ND	0.41	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.53	ND	0.20	0.062	
106-93-4	1,2-Dibromoethane	ND	1.7	0.53	ND	0.22	0.069	
123-86-4	n-Butyl Acetate	ND	1.7	0.53	ND	0.35	0.11	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-003

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00010

Initial Pressure (psig): 0.25 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.60	ND	0.36	0.13	
127-18-4	Tetrachloroethene	ND	1.7	0.47	ND	0.25	0.069	
108-90-7	Chlorobenzene	**0.66**	1.7	0.53	**0.14**	0.36	0.12	**J**
100-41-4	Ethylbenzene	**6.6**	1.7	0.53	**1.5**	0.38	0.12	
179601-23-1	m,p-Xylenes	**28**	3.3	1.0	**6.5**	0.77	0.23	
75-25-2	Bromoform	ND	1.7	0.50	ND	0.16	0.048	
100-42-5	Styrene	ND	1.7	0.50	ND	0.39	0.12	
95-47-6	o-Xylene	**11**	1.7	0.50	**2.6**	0.38	0.11	
111-84-2	n-Nonane	**1.1**	1.7	0.50	**0.21**	0.32	0.095	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.50	ND	0.24	0.073	
98-82-8	Cumene	**0.53**	1.7	0.50	**0.11**	0.34	0.10	**J**
80-56-8	alpha-Pinene	**1.4**	1.7	0.47	**0.26**	0.30	0.084	**J**
103-65-1	n-Propylbenzene	**1.2**	1.7	0.53	**0.24**	0.34	0.11	**J**
622-96-8	4-Ethyltoluene	**2.2**	1.7	0.53	**0.44**	0.34	0.11	
108-67-8	1,3,5-Trimethylbenzene	**2.5**	1.7	0.53	**0.51**	0.34	0.11	
95-63-6	1,2,4-Trimethylbenzene	**7.1**	1.7	0.50	**1.4**	0.34	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.37	ND	0.32	0.071	
541-73-1	1,3-Dichlorobenzene	**10**	1.7	0.50	**1.7**	0.28	0.083	
106-46-7	1,4-Dichlorobenzene	**9.2**	1.7	0.47	**1.5**	0.28	0.077	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.50	ND	0.28	0.083	
5989-27-5	d-Limonene	**1.4**	1.7	0.47	**0.24**	0.30	0.084	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.33	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.53	ND	0.22	0.072	
91-20-3	Naphthalene	ND	1.7	0.60	ND	0.32	0.11	
87-68-3	Hexachlorobutadiene	ND	1.7	0.47	ND	0.16	0.044	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-004

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00563

Initial Pressure (psig): 0.28 Final Pressure (psig): 5.08

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.3**	1.7	0.46	**0.75**	0.96	0.27	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	1.7	0.56	**0.36**	0.33	0.11	
74-87-3	Chloromethane	ND	1.7	0.50	ND	0.80	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.63	ND	0.24	0.090	
75-01-4	Vinyl Chloride	ND	1.7	0.56	ND	0.65	0.22	
106-99-0	1,3-Butadiene	ND	1.7	0.73	ND	0.75	0.33	
74-83-9	Bromomethane	ND	1.7	0.63	ND	0.43	0.16	
75-00-3	Chloroethane	ND	1.7	0.56	ND	0.63	0.21	
64-17-5	Ethanol	**33**	17	2.6	**18**	8.8	1.4	
75-05-8	Acetonitrile	ND	1.7	0.59	ND	0.98	0.35	
107-02-8	Acrolein	**0.76**	6.6	0.56	**0.33**	2.9	0.24	**J**
67-64-1	Acetone	**24**	17	2.5	**10**	6.9	1.1	
75-69-4	Trichlorofluoromethane	**1.1**	1.7	0.56	**0.20**	0.29	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.5**	17	1.4	**0.61**	6.7	0.56	**J**
107-13-1	Acrylonitrile	ND	1.7	0.56	ND	0.76	0.26	
75-35-4	1,1-Dichloroethene	**2.7**	1.7	0.56	**0.69**	0.42	0.14	
75-09-2	Methylene Chloride	ND	1.7	0.56	ND	0.48	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.53	ND	0.53	0.17	
76-13-1	Trichlorotrifluoroethane	**9.4**	1.7	0.56	**1.2**	0.22	0.073	
75-15-0	Carbon Disulfide	**10**	17	0.50	**3.3**	5.3	0.16	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.63	ND	0.42	0.16	
75-34-3	1,1-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.56	ND	0.46	0.16	
108-05-4	Vinyl Acetate	**3.1**	17	2.1	**0.88**	4.7	0.61	**J**
78-93-3	2-Butanone (MEK)	**3.1**	17	0.69	**1.0**	5.6	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-004

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00563

Initial Pressure (psig): 0.28 Final Pressure (psig): 5.08

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.53	ND	0.42	0.13	
141-78-6	Ethyl Acetate	**5.5**	3.3	1.2	**1.5**	0.92	0.32	
110-54-3	n-Hexane	**0.62**	1.7	0.50	**0.18**	0.47	0.14	**J**
67-66-3	Chloroform	ND	1.7	0.56	ND	0.34	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.66	ND	0.56	0.22	
107-06-2	1,2-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
71-55-6	1,1,1-Trichloroethane	**3.2**	1.7	0.56	**0.58**	0.30	0.10	
71-43-2	Benzene	ND	1.7	0.53	ND	0.52	0.17	
56-23-5	Carbon Tetrachloride	ND	1.7	0.50	ND	0.26	0.079	
110-82-7	Cyclohexane	ND	3.3	0.96	ND	0.96	0.28	
78-87-5	1,2-Dichloropropane	ND	1.7	0.53	ND	0.36	0.11	
75-27-4	Bromodichloromethane	ND	1.7	0.50	ND	0.25	0.074	
79-01-6	Trichloroethene	ND	1.7	0.46	ND	0.31	0.086	
123-91-1	1,4-Dioxane	ND	1.7	0.53	ND	0.46	0.15	
80-62-6	Methyl Methacrylate	ND	3.3	1.0	ND	0.81	0.25	
142-82-5	n-Heptane	ND	1.7	0.56	ND	0.40	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.46	ND	0.36	0.10	
108-10-1	4-Methyl-2-pentanone	**3.9**	1.7	0.53	**0.95**	0.40	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.53	ND	0.36	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.53	ND	0.30	0.097	
108-88-3	Toluene	**6.5**	1.7	0.56	**1.7**	0.44	0.15	
591-78-6	2-Hexanone	ND	1.7	0.53	ND	0.40	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.53	ND	0.19	0.062	
106-93-4	1,2-Dibromoethane	ND	1.7	0.53	ND	0.21	0.069	
123-86-4	n-Butyl Acetate	ND	1.7	0.53	ND	0.35	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-004

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00563

Initial Pressure (psig): 0.28 Final Pressure (psig): 5.08

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.59	ND	0.35	0.13	
127-18-4	Tetrachloroethene	**0.60**	1.7	0.46	**0.089**	0.24	0.068	**J**
108-90-7	Chlorobenzene	ND	1.7	0.53	ND	0.36	0.11	
100-41-4	Ethylbenzene	**6.5**	1.7	0.53	**1.5**	0.38	0.12	
179601-23-1	m,p-Xylenes	**29**	3.3	0.99	**6.8**	0.76	0.23	
75-25-2	Bromoform	ND	1.7	0.50	ND	0.16	0.048	
100-42-5	Styrene	ND	1.7	0.50	ND	0.39	0.12	
95-47-6	o-Xylene	**13**	1.7	0.50	**3.0**	0.38	0.11	
111-84-2	n-Nonane	**0.80**	1.7	0.50	**0.15**	0.31	0.094	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.50	ND	0.24	0.072	
98-82-8	Cumene	**0.58**	1.7	0.50	**0.12**	0.34	0.10	**J**
80-56-8	alpha-Pinene	**0.96**	1.7	0.46	**0.17**	0.30	0.083	**J**
103-65-1	n-Propylbenzene	**1.3**	1.7	0.53	**0.26**	0.34	0.11	**J**
622-96-8	4-Ethyltoluene	**2.3**	1.7	0.53	**0.47**	0.34	0.11	
108-67-8	1,3,5-Trimethylbenzene	**3.4**	1.7	0.53	**0.70**	0.34	0.11	
95-63-6	1,2,4-Trimethylbenzene	**8.4**	1.7	0.50	**1.7**	0.34	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.36	ND	0.32	0.070	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.50	ND	0.27	0.082	
106-46-7	1,4-Dichlorobenzene	**6.5**	1.7	0.46	**1.1**	0.27	0.077	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.50	ND	0.27	0.082	
5989-27-5	d-Limonene	**1.1**	1.7	0.46	**0.20**	0.30	0.083	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.33	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.53	ND	0.22	0.071	
91-20-3	Naphthalene	ND	1.7	0.59	ND	0.31	0.11	
87-68-3	Hexachlorobutadiene	ND	1.7	0.46	ND	0.15	0.043	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-005

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00169

Initial Pressure (psig): 0.29 Final Pressure (psig): 5.14

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.46	ND	0.96	0.27	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.7	0.56	**0.35**	0.33	0.11	
74-87-3	Chloromethane	ND	1.7	0.50	ND	0.80	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.63	ND	0.24	0.090	
75-01-4	Vinyl Chloride	ND	1.7	0.56	ND	0.65	0.22	
106-99-0	1,3-Butadiene	ND	1.7	0.73	ND	0.75	0.33	
74-83-9	Bromomethane	ND	1.7	0.63	ND	0.43	0.16	
75-00-3	Chloroethane	ND	1.7	0.56	ND	0.63	0.21	
64-17-5	Ethanol	**24**	17	2.6	**13**	8.8	1.4	
75-05-8	Acetonitrile	ND	1.7	0.59	ND	0.98	0.35	
107-02-8	Acrolein	**1.2**	6.6	0.56	**0.51**	2.9	0.24	**J**
67-64-1	Acetone	**34**	17	2.5	**14**	6.9	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.56	**0.18**	0.29	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.6**	17	1.4	**0.64**	6.7	0.56	**J**
107-13-1	Acrylonitrile	ND	1.7	0.56	ND	0.76	0.26	
75-35-4	1,1-Dichloroethene	ND	1.7	0.56	ND	0.42	0.14	
75-09-2	Methylene Chloride	ND	1.7	0.56	ND	0.48	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.53	ND	0.53	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.56	ND	0.22	0.073	
75-15-0	Carbon Disulfide	**1.0**	17	0.50	**0.32**	5.3	0.16	**J**
156-60-5	trans-1,2-Dichloroethene	**0.72**	1.7	0.63	**0.18**	0.42	0.16	**J**
75-34-3	1,1-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.56	ND	0.46	0.16	
108-05-4	Vinyl Acetate	**3.7**	17	2.1	**1.1**	4.7	0.61	**J**
78-93-3	2-Butanone (MEK)	**3.5**	17	0.69	**1.2**	5.6	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-005

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00169

Initial Pressure (psig): 0.29 Final Pressure (psig): 5.14

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.53	ND	0.42	0.13	
141-78-6	Ethyl Acetate	**2.1**	3.3	1.2	**0.59**	0.92	0.32	**J**
110-54-3	n-Hexane	ND	1.7	0.50	ND	0.47	0.14	
67-66-3	Chloroform	ND	1.7	0.56	ND	0.34	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.66	ND	0.56	0.22	
107-06-2	1,2-Dichloroethane	ND	1.7	0.53	ND	0.41	0.13	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.56	ND	0.30	0.10	
71-43-2	Benzene	ND	1.7	0.53	ND	0.52	0.17	
56-23-5	Carbon Tetrachloride	ND	1.7	0.50	ND	0.26	0.079	
110-82-7	Cyclohexane	ND	3.3	0.96	ND	0.96	0.28	
78-87-5	1,2-Dichloropropane	ND	1.7	0.53	ND	0.36	0.11	
75-27-4	Bromodichloromethane	ND	1.7	0.50	ND	0.25	0.074	
79-01-6	Trichloroethene	ND	1.7	0.46	ND	0.31	0.086	
123-91-1	1,4-Dioxane	ND	1.7	0.53	ND	0.46	0.15	
80-62-6	Methyl Methacrylate	ND	3.3	1.0	ND	0.81	0.25	
142-82-5	n-Heptane	ND	1.7	0.56	ND	0.40	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.46	ND	0.36	0.10	
108-10-1	4-Methyl-2-pentanone	**9.3**	1.7	0.53	**2.3**	0.40	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.53	ND	0.36	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.53	ND	0.30	0.097	
108-88-3	Toluene	**5.3**	1.7	0.56	**1.4**	0.44	0.15	
591-78-6	2-Hexanone	ND	1.7	0.53	ND	0.40	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.53	ND	0.19	0.062	
106-93-4	1,2-Dibromoethane	ND	1.7	0.53	ND	0.21	0.069	
123-86-4	n-Butyl Acetate	ND	1.7	0.53	ND	0.35	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-005

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00169

Initial Pressure (psig): 0.29 Final Pressure (psig): 5.14

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.59	ND	0.35	0.13	
127-18-4	Tetrachloroethene	**0.79**	1.7	0.46	**0.12**	0.24	0.068	**J**
108-90-7	Chlorobenzene	ND	1.7	0.53	ND	0.36	0.11	
100-41-4	Ethylbenzene	**6.1**	1.7	0.53	**1.4**	0.38	0.12	
179601-23-1	m,p-Xylenes	**25**	3.3	0.99	**5.7**	0.76	0.23	
75-25-2	Bromoform	ND	1.7	0.50	ND	0.16	0.048	
100-42-5	Styrene	ND	1.7	0.50	ND	0.39	0.12	
95-47-6	o-Xylene	**9.3**	1.7	0.50	**2.1**	0.38	0.11	
111-84-2	n-Nonane	**0.67**	1.7	0.50	**0.13**	0.31	0.094	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.50	ND	0.24	0.072	
98-82-8	Cumene	ND	1.7	0.50	ND	0.34	0.10	
80-56-8	alpha-Pinene	**1.1**	1.7	0.46	**0.20**	0.30	0.083	**J**
103-65-1	n-Propylbenzene	**0.83**	1.7	0.53	**0.17**	0.34	0.11	**J**
622-96-8	4-Ethyltoluene	**1.8**	1.7	0.53	**0.36**	0.34	0.11	
108-67-8	1,3,5-Trimethylbenzene	**1.8**	1.7	0.53	**0.36**	0.34	0.11	
95-63-6	1,2,4-Trimethylbenzene	**4.7**	1.7	0.50	**0.96**	0.34	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.36	ND	0.32	0.070	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.50	ND	0.27	0.082	
106-46-7	1,4-Dichlorobenzene	**5.3**	1.7	0.46	**0.87**	0.27	0.077	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.50	ND	0.27	0.082	
5989-27-5	d-Limonene	**0.71**	1.7	0.46	**0.13**	0.30	0.083	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.33	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.53	ND	0.22	0.071	
91-20-3	Naphthalene	ND	1.7	0.59	ND	0.31	0.11	
87-68-3	Hexachlorobutadiene	ND	1.7	0.46	ND	0.15	0.043	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-006

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00823

Initial Pressure (psig): 0.26 Final Pressure (psig): 6.07

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.49	ND	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.7	0.59	**0.35**	0.35	0.12	**J**
74-87-3	Chloromethane	**0.53**	1.7	0.52	**0.26**	0.84	0.25	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.66	ND	0.25	0.094	
75-01-4	Vinyl Chloride	ND	1.7	0.59	ND	0.68	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.76	ND	0.79	0.35	
74-83-9	Bromomethane	ND	1.7	0.66	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.7	0.59	ND	0.66	0.22	
64-17-5	Ethanol	**220**	17	2.8	**120**	9.2	1.5	
75-05-8	Acetonitrile	ND	1.7	0.63	ND	1.0	0.37	
107-02-8	Acrolein	**1.3**	7.0	0.59	**0.58**	3.0	0.26	**J**
67-64-1	Acetone	**3,700**	170	27	**1,600**	73	11	**D**
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.59	**0.18**	0.31	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.5**	17	1.5	**2.6**	7.1	0.59	**J**
107-13-1	Acrylonitrile	ND	1.7	0.59	ND	0.80	0.27	
75-35-4	1,1-Dichloroethene	**16**	1.7	0.59	**4.1**	0.44	0.15	
75-09-2	Methylene Chloride	ND	1.7	0.59	ND	0.50	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	**0.71**	1.7	0.59	**0.092**	0.23	0.077	**J**
75-15-0	Carbon Disulfide	ND	17	0.52	ND	5.6	0.17	
156-60-5	trans-1,2-Dichloroethene	**0.67**	1.7	0.66	**0.17**	0.44	0.17	**J**
75-34-3	1,1-Dichloroethane	**4.8**	1.7	0.56	**1.2**	0.43	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.59	ND	0.48	0.16	
108-05-4	Vinyl Acetate	**4.5**	17	2.3	**1.3**	4.9	0.64	**J**
78-93-3	2-Butanone (MEK)	**8.4**	17	0.73	**2.8**	5.9	0.25	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-006

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00823

Initial Pressure (psig): 0.26 Final Pressure (psig): 6.07

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.56	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**1.4**	3.5	1.2	**0.40**	0.96	0.34	**J**
110-54-3	n-Hexane	ND	1.7	0.52	ND	0.49	0.15	
67-66-3	Chloroform	**0.93**	1.7	0.59	**0.19**	0.36	0.12	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.70	ND	0.59	0.24	
107-06-2	1,2-Dichloroethane	ND	1.7	0.56	ND	0.43	0.14	
71-55-6	1,1,1-Trichloroethane	**88**	1.7	0.59	**16**	0.32	0.11	
71-43-2	Benzene	**0.65**	1.7	0.56	**0.20**	0.54	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.52	ND	0.28	0.083	
110-82-7	Cyclohexane	ND	3.5	1.0	ND	1.0	0.29	
78-87-5	1,2-Dichloropropane	ND	1.7	0.56	ND	0.38	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.52	ND	0.26	0.078	
79-01-6	Trichloroethene	**1.4**	1.7	0.49	**0.26**	0.32	0.091	**J**
123-91-1	1,4-Dioxane	ND	1.7	0.56	ND	0.48	0.15	
80-62-6	Methyl Methacrylate	**1.4**	3.5	1.1	**0.33**	0.85	0.26	**J**
142-82-5	n-Heptane	ND	1.7	0.59	ND	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.49	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**8.3**	1.7	0.56	**2.0**	0.42	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.56	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	**1.9**	1.7	0.56	**0.34**	0.32	0.10	
108-88-3	Toluene	**67**	1.7	0.59	**18**	0.46	0.16	
591-78-6	2-Hexanone	**0.66**	1.7	0.56	**0.16**	0.42	0.14	**J**
124-48-1	Dibromochloromethane	ND	1.7	0.56	ND	0.20	0.065	
106-93-4	1,2-Dibromoethane	ND	1.7	0.56	ND	0.23	0.072	
123-86-4	n-Butyl Acetate	**2.0**	1.7	0.56	**0.41**	0.37	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-006

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00823

Initial Pressure (psig): 0.26 Final Pressure (psig): 6.07

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.63	ND	0.37	0.13	
127-18-4	Tetrachloroethene	**5.4**	1.7	0.49	**0.79**	0.26	0.072	
108-90-7	Chlorobenzene	ND	1.7	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**88**	1.7	0.56	**20**	0.40	0.13	
179601-23-1	m,p-Xylenes	**360**	3.5	1.0	**82**	0.80	0.24	
75-25-2	Bromoform	ND	1.7	0.52	ND	0.17	0.050	
100-42-5	Styrene	ND	1.7	0.52	ND	0.41	0.12	
95-47-6	o-Xylene	**110**	1.7	0.52	**25**	0.40	0.12	
111-84-2	n-Nonane	**1.0**	1.7	0.52	**0.20**	0.33	0.099	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.52	ND	0.25	0.076	
98-82-8	Cumene	**0.95**	1.7	0.52	**0.19**	0.35	0.11	**J**
80-56-8	alpha-Pinene	**0.71**	1.7	0.49	**0.13**	0.31	0.087	**J**
103-65-1	n-Propylbenzene	**0.95**	1.7	0.56	**0.19**	0.35	0.11	**J**
622-96-8	4-Ethyltoluene	**1.8**	1.7	0.56	**0.36**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**2.1**	1.7	0.56	**0.42**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**5.8**	1.7	0.52	**1.2**	0.35	0.11	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.34	0.074	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.087	
106-46-7	1,4-Dichlorobenzene	**8.6**	1.7	0.49	**1.4**	0.29	0.081	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.087	
5989-27-5	d-Limonene	**0.88**	1.7	0.49	**0.16**	0.31	0.087	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.56	ND	0.23	0.075	
91-20-3	Naphthalene	**1.0**	1.7	0.63	**0.19**	0.33	0.12	**J**
87-68-3	Hexachlorobutadiene	ND	1.7	0.49	ND	0.16	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-007

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00431

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	1.7	0.47	**1.5**	0.97	0.27	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.7	0.57	**0.35**	0.34	0.12	
74-87-3	Chloromethane	ND	1.7	0.50	ND	0.81	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.64	ND	0.24	0.091	
75-01-4	Vinyl Chloride	ND	1.7	0.57	ND	0.66	0.22	
106-99-0	1,3-Butadiene	ND	1.7	0.74	ND	0.76	0.33	
74-83-9	Bromomethane	ND	1.7	0.64	ND	0.43	0.16	
75-00-3	Chloroethane	ND	1.7	0.57	ND	0.64	0.22	
64-17-5	Ethanol	**270**	17	2.7	**140**	8.9	1.4	
75-05-8	Acetonitrile	ND	1.7	0.60	ND	1.0	0.36	
107-02-8	Acrolein	**0.94**	6.7	0.57	**0.41**	2.9	0.25	**J**
67-64-1	Acetone	**750**	17	2.6	**320**	7.1	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.57	**0.19**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.5**	17	1.4	**3.1**	6.8	0.57	**J**
107-13-1	Acrylonitrile	ND	1.7	0.57	ND	0.77	0.26	
75-35-4	1,1-Dichloroethene	**0.67**	1.7	0.57	**0.17**	0.42	0.14	**J**
75-09-2	Methylene Chloride	ND	1.7	0.57	ND	0.48	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.54	ND	0.54	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.57	ND	0.22	0.074	
75-15-0	Carbon Disulfide	**0.76**	17	0.50	**0.24**	5.4	0.16	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.64	ND	0.42	0.16	
75-34-3	1,1-Dichloroethane	ND	1.7	0.54	ND	0.41	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.57	ND	0.46	0.16	
108-05-4	Vinyl Acetate	**3.9**	17	2.2	**1.1**	4.8	0.62	**J**
78-93-3	2-Butanone (MEK)	**10**	17	0.70	**3.5**	5.7	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-007

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00431

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.54	ND	0.42	0.14	
141-78-6	Ethyl Acetate	ND	3.4	1.2	ND	0.93	0.33	
110-54-3	n-Hexane	**0.78**	1.7	0.50	**0.22**	0.48	0.14	**J**
67-66-3	Chloroform	ND	1.7	0.57	ND	0.34	0.12	
109-99-9	Tetrahydrofuran (THF)	**2.2**	1.7	0.67	**0.74**	0.57	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.54	ND	0.41	0.13	
71-55-6	1,1,1-Trichloroethane	**4.7**	1.7	0.57	**0.86**	0.31	0.10	
71-43-2	Benzene	**0.56**	1.7	0.54	**0.18**	0.52	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.50	ND	0.27	0.080	
110-82-7	Cyclohexane	ND	3.4	0.97	ND	0.97	0.28	
78-87-5	1,2-Dichloropropane	ND	1.7	0.54	ND	0.36	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.50	ND	0.25	0.075	
79-01-6	Trichloroethene	ND	1.7	0.47	ND	0.31	0.087	
123-91-1	1,4-Dioxane	ND	1.7	0.54	ND	0.46	0.15	
80-62-6	Methyl Methacrylate	ND	3.4	1.0	ND	0.82	0.25	
142-82-5	n-Heptane	ND	1.7	0.57	ND	0.41	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.47	ND	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	**7.0**	1.7	0.54	**1.7**	0.41	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.54	ND	0.37	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.54	ND	0.31	0.098	
108-88-3	Toluene	**45**	1.7	0.57	**12**	0.44	0.15	
591-78-6	2-Hexanone	ND	1.7	0.54	ND	0.41	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.54	ND	0.20	0.063	
106-93-4	1,2-Dibromoethane	ND	1.7	0.54	ND	0.22	0.070	
123-86-4	n-Butyl Acetate	**1.1**	1.7	0.54	**0.22**	0.35	0.11	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-007

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00431

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.18

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.60	ND	0.36	0.13	
127-18-4	Tetrachloroethene	**1.5**	1.7	0.47	**0.22**	0.25	0.069	**J**
108-90-7	Chlorobenzene	ND	1.7	0.54	ND	0.36	0.12	
100-41-4	Ethylbenzene	**42**	1.7	0.54	**9.6**	0.39	0.12	
179601-23-1	m,p-Xylenes	**180**	3.4	1.0	**41**	0.77	0.23	
75-25-2	Bromoform	ND	1.7	0.50	ND	0.16	0.049	
100-42-5	Styrene	**0.63**	1.7	0.50	**0.15**	0.39	0.12	**J**
95-47-6	o-Xylene	**57**	1.7	0.50	**13**	0.39	0.12	
111-84-2	n-Nonane	**1.5**	1.7	0.50	**0.30**	0.32	0.096	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.50	ND	0.24	0.073	
98-82-8	Cumene	**0.99**	1.7	0.50	**0.20**	0.34	0.10	**J**
80-56-8	alpha-Pinene	**3.5**	1.7	0.47	**0.62**	0.30	0.084	
103-65-1	n-Propylbenzene	**1.7**	1.7	0.54	**0.35**	0.34	0.11	
622-96-8	4-Ethyltoluene	**3.2**	1.7	0.54	**0.65**	0.34	0.11	
108-67-8	1,3,5-Trimethylbenzene	**3.6**	1.7	0.54	**0.73**	0.34	0.11	
95-63-6	1,2,4-Trimethylbenzene	**10**	1.7	0.50	**2.1**	0.34	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.37	ND	0.32	0.071	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.50	ND	0.28	0.084	
106-46-7	1,4-Dichlorobenzene	**28**	1.7	0.47	**4.7**	0.28	0.078	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.50	ND	0.28	0.084	
5989-27-5	d-Limonene	**3.1**	1.7	0.47	**0.56**	0.30	0.084	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.33	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.54	ND	0.23	0.072	
91-20-3	Naphthalene	**0.71**	1.7	0.60	**0.14**	0.32	0.12	**J**
87-68-3	Hexachlorobutadiene	ND	1.7	0.47	ND	0.16	0.044	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-008

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00400

Initial Pressure (psig): 0.04 Final Pressure (psig): 5.52

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.5**	1.7	0.48	**2.1**	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.7	0.58	**0.34**	0.35	0.12	**J**
74-87-3	Chloromethane	ND	1.7	0.51	ND	0.83	0.25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.65	ND	0.25	0.093	
75-01-4	Vinyl Chloride	ND	1.7	0.58	ND	0.67	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.75	ND	0.77	0.34	
74-83-9	Bromomethane	ND	1.7	0.65	ND	0.44	0.17	
75-00-3	Chloroethane	ND	1.7	0.58	ND	0.65	0.22	
64-17-5	Ethanol	**74**	17	2.7	**39**	9.1	1.5	
75-05-8	Acetonitrile	ND	1.7	0.62	ND	1.0	0.37	
107-02-8	Acrolein	**1.3**	6.9	0.58	**0.57**	3.0	0.25	**J**
67-64-1	Acetone	**350**	17	2.6	**150**	7.2	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.58	**0.18**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.2**	17	1.4	**2.1**	7.0	0.59	**J**
107-13-1	Acrylonitrile	ND	1.7	0.58	ND	0.79	0.27	
75-35-4	1,1-Dichloroethene	**76**	1.7	0.58	**19**	0.43	0.15	
75-09-2	Methylene Chloride	ND	1.7	0.58	ND	0.49	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.55	ND	0.55	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.58	ND	0.22	0.076	
75-15-0	Carbon Disulfide	**70**	17	0.51	**22**	5.5	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.65	ND	0.43	0.16	
75-34-3	1,1-Dichloroethane	**5.2**	1.7	0.55	**1.3**	0.42	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.58	ND	0.48	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.9	0.63	
78-93-3	2-Butanone (MEK)	**21**	17	0.72	**7.0**	5.8	0.24	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-008

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00400

Initial Pressure (psig): 0.04 Final Pressure (psig): 5.52

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.55	ND	0.43	0.14	
141-78-6	Ethyl Acetate	**3.5**	3.4	1.2	**0.98**	0.95	0.33	
110-54-3	n-Hexane	**1.0**	1.7	0.51	**0.29**	0.49	0.15	**J**
67-66-3	Chloroform	ND	1.7	0.58	ND	0.35	0.12	
109-99-9	Tetrahydrofuran (THF)	**6.1**	1.7	0.69	**2.1**	0.58	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.55	ND	0.42	0.14	
71-55-6	1,1,1-Trichloroethane	**13**	1.7	0.58	**2.4**	0.31	0.11	
71-43-2	Benzene	**0.79**	1.7	0.55	**0.25**	0.54	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.51	ND	0.27	0.082	
110-82-7	Cyclohexane	ND	3.4	0.99	ND	1.0	0.29	
78-87-5	1,2-Dichloropropane	ND	1.7	0.55	ND	0.37	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.51	ND	0.26	0.077	
79-01-6	Trichloroethene	**0.49**	1.7	0.48	**0.091**	0.32	0.089	**J**
123-91-1	1,4-Dioxane	**1.7**	1.7	0.55	**0.47**	0.48	0.15	**J**
80-62-6	Methyl Methacrylate	ND	3.4	1.1	ND	0.84	0.26	
142-82-5	n-Heptane	ND	1.7	0.58	ND	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**4.5**	1.7	0.55	**1.1**	0.42	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.55	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.55	ND	0.31	0.10	
108-88-3	Toluene	**39**	1.7	0.58	**10**	0.45	0.15	
591-78-6	2-Hexanone	ND	1.7	0.55	ND	0.42	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.55	ND	0.20	0.064	
106-93-4	1,2-Dibromoethane	ND	1.7	0.55	ND	0.22	0.071	
123-86-4	n-Butyl Acetate	**0.57**	1.7	0.55	**0.12**	0.36	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-008

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00400

Initial Pressure (psig): 0.04 Final Pressure (psig): 5.52

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.64**	1.7	0.62	**0.14**	0.37	0.13	**J**
127-18-4	Tetrachloroethene	**2.7**	1.7	0.48	**0.40**	0.25	0.071	
108-90-7	Chlorobenzene	ND	1.7	0.55	ND	0.37	0.12	
100-41-4	Ethylbenzene	**27**	1.7	0.55	**6.2**	0.39	0.13	
179601-23-1	m,p-Xylenes	**110**	3.4	1.0	**26**	0.79	0.24	
75-25-2	Bromoform	ND	1.7	0.51	ND	0.17	0.050	
100-42-5	Styrene	ND	1.7	0.51	ND	0.40	0.12	
95-47-6	o-Xylene	**37**	1.7	0.51	**8.5**	0.39	0.12	
111-84-2	n-Nonane	**1.2**	1.7	0.51	**0.22**	0.33	0.098	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.51	ND	0.25	0.075	
98-82-8	Cumene	**0.77**	1.7	0.51	**0.16**	0.35	0.10	**J**
80-56-8	alpha-Pinene	**2.7**	1.7	0.48	**0.49**	0.31	0.086	
103-65-1	n-Propylbenzene	**1.3**	1.7	0.55	**0.27**	0.35	0.11	**J**
622-96-8	4-Ethyltoluene	**2.4**	1.7	0.55	**0.49**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**2.9**	1.7	0.55	**0.59**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**7.9**	1.7	0.51	**1.6**	0.35	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.33	0.073	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
106-46-7	1,4-Dichlorobenzene	**19**	1.7	0.48	**3.2**	0.28	0.080	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
5989-27-5	d-Limonene	**2.3**	1.7	0.48	**0.41**	0.31	0.086	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.55	ND	0.23	0.074	
91-20-3	Naphthalene	**0.70**	1.7	0.62	**0.13**	0.33	0.12	**J**
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	0.045	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-009

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00779

Initial Pressure (psig): 0.05 Final Pressure (psig): 5.50

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.6**	1.7	0.48	**2.1**	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.7	0.58	**0.34**	0.35	0.12	**J**
74-87-3	Chloromethane	ND	1.7	0.51	ND	0.83	0.25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.65	ND	0.25	0.093	
75-01-4	Vinyl Chloride	ND	1.7	0.58	ND	0.67	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.75	ND	0.77	0.34	
74-83-9	Bromomethane	ND	1.7	0.65	ND	0.44	0.17	
75-00-3	Chloroethane	ND	1.7	0.58	ND	0.65	0.22	
64-17-5	Ethanol	**280**	17	2.7	**150**	9.1	1.5	
75-05-8	Acetonitrile	**0.96**	1.7	0.62	**0.57**	1.0	0.37	**J**
107-02-8	Acrolein	**2.0**	6.9	0.58	**0.86**	3.0	0.25	**J**
67-64-1	Acetone	**560**	17	2.6	**230**	7.2	1.1	
75-69-4	Trichlorofluoromethane	**1.0**	1.7	0.58	**0.18**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**9.9**	17	1.4	**4.0**	7.0	0.59	**J**
107-13-1	Acrylonitrile	ND	1.7	0.58	ND	0.79	0.27	
75-35-4	1,1-Dichloroethene	**3.1**	1.7	0.58	**0.79**	0.43	0.15	
75-09-2	Methylene Chloride	ND	1.7	0.58	ND	0.49	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.55	ND	0.55	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.58	ND	0.22	0.076	
75-15-0	Carbon Disulfide	**0.80**	17	0.51	**0.26**	5.5	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.65	ND	0.43	0.16	
75-34-3	1,1-Dichloroethane	ND	1.7	0.55	ND	0.42	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.58	ND	0.48	0.16	
108-05-4	Vinyl Acetate	**34**	17	2.2	**9.7**	4.9	0.63	
78-93-3	2-Butanone (MEK)	**34**	17	0.72	**12**	5.8	0.24	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-009

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00779

Initial Pressure (psig): 0.05 Final Pressure (psig): 5.50

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.55	ND	0.43	0.14	
141-78-6	Ethyl Acetate	ND	3.4	1.2	ND	0.95	0.33	
110-54-3	n-Hexane	**1.3**	1.7	0.51	**0.36**	0.49	0.15	**J**
67-66-3	Chloroform	ND	1.7	0.58	ND	0.35	0.12	
109-99-9	Tetrahydrofuran (THF)	**11**	1.7	0.69	**3.9**	0.58	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.55	ND	0.42	0.14	
71-55-6	1,1,1-Trichloroethane	**2.9**	1.7	0.58	**0.52**	0.31	0.11	
71-43-2	Benzene	**0.69**	1.7	0.55	**0.22**	0.54	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.51	ND	0.27	0.082	
110-82-7	Cyclohexane	**1.5**	3.4	0.99	**0.44**	1.0	0.29	**J**
78-87-5	1,2-Dichloropropane	ND	1.7	0.55	ND	0.37	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.51	ND	0.26	0.077	
79-01-6	Trichloroethene	ND	1.7	0.48	ND	0.32	0.089	
123-91-1	1,4-Dioxane	ND	1.7	0.55	ND	0.48	0.15	
80-62-6	Methyl Methacrylate	ND	3.4	1.1	ND	0.84	0.26	
142-82-5	n-Heptane	ND	1.7	0.58	ND	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**7.2**	1.7	0.55	**1.8**	0.42	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.55	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.55	ND	0.31	0.10	
108-88-3	Toluene	**47**	1.7	0.58	**12**	0.45	0.15	
591-78-6	2-Hexanone	**0.82**	1.7	0.55	**0.20**	0.42	0.13	**J**
124-48-1	Dibromochloromethane	ND	1.7	0.55	ND	0.20	0.064	
106-93-4	1,2-Dibromoethane	ND	1.7	0.55	ND	0.22	0.071	
123-86-4	n-Butyl Acetate	ND	1.7	0.55	ND	0.36	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-009

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00779

Initial Pressure (psig): 0.05 Final Pressure (psig): 5.50

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.63**	1.7	0.62	**0.13**	0.37	0.13	**J**
127-18-4	Tetrachloroethene	**1.0**	1.7	0.48	**0.15**	0.25	0.071	**J**
108-90-7	Chlorobenzene	ND	1.7	0.55	ND	0.37	0.12	
100-41-4	Ethylbenzene	**30**	1.7	0.55	**7.0**	0.39	0.13	
179601-23-1	m,p-Xylenes	**120**	3.4	1.0	**28**	0.79	0.24	
75-25-2	Bromoform	ND	1.7	0.51	ND	0.17	0.050	
100-42-5	Styrene	**3.0**	1.7	0.51	**0.71**	0.40	0.12	
95-47-6	o-Xylene	**42**	1.7	0.51	**9.7**	0.39	0.12	
111-84-2	n-Nonane	**1.4**	1.7	0.51	**0.27**	0.33	0.098	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.51	ND	0.25	0.075	
98-82-8	Cumene	**1.3**	1.7	0.51	**0.26**	0.35	0.10	**J**
80-56-8	alpha-Pinene	**3.4**	1.7	0.48	**0.60**	0.31	0.086	
103-65-1	n-Propylbenzene	**2.2**	1.7	0.55	**0.45**	0.35	0.11	
622-96-8	4-Ethyltoluene	**3.9**	1.7	0.55	**0.80**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**4.9**	1.7	0.55	**0.99**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**12**	1.7	0.51	**2.4**	0.35	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.33	0.073	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
106-46-7	1,4-Dichlorobenzene	**30**	1.7	0.48	**5.0**	0.28	0.080	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
5989-27-5	d-Limonene	**4.0**	1.7	0.48	**0.71**	0.31	0.086	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.55	ND	0.23	0.074	
91-20-3	Naphthalene	**1.5**	1.7	0.62	**0.29**	0.33	0.12	**J**
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE EXHAUST** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-010

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25 - 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.075 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SC01232

Initial Pressure (psig): 1.46 Final Pressure (psig): 4.50

Canister Dilution Factor: 1.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	7.9	2.2	ND	4.6	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	**3.0**	7.9	2.7	**0.61**	1.6	0.55	**J**
74-87-3	Chloromethane	ND	7.9	2.4	ND	3.8	1.2	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.9	3.0	ND	1.1	0.43	
75-01-4	Vinyl Chloride	ND	7.9	2.7	ND	3.1	1.1	
106-99-0	1,3-Butadiene	ND	7.9	3.5	ND	3.6	1.6	
74-83-9	Bromomethane	ND	7.9	3.0	ND	2.0	0.78	
75-00-3	Chloroethane	ND	7.9	2.7	ND	3.0	1.0	
64-17-5	Ethanol	**46**	79	13	**24**	42	6.7	**J**
75-05-8	Acetonitrile	ND	7.9	2.9	ND	4.7	1.7	
107-02-8	Acrolein	ND	32	2.7	ND	14	1.2	
67-64-1	Acetone	**78**	79	12	**33**	33	5.1	**J**
75-69-4	Trichlorofluoromethane	**3.8**	7.9	2.7	**0.67**	1.4	0.48	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	79	6.7	ND	32	2.7	
107-13-1	Acrylonitrile	ND	7.9	2.7	ND	3.7	1.2	
75-35-4	1,1-Dichloroethene	**540**	7.9	2.7	**140**	2.0	0.68	
75-09-2	Methylene Chloride	ND	7.9	2.7	ND	2.3	0.78	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.9	2.5	ND	2.5	0.81	
76-13-1	Trichlorotrifluoroethane	**30**	7.9	2.7	**4.0**	1.0	0.35	
75-15-0	Carbon Disulfide	ND	79	2.4	ND	25	0.76	
156-60-5	trans-1,2-Dichloroethene	ND	7.9	3.0	ND	2.0	0.76	
75-34-3	1,1-Dichloroethane	**12**	7.9	2.5	**2.9**	2.0	0.63	
1634-04-4	Methyl tert-Butyl Ether	ND	7.9	2.7	ND	2.2	0.75	
108-05-4	Vinyl Acetate	ND	79	10	ND	23	2.9	
78-93-3	2-Butanone (MEK)	**7.5**	79	3.3	**2.6**	27	1.1	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE EXHAUST** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-010

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25 - 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.075 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SC01232

Initial Pressure (psig): 1.46 Final Pressure (psig): 4.50

Canister Dilution Factor: 1.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	7.9	2.5	ND	2.0	0.64	
141-78-6	Ethyl Acetate	ND	16	5.6	ND	4.4	1.5	
110-54-3	n-Hexane	ND	7.9	2.4	ND	2.3	0.68	
67-66-3	Chloroform	**46**	7.9	2.7	**9.4**	1.6	0.55	
109-99-9	Tetrahydrofuran (THF)	**3.3**	7.9	3.2	**1.1**	2.7	1.1	**J**
107-06-2	1,2-Dichloroethane	**3.3**	7.9	2.5	**0.82**	2.0	0.63	**J**
71-55-6	1,1,1-Trichloroethane	**120**	7.9	2.7	**22**	1.5	0.49	
71-43-2	Benzene	**2.7**	7.9	2.5	**0.85**	2.5	0.79	**J**
56-23-5	Carbon Tetrachloride	ND	7.9	2.4	ND	1.3	0.38	
110-82-7	Cyclohexane	ND	16	4.6	ND	4.6	1.3	
78-87-5	1,2-Dichloropropane	ND	7.9	2.5	ND	1.7	0.55	
75-27-4	Bromodichloromethane	ND	7.9	2.4	ND	1.2	0.36	
79-01-6	Trichloroethene	**4.9**	7.9	2.2	**0.91**	1.5	0.41	**J**
123-91-1	1,4-Dioxane	**6,900**	40	13	**1,900**	11	3.5	**D**
80-62-6	Methyl Methacrylate	ND	16	4.9	ND	3.9	1.2	
142-82-5	n-Heptane	ND	7.9	2.7	ND	1.9	0.66	
10061-01-5	cis-1,3-Dichloropropene	ND	7.9	2.2	ND	1.7	0.49	
108-10-1	4-Methyl-2-pentanone	**4.0**	7.9	2.5	**0.96**	1.9	0.62	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	7.9	2.5	ND	1.7	0.56	
79-00-5	1,1,2-Trichloroethane	**12**	7.9	2.5	**2.2**	1.5	0.47	
108-88-3	Toluene	**18**	7.9	2.7	**4.6**	2.1	0.72	
591-78-6	2-Hexanone	ND	7.9	2.5	ND	1.9	0.62	
124-48-1	Dibromochloromethane	ND	7.9	2.5	ND	0.93	0.30	
106-93-4	1,2-Dibromoethane	ND	7.9	2.5	ND	1.0	0.33	
123-86-4	n-Butyl Acetate	ND	7.9	2.5	ND	1.7	0.53	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE EXHAUST** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-010

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/25 - 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.075 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SC01232

Initial Pressure (psig): 1.46 Final Pressure (psig): 4.50

Canister Dilution Factor: 1.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	7.9	2.9	ND	1.7	0.61	
127-18-4	Tetrachloroethene	**21**	7.9	2.2	**3.2**	1.2	0.33	
108-90-7	Chlorobenzene	ND	7.9	2.5	ND	1.7	0.55	
100-41-4	Ethylbenzene	**5.1**	7.9	2.5	**1.2**	1.8	0.58	**J**
179601-23-1	m,p-Xylenes	**20**	16	4.8	**4.7**	3.7	1.1	
75-25-2	Bromoform	ND	7.9	2.4	ND	0.77	0.23	
100-42-5	Styrene	ND	7.9	2.4	ND	1.9	0.56	
95-47-6	o-Xylene	**7.3**	7.9	2.4	**1.7**	1.8	0.55	**J**
111-84-2	n-Nonane	ND	7.9	2.4	ND	1.5	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.9	2.4	ND	1.2	0.35	
98-82-8	Cumene	ND	7.9	2.4	ND	1.6	0.48	
80-56-8	alpha-Pinene	ND	7.9	2.2	ND	1.4	0.40	
103-65-1	n-Propylbenzene	ND	7.9	2.5	ND	1.6	0.52	
622-96-8	4-Ethyltoluene	ND	7.9	2.5	ND	1.6	0.52	
108-67-8	1,3,5-Trimethylbenzene	ND	7.9	2.5	ND	1.6	0.52	
95-63-6	1,2,4-Trimethylbenzene	**3.0**	7.9	2.4	**0.62**	1.6	0.48	**J**
100-44-7	Benzyl Chloride	ND	7.9	1.7	ND	1.5	0.34	
541-73-1	1,3-Dichlorobenzene	ND	7.9	2.4	ND	1.3	0.40	
106-46-7	1,4-Dichlorobenzene	**22**	7.9	2.2	**3.7**	1.3	0.37	
95-50-1	1,2-Dichlorobenzene	ND	7.9	2.4	ND	1.3	0.40	
5989-27-5	d-Limonene	**2.3**	7.9	2.2	**0.42**	1.4	0.40	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.9	1.6	ND	0.82	0.16	
120-82-1	1,2,4-Trichlorobenzene	ND	7.9	2.5	ND	1.1	0.34	
91-20-3	Naphthalene	ND	7.9	2.9	ND	1.5	0.55	
87-68-3	Hexachlorobutadiene	ND	7.9	2.2	ND	0.74	0.21	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 1** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-011

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00315

Initial Pressure (psig): 0.73 Final Pressure (psig): 5.95

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**5.4**	1.7	0.47	**3.2**	0.97	0.27	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.7	0.57	**0.43**	0.34	0.12	
74-87-3	Chloromethane	**0.70**	1.7	0.50	**0.34**	0.81	0.24	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.64	ND	0.24	0.091	
75-01-4	Vinyl Chloride	ND	1.7	0.57	ND	0.66	0.22	
106-99-0	1,3-Butadiene	ND	1.7	0.74	ND	0.76	0.33	
74-83-9	Bromomethane	ND	1.7	0.64	ND	0.43	0.16	
75-00-3	Chloroethane	ND	1.7	0.57	ND	0.64	0.22	
64-17-5	Ethanol	**31**	17	2.7	**17**	8.9	1.4	
75-05-8	Acetonitrile	ND	1.7	0.60	ND	1.0	0.36	
107-02-8	Acrolein	**1.5**	6.7	0.57	**0.65**	2.9	0.25	**J**
67-64-1	Acetone	**52**	17	2.6	**22**	7.1	1.1	
75-69-4	Trichlorofluoromethane	**2.6**	1.7	0.57	**0.46**	0.30	0.10	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	17	1.4	ND	6.8	0.57	
107-13-1	Acrylonitrile	ND	1.7	0.57	ND	0.77	0.26	
75-35-4	1,1-Dichloroethene	**360**	1.7	0.57	**90**	0.42	0.14	
75-09-2	Methylene Chloride	**0.93**	1.7	0.57	**0.27**	0.48	0.16	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.54	ND	0.54	0.17	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.57	ND	0.22	0.074	
75-15-0	Carbon Disulfide	ND	17	0.50	ND	5.4	0.16	
156-60-5	trans-1,2-Dichloroethene	**0.85**	1.7	0.64	**0.21**	0.42	0.16	**J**
75-34-3	1,1-Dichloroethane	ND	1.7	0.54	ND	0.41	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.57	ND	0.46	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.8	0.62	
78-93-3	2-Butanone (MEK)	**8.2**	17	0.70	**2.8**	5.7	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 1** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-011

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00315

Initial Pressure (psig): 0.73 Final Pressure (psig): 5.95

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.54	ND	0.42	0.14	
141-78-6	Ethyl Acetate	**3.1**	3.4	1.2	**0.87**	0.93	0.33	**J**
110-54-3	n-Hexane	**0.73**	1.7	0.50	**0.21**	0.48	0.14	**J**
67-66-3	Chloroform	**1.5**	1.7	0.57	**0.30**	0.34	0.12	**J**
109-99-9	Tetrahydrofuran (THF)	**1.9**	1.7	0.67	**0.65**	0.57	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.54	ND	0.41	0.13	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.57	ND	0.31	0.10	
71-43-2	Benzene	ND	1.7	0.54	ND	0.52	0.17	
56-23-5	Carbon Tetrachloride	ND	1.7	0.50	ND	0.27	0.080	
110-82-7	Cyclohexane	ND	3.4	0.97	ND	0.97	0.28	
78-87-5	1,2-Dichloropropane	ND	1.7	0.54	ND	0.36	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.50	ND	0.25	0.075	
79-01-6	Trichloroethene	ND	1.7	0.47	ND	0.31	0.087	
123-91-1	1,4-Dioxane	**59**	1.7	0.54	**16**	0.46	0.15	
80-62-6	Methyl Methacrylate	**1.4**	3.4	1.0	**0.35**	0.82	0.25	**J**
142-82-5	n-Heptane	**3.2**	1.7	0.57	**0.79**	0.41	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.47	ND	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.54	ND	0.41	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.54	ND	0.37	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.54	ND	0.31	0.098	
108-88-3	Toluene	**0.91**	1.7	0.57	**0.24**	0.44	0.15	**J**
591-78-6	2-Hexanone	**1.0**	1.7	0.54	**0.25**	0.41	0.13	**J**
124-48-1	Dibromochloromethane	ND	1.7	0.54	ND	0.20	0.063	
106-93-4	1,2-Dibromoethane	ND	1.7	0.54	ND	0.22	0.070	
123-86-4	n-Butyl Acetate	ND	1.7	0.54	ND	0.35	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 1** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-011

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00315

Initial Pressure (psig): 0.73 Final Pressure (psig): 5.95

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**5.4**	1.7	0.60	**1.2**	0.36	0.13	
127-18-4	Tetrachloroethene	ND	1.7	0.47	ND	0.25	0.069	
108-90-7	Chlorobenzene	ND	1.7	0.54	ND	0.36	0.12	
100-41-4	Ethylbenzene	**0.81**	1.7	0.54	**0.19**	0.39	0.12	**J**
179601-23-1	m,p-Xylenes	**3.3**	3.4	1.0	**0.76**	0.77	0.23	**J**
75-25-2	Bromoform	ND	1.7	0.50	ND	0.16	0.049	
100-42-5	Styrene	ND	1.7	0.50	ND	0.39	0.12	
95-47-6	o-Xylene	**1.1**	1.7	0.50	**0.26**	0.39	0.12	**J**
111-84-2	n-Nonane	ND	1.7	0.50	ND	0.32	0.096	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.50	ND	0.24	0.073	
98-82-8	Cumene	ND	1.7	0.50	ND	0.34	0.10	
80-56-8	alpha-Pinene	ND	1.7	0.47	ND	0.30	0.084	
103-65-1	n-Propylbenzene	ND	1.7	0.54	ND	0.34	0.11	
622-96-8	4-Ethyltoluene	ND	1.7	0.54	ND	0.34	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.54	ND	0.34	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	1.7	0.50	ND	0.34	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.37	ND	0.32	0.071	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.50	ND	0.28	0.084	
106-46-7	1,4-Dichlorobenzene	**0.97**	1.7	0.47	**0.16**	0.28	0.078	**J**
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.50	ND	0.28	0.084	
5989-27-5	d-Limonene	**0.76**	1.7	0.47	**0.14**	0.30	0.084	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.33	ND	0.17	0.034	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.54	ND	0.23	0.072	
91-20-3	Naphthalene	ND	1.7	0.60	ND	0.32	0.12	
87-68-3	Hexachlorobutadiene	ND	1.7	0.47	ND	0.16	0.044	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 2** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-012

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00649

Initial Pressure (psig): 0.68 Final Pressure (psig): 9.42

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.2**	2.0	0.55	**0.72**	1.1	0.32	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	2.0	0.67	**0.39**	0.40	0.13	**J**
74-87-3	Chloromethane	ND	2.0	0.59	ND	0.95	0.29	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.75	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	2.0	0.67	ND	0.77	0.26	
106-99-0	1,3-Butadiene	ND	2.0	0.86	ND	0.89	0.39	
74-83-9	Bromomethane	ND	2.0	0.75	ND	0.51	0.19	
75-00-3	Chloroethane	ND	2.0	0.67	ND	0.74	0.25	
64-17-5	Ethanol	**18**	20	3.1	**9.4**	10	1.7	**J**
75-05-8	Acetonitrile	**1.4**	2.0	0.71	**0.85**	1.2	0.42	**J**
107-02-8	Acrolein	ND	7.9	0.67	ND	3.4	0.29	
67-64-1	Acetone	**19**	20	3.0	**7.8**	8.3	1.3	**J**
75-69-4	Trichlorofluoromethane	ND	2.0	0.67	ND	0.35	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.9**	20	1.6	**1.2**	8.0	0.67	**J**
107-13-1	Acrylonitrile	ND	2.0	0.67	ND	0.90	0.31	
75-35-4	1,1-Dichloroethene	ND	2.0	0.67	ND	0.50	0.17	
75-09-2	Methylene Chloride	ND	2.0	0.67	ND	0.57	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.63	ND	0.63	0.20	
76-13-1	Trichlorotrifluoroethane	ND	2.0	0.67	ND	0.26	0.087	
75-15-0	Carbon Disulfide	**15**	20	0.59	**4.7**	6.3	0.19	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.75	ND	0.50	0.19	
75-34-3	1,1-Dichloroethane	ND	2.0	0.63	ND	0.49	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.67	ND	0.54	0.19	
108-05-4	Vinyl Acetate	**3.9**	20	2.6	**1.1**	5.6	0.72	**J**
78-93-3	2-Butanone (MEK)	**5.3**	20	0.82	**1.8**	6.7	0.28	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 2** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-012

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00649

Initial Pressure (psig): 0.68 Final Pressure (psig): 9.42

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.63	ND	0.50	0.16	
141-78-6	Ethyl Acetate	**11**	3.9	1.4	**3.2**	1.1	0.38	
110-54-3	n-Hexane	ND	2.0	0.59	ND	0.56	0.17	
67-66-3	Chloroform	**4.3**	2.0	0.67	**0.88**	0.40	0.14	
109-99-9	Tetrahydrofuran (THF)	**1.2**	2.0	0.79	**0.41**	0.67	0.27	**J**
107-06-2	1,2-Dichloroethane	ND	2.0	0.63	ND	0.49	0.16	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.67	ND	0.36	0.12	
71-43-2	Benzene	ND	2.0	0.63	ND	0.61	0.20	
56-23-5	Carbon Tetrachloride	ND	2.0	0.59	ND	0.31	0.094	
110-82-7	Cyclohexane	ND	3.9	1.1	ND	1.1	0.33	
78-87-5	1,2-Dichloropropane	ND	2.0	0.63	ND	0.42	0.14	
75-27-4	Bromodichloromethane	ND	2.0	0.59	ND	0.29	0.088	
79-01-6	Trichloroethene	ND	2.0	0.55	ND	0.37	0.10	
123-91-1	1,4-Dioxane	**35**	2.0	0.63	**9.8**	0.54	0.17	
80-62-6	Methyl Methacrylate	ND	3.9	1.2	ND	0.96	0.30	
142-82-5	n-Heptane	ND	2.0	0.67	ND	0.48	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.55	ND	0.43	0.12	
108-10-1	4-Methyl-2-pentanone	**0.70**	2.0	0.63	**0.17**	0.48	0.15	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.63	ND	0.43	0.14	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.63	ND	0.36	0.12	
108-88-3	Toluene	**2.1**	2.0	0.67	**0.55**	0.52	0.18	
591-78-6	2-Hexanone	**1.7**	2.0	0.63	**0.43**	0.48	0.15	**J**
124-48-1	Dibromochloromethane	ND	2.0	0.63	ND	0.23	0.074	
106-93-4	1,2-Dibromoethane	ND	2.0	0.63	ND	0.26	0.082	
123-86-4	n-Butyl Acetate	ND	2.0	0.63	ND	0.41	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **POST CARBON 2** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1500677-012

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 2/19/15
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00649

Initial Pressure (psig): 0.68 Final Pressure (psig): 9.42

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.4**	2.0	0.71	**0.50**	0.42	0.15	
127-18-4	Tetrachloroethene	ND	2.0	0.55	ND	0.29	0.081	
108-90-7	Chlorobenzene	ND	2.0	0.63	ND	0.43	0.14	
100-41-4	Ethylbenzene	**0.70**	2.0	0.63	**0.16**	0.45	0.14	**J**
179601-23-1	m,p-Xylenes	**2.9**	3.9	1.2	**0.67**	0.90	0.27	**J**
75-25-2	Bromoform	ND	2.0	0.59	ND	0.19	0.057	
100-42-5	Styrene	ND	2.0	0.59	ND	0.46	0.14	
95-47-6	o-Xylene	**0.99**	2.0	0.59	**0.23**	0.45	0.14	**J**
111-84-2	n-Nonane	ND	2.0	0.59	ND	0.37	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.59	ND	0.29	0.086	
98-82-8	Cumene	ND	2.0	0.59	ND	0.40	0.12	
80-56-8	alpha-Pinene	ND	2.0	0.55	ND	0.35	0.099	
103-65-1	n-Propylbenzene	ND	2.0	0.63	ND	0.40	0.13	
622-96-8	4-Ethyltoluene	ND	2.0	0.63	ND	0.40	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.63	ND	0.40	0.13	
95-63-6	1,2,4-Trimethylbenzene	**0.60**	2.0	0.59	**0.12**	0.40	0.12	**J**
100-44-7	Benzyl Chloride	ND	2.0	0.43	ND	0.38	0.083	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.098	
106-46-7	1,4-Dichlorobenzene	**0.87**	2.0	0.55	**0.14**	0.33	0.091	**J**
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.098	
5989-27-5	d-Limonene	**0.62**	2.0	0.55	**0.11**	0.35	0.099	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.39	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.63	ND	0.26	0.085	
91-20-3	Naphthalene	ND	2.0	0.71	ND	0.37	0.13	
87-68-3	Hexachlorobutadiene	ND	2.0	0.55	ND	0.18	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Project ID: P1500677

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 2/17/15
Analyst: Wida Ang Date(s) Received: 2/19/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 2/25 - 2/26/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150225-MB	**88**	**104**	**112**	70-130	
Method Blank	P150226-MB	**87**	**105**	**115**	70-130	
Lab Control Sample	P150225-LCS	**86**	**105**	**114**	70-130	
Lab Control Sample	P150226-LCS	**85**	**105**	**115**	70-130	
SVE-OBS-01	P1500677-001	**88**	**103**	**118**	70-130	
SVE-OBS-02	P1500677-002	**87**	**102**	**118**	70-130	
SVE-OBS-03	P1500677-003	**86**	**101**	**119**	70-130	
SVE-OBS-04	P1500677-004	**87**	**102**	**119**	70-130	
SVE-OBS-05	P1500677-005	**87**	**102**	**119**	70-130	
SVE-OBS-06	P1500677-006	**87**	**100**	**117**	70-130	
SVE-OBS-07	P1500677-007	**86**	**102**	**118**	70-130	
SVE-OBS-08	P1500677-008	**87**	**102**	**119**	70-130	
SVE-OBS-09	P1500677-009	**86**	**101**	**118**	70-130	
SVE EXHAUST	P1500677-010	**87**	**104**	**116**	70-130	
POST CARBON 1	P1500677-011	**87**	**104**	**117**	70-130	
POST CARBON 2	P1500677-012	**87**	**102**	**117**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**150**	**75**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**169**	**83**	66-117	
74-87-3	Chloromethane	198	**166**	**84**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**197**	**96**	65-117	
75-01-4	Vinyl Chloride	202	**198**	**98**	61-127	
106-99-0	1,3-Butadiene	214	**207**	**97**	65-132	
74-83-9	Bromomethane	202	**185**	**92**	62-114	
75-00-3	Chloroethane	202	**197**	**98**	64-122	
64-17-5	Ethanol	1,020	**835**	**82**	57-131	
75-05-8	Acetonitrile	204	**168**	**82**	52-135	
107-02-8	Acrolein	214	**228**	**107**	64-124	
67-64-1	Acetone	1,080	**994**	**92**	60-113	
75-69-4	Trichlorofluoromethane	198	**192**	**97**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**334**	**80**	62-129	
107-13-1	Acrylonitrile	208	**187**	**90**	69-133	
75-35-4	1,1-Dichloroethene	214	**215**	**100**	70-114	
75-09-2	Methylene Chloride	216	**190**	**88**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**157**	**72**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**205**	**95**	69-116	
75-15-0	Carbon Disulfide	196	**184**	**94**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**187**	**88**	69-123	
75-34-3	1,1-Dichloroethane	208	**172**	**83**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**165**	**78**	57-125	
108-05-4	Vinyl Acetate	1,020	**1190**	**117**	69-131	
78-93-3	2-Butanone (MEK)	216	**212**	**98**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**183**	**86**	69-119	
141-78-6	Ethyl Acetate	428	**370**	**86**	65-129	
110-54-3	n-Hexane	210	**165**	**79**	55-116	
67-66-3	Chloroform	216	**188**	**87**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**198**	**96**	69-120	
107-06-2	1,2-Dichloroethane	210	**174**	**83**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**189**	**91**	74-116	
71-43-2	Benzene	220	**169**	**77**	61-109	
56-23-5	Carbon Tetrachloride	214	**215**	**100**	76-120	
110-82-7	Cyclohexane	422	**373**	**88**	72-115	
78-87-5	1,2-Dichloropropane	212	**178**	**84**	67-119	
75-27-4	Bromodichloromethane	216	**201**	**93**	78-124	
79-01-6	Trichloroethene	208	**206**	**99**	69-115	
123-91-1	1,4-Dioxane	218	**201**	**92**	69-127	
80-62-6	Methyl Methacrylate	420	**439**	**105**	76-128	
142-82-5	n-Heptane	214	**189**	**88**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**215**	**95**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**193**	**89**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**219**	**101**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**205**	**97**	75-119	
108-88-3	Toluene	212	**203**	**96**	68-114	
591-78-6	2-Hexanone	222	**194**	**87**	60-136	
124-48-1	Dibromochloromethane	220	**248**	**113**	75-132	
106-93-4	1,2-Dibromoethane	216	**237**	**110**	72-122	
123-86-4	n-Butyl Acetate	224	**203**	**91**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**187**	**90**	66-120	
127-18-4	Tetrachloroethene	198	**219**	**111**	67-120	
108-90-7	Chlorobenzene	216	**220**	**102**	69-114	
100-41-4	Ethylbenzene	212	**209**	**99**	71-117	
179601-23-1	m,p-Xylenes	420	**413**	**98**	71-118	
75-25-2	Bromoform	216	**287**	**133**	76-149	
100-42-5	Styrene	218	**235**	**108**	71-128	
95-47-6	o-Xylene	206	**203**	**99**	72-118	
111-84-2	n-Nonane	204	**170**	**83**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**216**	**107**	73-124	
98-82-8	Cumene	204	**204**	**100**	71-118	
80-56-8	alpha-Pinene	208	**210**	**101**	71-123	
103-65-1	n-Propylbenzene	202	**199**	**99**	71-120	
622-96-8	4-Ethyltoluene	212	**208**	**98**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**210**	**99**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**216**	**103**	71-122	
100-44-7	Benzyl Chloride	218	**271**	**124**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**245**	**112**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**226**	**107**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**240**	**112**	68-121	
5989-27-5	d-Limonene	210	**206**	**98**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**294**	**143**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**266**	**127**	60-135	
91-20-3	Naphthalene	196	**251**	**128**	63-142	
87-68-3	Hexachlorobutadiene	214	**252**	**118**	65-127	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**140**	**70**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**162**	**79**	66-117	
74-87-3	Chloromethane	198	**167**	**84**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**193**	**94**	65-117	
75-01-4	Vinyl Chloride	202	**192**	**95**	61-127	
106-99-0	1,3-Butadiene	214	**202**	**94**	65-132	
74-83-9	Bromomethane	202	**183**	**91**	62-114	
75-00-3	Chloroethane	202	**194**	**96**	64-122	
64-17-5	Ethanol	1,020	**837**	**82**	57-131	
75-05-8	Acetonitrile	204	**166**	**81**	52-135	
107-02-8	Acrolein	214	**219**	**102**	64-124	
67-64-1	Acetone	1,080	**959**	**89**	60-113	
75-69-4	Trichlorofluoromethane	198	**185**	**93**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**328**	**78**	62-129	
107-13-1	Acrylonitrile	208	**179**	**86**	69-133	
75-35-4	1,1-Dichloroethene	214	**210**	**98**	70-114	
75-09-2	Methylene Chloride	216	**185**	**86**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**152**	**70**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**201**	**93**	69-116	
75-15-0	Carbon Disulfide	196	**180**	**92**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**181**	**85**	69-123	
75-34-3	1,1-Dichloroethane	208	**165**	**79**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**171**	**81**	57-125	
108-05-4	Vinyl Acetate	1,020	**1140**	**112**	69-131	
78-93-3	2-Butanone (MEK)	216	**203**	**94**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**176**	**82**	69-119	
141-78-6	Ethyl Acetate	428	**354**	**83**	65-129	
110-54-3	n-Hexane	210	**159**	**76**	55-116	
67-66-3	Chloroform	216	**181**	**84**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**191**	**93**	69-120	
107-06-2	1,2-Dichloroethane	210	**166**	**79**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**184**	**88**	74-116	
71-43-2	Benzene	220	**163**	**74**	61-109	
56-23-5	Carbon Tetrachloride	214	**207**	**97**	76-120	
110-82-7	Cyclohexane	422	**364**	**86**	72-115	
78-87-5	1,2-Dichloropropane	212	**173**	**82**	67-119	
75-27-4	Bromodichloromethane	216	**196**	**91**	78-124	
79-01-6	Trichloroethene	208	**201**	**97**	69-115	
123-91-1	1,4-Dioxane	218	**196**	**90**	69-127	
80-62-6	Methyl Methacrylate	420	**427**	**102**	76-128	
142-82-5	n-Heptane	214	**183**	**86**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**210**	**93**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**187**	**86**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**214**	**99**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**200**	**94**	75-119	
108-88-3	Toluene	212	**197**	**93**	68-114	
591-78-6	2-Hexanone	222	**185**	**83**	60-136	
124-48-1	Dibromochloromethane	220	**240**	**109**	75-132	
106-93-4	1,2-Dibromoethane	216	**229**	**106**	72-122	
123-86-4	n-Butyl Acetate	224	**193**	**86**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500677
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150226-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 2/26/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**181**	**87**	66-120	
127-18-4	Tetrachloroethene	198	**211**	**107**	67-120	
108-90-7	Chlorobenzene	216	**214**	**99**	69-114	
100-41-4	Ethylbenzene	212	**201**	**95**	71-117	
179601-23-1	m,p-Xylenes	420	**398**	**95**	71-118	
75-25-2	Bromoform	216	**278**	**129**	76-149	
100-42-5	Styrene	218	**225**	**103**	71-128	
95-47-6	o-Xylene	206	**195**	**95**	72-118	
111-84-2	n-Nonane	204	**162**	**79**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**208**	**103**	73-124	
98-82-8	Cumene	204	**197**	**97**	71-118	
80-56-8	alpha-Pinene	208	**203**	**98**	71-123	
103-65-1	n-Propylbenzene	202	**191**	**95**	71-120	
622-96-8	4-Ethyltoluene	212	**202**	**95**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**202**	**95**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**208**	**99**	71-122	
100-44-7	Benzyl Chloride	218	**261**	**120**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**237**	**109**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**220**	**104**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**232**	**108**	68-121	
5989-27-5	d-Limonene	210	**199**	**95**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**286**	**139**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**258**	**123**	60-135	
91-20-3	Naphthalene	196	**244**	**124**	63-142	
87-68-3	Hexachlorobutadiene	214	**245**	**114**	65-127	

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.

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LABORATORY REPORT

July 15, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Performance Monitoring / KUH0-15-010

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on June 30, 2015. For your reference, these analyses have been assigned our service request number P1502627.

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 8:38 am, Jul 15, 2015

Sue Anderson
Project Manager

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www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1502627
Project: SVE Performance Monitoring / KUH0-15-010

CASE NARRATIVE

The samples were received intact under chain of custody on June 30, 2015 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, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criteria were exceeded for Naphthalene and Hexachlorobutadiene in the Continuing Calibration Verification (CCV) analyzed on July 9, 2015. The apparent problem equates to a potential high bias. With the exception of sample SVE-OBS-03 (P1502627-003) which had a hit for naphthalene, the field samples analyzed in this sequence did not contain the analytes in question. Therefore, the data quality has not been significantly affected. The result for Naphthalene in sample SVE-OBS-03 (P1502627-003) however has been qualified accordingly. No further corrective action was taken.

The spike recoveries of 1,3-Dichlorobenzene, 1,2-Dichlorobenzene and Hexachlorobutadiene in the Laboratory Control Sample (LCS) analyzed on July 9, 2015 were outside the laboratory generated control criteria. The recovery errors equate to a potential high bias. However, the recoveries in question were within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

The spike recovery of Hexachlorobutadiene in the Laboratory Control Sample (LCS) analyzed on July 10, 2015 was outside the laboratory generated control criteria. The recovery error equates to a potential high bias. However, the recovery in question was within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

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Client: Environmental Management Services, Inc. Service Request No: P1502627
Project: SVE Performance Monitoring / KUH0-15-010

CASE NARRATIVE

The canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1502627

Project ID: SVE Performance Monitoring / KUH0-15-010

Date Received: 6/30/2015

Time Received: 08:55

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SVE-OBS-01	P1502627-001	Air	6/24/2015	07:45	1SS00060	-0.10	6.17	X
SVE-OBS-02	P1502627-002	Air	6/24/2015	07:55	1SC00461	-0.06	5.62	X
SVE-OBS-03	P1502627-003	Air	6/24/2015	08:05	1SC01009	-0.09	5.30	X
SVE-OBS-04	P1502627-004	Air	6/24/2015	08:14	1SC00414	-0.12	5.06	X
SVE-OBS-05	P1502627-005	Air	6/24/2015	08:28	1SS00011	0.11	7.17	X
SVE-OBS-06	P1502627-006	Air	6/24/2015	08:41	1SC00877	-0.27	7.89	X
SVE-OBS-07	P1502627-007	Air	6/24/2015	08:51	1SC00054	-0.17	5.58	X
SVE-OBS-08	P1502627-008	Air	6/24/2015	09:00	1SC00043	-0.14	5.76	X
SVE-OBS-09	P1502627-009	Air	6/24/2015	09:13	1SS00166	-0.19	5.71	X
SVE Exhaust	P1502627-010	Air	6/24/2015	10:58	1SS00014	0.03	5.47	X
Post Carbon 1	P1502627-011	Air	6/24/2015	11:24	1SS00070	-0.43	5.66	X
Post Carbon 2	P1502627-012	Air	6/24/2015	11:08	1SS00025	-0.36	6.44	X

Air - Chain of Custody Record & Analytical Service Request

ALS
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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 P1502627

ALS Contact:

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg, MS 39404

Project Name: SVE Performance Monitoring

Project Number: KUHO-15-01D

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHO-15-01D / same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
SVE-OBS-01	1	6-24-15	7:45	SS00016D	AVG 03873				X		
SVE-OBS-02	2	6-24-15	7:55	SC00461	AVG 03377				X		
SVE-OBS-03	3	6-24-15	8:05	SC01009	AVG 03218				X		
SVE-OBS-04	4	6-24-15	8:14	SC00414	AVG 03484				X		
SVE-OBS-05	5	6-24-15	8:28	SS0011	AVG 04020				X		
SVE-OBS-06	6	6-24-15	8:41	SC00877	AVG 03251				X		
SVE-OBS-07	7	6-24-15	8:51	SC00054	AVG 03904				X		
SVE-OBS-08	8	6-24-15	9:00	SC00043	AVG 03911				X		
SVE-OBS-09	9	6-24-15	9:13	SS00166	AVG 04436				X		
SVE Exhaust	10										
Post Carbon 1	11										
Post Carbon 2	12										

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	6-24-15	17:30	FED X	–	
Relinquished by: (Signature) FED X	Date:	Time:	Received by: (Signature) K. Vega	6/30/15	0855

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1502627

Project: SVE Performance Monitoring / KUH0-15-010

Sample(s) received on: 6/30/15 Date opened: 6/30/15 by: KKELPE

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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1502627-001.01	1.0 L Source Silonite Canister					
P1502627-002.01	1.0 L Source Can					
P1502627-003.01	1.0 L Source Can					
P1502627-004.01	1.0 L Source Can					
P1502627-005.01	1.0 L Source Silonite Canister					
P1502627-006.01	1.0 L Source Can					
P1502627-007.01	1.0 L Source Can					
P1502627-008.01	1.0 L Source Can					

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

The dates and time for the last 3 samples were not indicated on the COC, the info was noted from the sample tags.

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

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1502627

Project: SVE Performance Monitoring / KUH0-15-010

Sample(s) received on: 6/30/15 Date opened: 6/30/15 by: KKELPE

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1502627-009.01	1.0 L Source Silonite Canister					
P1502627-010.01	1.0 L Source Silonite Canister					
P1502627-011.01	1.0 L Source Silonite Canister					
P1502627-012.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00060

Initial Pressure (psig): -0.10 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.8	0.50	ND	1.0	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.8	0.61	**0.39**	0.36	0.12	
74-87-3	Chloromethane	**0.64**	1.8	0.54	**0.31**	0.87	0.26	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.68	ND	0.26	0.097	
75-01-4	Vinyl Chloride	ND	1.8	0.61	ND	0.70	0.24	
106-99-0	1,3-Butadiene	ND	1.8	0.79	ND	0.81	0.36	
74-83-9	Bromomethane	ND	1.8	0.68	ND	0.46	0.17	
75-00-3	Chloroethane	ND	1.8	0.61	ND	0.68	0.23	
64-17-5	Ethanol	**77**	18	2.9	**41**	9.5	1.5	
75-05-8	Acetonitrile	ND	1.8	0.64	ND	1.1	0.38	
107-02-8	Acrolein	**0.63**	7.2	0.61	**0.27**	3.1	0.27	**J**
67-64-1	Acetone	**24**	18	2.8	**10**	7.5	1.2	
75-69-4	Trichlorofluoromethane	**1.3**	1.8	0.61	**0.23**	0.32	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**18**	18	1.5	**7.5**	7.3	0.61	
107-13-1	Acrylonitrile	ND	1.8	0.61	ND	0.82	0.28	
75-35-4	1,1-Dichloroethene	**7.7**	1.8	0.61	**1.9**	0.45	0.15	
75-09-2	Methylene Chloride	**0.82**	1.8	0.61	**0.23**	0.51	0.18	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.57	ND	0.57	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.8	0.61	ND	0.23	0.079	
75-15-0	Carbon Disulfide	**1.9**	18	0.54	**0.62**	5.7	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.68	ND	0.45	0.17	
75-34-3	1,1-Dichloroethane	ND	1.8	0.57	ND	0.44	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.61	ND	0.50	0.17	
108-05-4	Vinyl Acetate	ND	18	2.3	ND	5.1	0.66	
78-93-3	2-Butanone (MEK)	**15**	18	0.75	**5.0**	6.1	0.25	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00060

Initial Pressure (psig): -0.10 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.8	0.57	ND	0.45	0.14	
141-78-6	Ethyl Acetate	**2.5**	3.6	1.3	**0.70**	0.99	0.35	**J**
110-54-3	n-Hexane	**20**	1.8	0.54	**5.7**	0.51	0.15	
67-66-3	Chloroform	ND	1.8	0.61	ND	0.37	0.12	
109-99-9	Tetrahydrofuran (THF)	**4.2**	1.8	0.72	**1.4**	0.61	0.24	
107-06-2	1,2-Dichloroethane	ND	1.8	0.57	ND	0.44	0.14	
71-55-6	1,1,1-Trichloroethane	**9.2**	1.8	0.61	**1.7**	0.33	0.11	
71-43-2	Benzene	**0.86**	1.8	0.57	**0.27**	0.56	0.18	**J**
56-23-5	Carbon Tetrachloride	ND	1.8	0.54	ND	0.28	0.085	
110-82-7	Cyclohexane	**2.7**	3.6	1.0	**0.79**	1.0	0.30	**J**
78-87-5	1,2-Dichloropropane	ND	1.8	0.57	ND	0.39	0.12	
75-27-4	Bromodichloromethane	ND	1.8	0.54	ND	0.27	0.080	
79-01-6	Trichloroethene	ND	1.8	0.50	ND	0.33	0.093	
123-91-1	1,4-Dioxane	**15**	1.8	0.57	**4.1**	0.50	0.16	
80-62-6	Methyl Methacrylate	ND	3.6	1.1	ND	0.87	0.27	
142-82-5	n-Heptane	**1.3**	1.8	0.61	**0.33**	0.44	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.50	ND	0.39	0.11	
108-10-1	4-Methyl-2-pentanone	**7.3**	1.8	0.57	**1.8**	0.44	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.57	ND	0.39	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.57	ND	0.33	0.10	
108-88-3	Toluene	**270**	1.8	0.61	**71**	0.47	0.16	
591-78-6	2-Hexanone	ND	1.8	0.57	ND	0.44	0.14	
124-48-1	Dibromochloromethane	ND	1.8	0.57	ND	0.21	0.067	
106-93-4	1,2-Dibromoethane	ND	1.8	0.57	ND	0.23	0.074	
123-86-4	n-Butyl Acetate	ND	1.8	0.57	ND	0.38	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-01** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00060

Initial Pressure (psig): -0.10 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.9**	1.8	0.64	**0.41**	0.38	0.14	
127-18-4	Tetrachloroethene	**6.9**	1.8	0.50	**1.0**	0.26	0.074	
108-90-7	Chlorobenzene	ND	1.8	0.57	ND	0.39	0.12	
100-41-4	Ethylbenzene	**13**	1.8	0.57	**2.9**	0.41	0.13	
179601-23-1	m,p-Xylenes	**53**	3.6	1.1	**12**	0.82	0.25	
75-25-2	Bromoform	ND	1.8	0.54	ND	0.17	0.052	
100-42-5	Styrene	**2.3**	1.8	0.54	**0.53**	0.42	0.13	
95-47-6	o-Xylene	**24**	1.8	0.54	**5.5**	0.41	0.12	
111-84-2	n-Nonane	**3.5**	1.8	0.54	**0.67**	0.34	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.54	ND	0.26	0.078	
98-82-8	Cumene	**1.6**	1.8	0.54	**0.32**	0.36	0.11	**J**
80-56-8	alpha-Pinene	**6.7**	1.8	0.50	**1.2**	0.32	0.090	
103-65-1	n-Propylbenzene	**3.5**	1.8	0.57	**0.71**	0.36	0.12	
622-96-8	4-Ethyltoluene	**6.2**	1.8	0.57	**1.3**	0.36	0.12	
108-67-8	1,3,5-Trimethylbenzene	**5.3**	1.8	0.57	**1.1**	0.36	0.12	
95-63-6	1,2,4-Trimethylbenzene	**16**	1.8	0.54	**3.2**	0.36	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.39	ND	0.35	0.076	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.54	ND	0.30	0.089	
106-46-7	1,4-Dichlorobenzene	**42**	1.8	0.50	**7.0**	0.30	0.083	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.54	ND	0.30	0.089	
5989-27-5	d-Limonene	**2.1**	1.8	0.50	**0.38**	0.32	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.35	ND	0.19	0.037	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.57	ND	0.24	0.077	
91-20-3	Naphthalene	ND	1.8	0.64	ND	0.34	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.50	ND	0.17	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00461

Initial Pressure (psig): -0.06 Final Pressure (psig): 5.62

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.49	ND	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.7	0.59	**0.42**	0.35	0.12	
74-87-3	Chloromethane	**0.81**	1.7	0.52	**0.39**	0.84	0.25	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.66	ND	0.25	0.094	
75-01-4	Vinyl Chloride	ND	1.7	0.59	ND	0.68	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.76	ND	0.79	0.35	
74-83-9	Bromomethane	ND	1.7	0.66	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.7	0.59	ND	0.66	0.22	
64-17-5	Ethanol	**130**	17	2.8	**68**	9.2	1.5	
75-05-8	Acetonitrile	ND	1.7	0.63	ND	1.0	0.37	
107-02-8	Acrolein	**5.1**	7.0	0.59	**2.2**	3.0	0.26	**J**
67-64-1	Acetone	**97**	17	2.7	**41**	7.3	1.1	
75-69-4	Trichlorofluoromethane	**9.2**	1.7	0.59	**1.6**	0.31	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	**62**	17	1.5	**25**	7.1	0.59	
107-13-1	Acrylonitrile	ND	1.7	0.59	ND	0.80	0.27	
75-35-4	1,1-Dichloroethene	**3.2**	1.7	0.59	**0.80**	0.44	0.15	
75-09-2	Methylene Chloride	**5.5**	1.7	0.59	**1.6**	0.50	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.59	ND	0.23	0.077	
75-15-0	Carbon Disulfide	**22**	17	0.52	**6.9**	5.6	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.66	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	ND	1.7	0.56	ND	0.43	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.59	ND	0.48	0.16	
108-05-4	Vinyl Acetate	ND	17	2.3	ND	4.9	0.64	
78-93-3	2-Butanone (MEK)	**33**	17	0.73	**11**	5.9	0.25	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00461

Initial Pressure (psig): -0.06 Final Pressure (psig): 5.62

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.56	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**300**	3.5	1.2	**85**	0.96	0.34	
110-54-3	n-Hexane	**11**	1.7	0.52	**3.3**	0.49	0.15	
67-66-3	Chloroform	**1.1**	1.7	0.59	**0.22**	0.36	0.12	**J**
109-99-9	Tetrahydrofuran (THF)	**2.5**	1.7	0.70	**0.86**	0.59	0.24	
107-06-2	1,2-Dichloroethane	**2.4**	1.7	0.56	**0.59**	0.43	0.14	
71-55-6	1,1,1-Trichloroethane	**13**	1.7	0.59	**2.4**	0.32	0.11	
71-43-2	Benzene	**2.1**	1.7	0.56	**0.66**	0.54	0.17	
56-23-5	Carbon Tetrachloride	ND	1.7	0.52	ND	0.28	0.083	
110-82-7	Cyclohexane	**13**	3.5	1.0	**3.7**	1.0	0.29	
78-87-5	1,2-Dichloropropane	**6.8**	1.7	0.56	**1.5**	0.38	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.52	ND	0.26	0.078	
79-01-6	Trichloroethene	**0.88**	1.7	0.49	**0.16**	0.32	0.091	**J**
123-91-1	1,4-Dioxane	**1.2**	1.7	0.56	**0.32**	0.48	0.15	**J**
80-62-6	Methyl Methacrylate	**3.5**	3.5	1.1	**0.85**	0.85	0.26	
142-82-5	n-Heptane	**2.5**	1.7	0.59	**0.60**	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.49	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**6.3**	1.7	0.56	**1.5**	0.42	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.56	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.56	ND	0.32	0.10	
108-88-3	Toluene	**270**	1.7	0.59	**72**	0.46	0.16	
591-78-6	2-Hexanone	**1.8**	1.7	0.56	**0.43**	0.42	0.14	
124-48-1	Dibromochloromethane	ND	1.7	0.56	ND	0.20	0.065	
106-93-4	1,2-Dibromoethane	ND	1.7	0.56	ND	0.23	0.072	
123-86-4	n-Butyl Acetate	**4.5**	1.7	0.56	**0.94**	0.37	0.12	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-02** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00461

Initial Pressure (psig): -0.06 Final Pressure (psig): 5.62

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.4**	1.7	0.63	**0.52**	0.37	0.13	
127-18-4	Tetrachloroethene	**11**	1.7	0.49	**1.6**	0.26	0.072	
108-90-7	Chlorobenzene	ND	1.7	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**8.9**	1.7	0.56	**2.0**	0.40	0.13	
179601-23-1	m,p-Xylenes	**28**	3.5	1.0	**6.5**	0.80	0.24	
75-25-2	Bromoform	ND	1.7	0.52	ND	0.17	0.050	
100-42-5	Styrene	**5.0**	1.7	0.52	**1.2**	0.41	0.12	
95-47-6	o-Xylene	**11**	1.7	0.52	**2.6**	0.40	0.12	
111-84-2	n-Nonane	**2.9**	1.7	0.52	**0.55**	0.33	0.099	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.52	ND	0.25	0.076	
98-82-8	Cumene	**1.2**	1.7	0.52	**0.25**	0.35	0.11	**J**
80-56-8	alpha-Pinene	**17**	1.7	0.49	**3.1**	0.31	0.087	
103-65-1	n-Propylbenzene	**1.9**	1.7	0.56	**0.39**	0.35	0.11	
622-96-8	4-Ethyltoluene	**3.0**	1.7	0.56	**0.61**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**2.9**	1.7	0.56	**0.59**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**7.7**	1.7	0.52	**1.6**	0.35	0.11	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.34	0.074	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.087	
106-46-7	1,4-Dichlorobenzene	**18**	1.7	0.49	**3.0**	0.29	0.081	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.087	
5989-27-5	d-Limonene	**9.4**	1.7	0.49	**1.7**	0.31	0.087	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.56	ND	0.23	0.075	
91-20-3	Naphthalene	ND	1.7	0.63	ND	0.33	0.12	
87-68-3	Hexachlorobutadiene	ND	1.7	0.49	ND	0.16	0.046	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-003

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01009

Initial Pressure (psig): -0.09 Final Pressure (psig): 5.30

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.48	ND	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.7	0.58	**0.42**	0.35	0.12	
74-87-3	Chloromethane	**0.75**	1.7	0.51	**0.36**	0.83	0.25	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.65	ND	0.25	0.093	
75-01-4	Vinyl Chloride	ND	1.7	0.58	ND	0.67	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.75	ND	0.77	0.34	
74-83-9	Bromomethane	ND	1.7	0.65	ND	0.44	0.17	
75-00-3	Chloroethane	ND	1.7	0.58	ND	0.65	0.22	
64-17-5	Ethanol	**18**	17	2.7	**9.5**	9.1	1.5	
75-05-8	Acetonitrile	ND	1.7	0.62	ND	1.0	0.37	
107-02-8	Acrolein	**2.4**	6.9	0.58	**1.0**	3.0	0.25	**J**
67-64-1	Acetone	**1,300**	17	2.6	**540**	7.2	1.1	
75-69-4	Trichlorofluoromethane	**1.3**	1.7	0.58	**0.23**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.7**	17	1.4	**2.3**	7.0	0.59	**J**
107-13-1	Acrylonitrile	ND	1.7	0.58	ND	0.79	0.27	
75-35-4	1,1-Dichloroethene	**9.9**	1.7	0.58	**2.5**	0.43	0.15	
75-09-2	Methylene Chloride	**0.71**	1.7	0.58	**0.20**	0.49	0.17	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.55	ND	0.55	0.18	
76-13-1	Trichlorotrifluoroethane	**3.5**	1.7	0.58	**0.45**	0.22	0.076	
75-15-0	Carbon Disulfide	**17**	17	0.51	**5.5**	5.5	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.65	ND	0.43	0.16	
75-34-3	1,1-Dichloroethane	ND	1.7	0.55	ND	0.42	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.58	ND	0.48	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.9	0.63	
78-93-3	2-Butanone (MEK)	**55**	17	0.72	**19**	5.8	0.24	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-003

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01009

Initial Pressure (psig): -0.09 Final Pressure (psig): 5.30

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.55	ND	0.43	0.14	
141-78-6	Ethyl Acetate	**1.2**	3.4	1.2	**0.35**	0.95	0.33	**J**
110-54-3	n-Hexane	**14**	1.7	0.51	**3.9**	0.49	0.15	
67-66-3	Chloroform	ND	1.7	0.58	ND	0.35	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.69	ND	0.58	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.55	ND	0.42	0.14	
71-55-6	1,1,1-Trichloroethane	**6.6**	1.7	0.58	**1.2**	0.31	0.11	
71-43-2	Benzene	**0.87**	1.7	0.55	**0.27**	0.54	0.17	**J**
56-23-5	Carbon Tetrachloride	**0.56**	1.7	0.51	**0.089**	0.27	0.082	**J**
110-82-7	Cyclohexane	**2.1**	3.4	0.99	**0.60**	1.0	0.29	**J**
78-87-5	1,2-Dichloropropane	ND	1.7	0.55	ND	0.37	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.51	ND	0.26	0.077	
79-01-6	Trichloroethene	**0.62**	1.7	0.48	**0.12**	0.32	0.089	**J**
123-91-1	1,4-Dioxane	**0.90**	1.7	0.55	**0.25**	0.48	0.15	**J**
80-62-6	Methyl Methacrylate	ND	3.4	1.1	ND	0.84	0.26	
142-82-5	n-Heptane	**0.85**	1.7	0.58	**0.21**	0.42	0.14	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**3.9**	1.7	0.55	**0.95**	0.42	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.55	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.55	ND	0.31	0.10	
108-88-3	Toluene	**100**	1.7	0.58	**28**	0.45	0.15	
591-78-6	2-Hexanone	**0.58**	1.7	0.55	**0.14**	0.42	0.13	**J**
124-48-1	Dibromochloromethane	ND	1.7	0.55	ND	0.20	0.064	
106-93-4	1,2-Dibromoethane	ND	1.7	0.55	ND	0.22	0.071	
123-86-4	n-Butyl Acetate	**0.95**	1.7	0.55	**0.20**	0.36	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-03** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-003

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01009

Initial Pressure (psig): -0.09 Final Pressure (psig): 5.30

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.94**	1.7	0.62	**0.20**	0.37	0.13	**J**
127-18-4	Tetrachloroethene	**9.4**	1.7	0.48	**1.4**	0.25	0.071	
108-90-7	Chlorobenzene	ND	1.7	0.55	ND	0.37	0.12	
100-41-4	Ethylbenzene	**85**	1.7	0.55	**20**	0.39	0.13	
179601-23-1	m,p-Xylenes	**320**	3.4	1.0	**75**	0.79	0.24	
75-25-2	Bromoform	ND	1.7	0.51	ND	0.17	0.050	
100-42-5	Styrene	**0.73**	1.7	0.51	**0.17**	0.40	0.12	**J**
95-47-6	o-Xylene	**100**	1.7	0.51	**24**	0.39	0.12	
111-84-2	n-Nonane	**1.8**	1.7	0.51	**0.34**	0.33	0.098	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.51	ND	0.25	0.075	
98-82-8	Cumene	**1.9**	1.7	0.51	**0.39**	0.35	0.10	
80-56-8	alpha-Pinene	**3.4**	1.7	0.48	**0.61**	0.31	0.086	
103-65-1	n-Propylbenzene	**3.0**	1.7	0.55	**0.61**	0.35	0.11	
622-96-8	4-Ethyltoluene	**5.4**	1.7	0.55	**1.1**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**4.7**	1.7	0.55	**0.96**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**12**	1.7	0.51	**2.4**	0.35	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.33	0.073	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
106-46-7	1,4-Dichlorobenzene	**33**	1.7	0.48	**5.4**	0.28	0.080	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
5989-27-5	d-Limonene	**1.4**	1.7	0.48	**0.24**	0.31	0.086	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.55	ND	0.23	0.074	
91-20-3	Naphthalene	**1.5**	1.7	0.62	**0.30**	0.33	0.12	**J, V**
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-004

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00414

Initial Pressure (psig): -0.12 Final Pressure (psig): 5.06

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.48	ND	0.99	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.7	0.58	**0.40**	0.34	0.12	
74-87-3	Chloromethane	**0.74**	1.7	0.51	**0.36**	0.82	0.25	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.65	ND	0.24	0.092	
75-01-4	Vinyl Chloride	ND	1.7	0.58	ND	0.67	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.75	ND	0.77	0.34	
74-83-9	Bromomethane	ND	1.7	0.65	ND	0.44	0.17	
75-00-3	Chloroethane	ND	1.7	0.58	ND	0.64	0.22	
64-17-5	Ethanol	**36**	17	2.7	**19**	9.0	1.4	
75-05-8	Acetonitrile	**1.2**	1.7	0.61	**0.71**	1.0	0.36	**J**
107-02-8	Acrolein	**2.6**	6.8	0.58	**1.1**	3.0	0.25	**J**
67-64-1	Acetone	**2,700**	170	26	**1,100**	72	11	**D**
75-69-4	Trichlorofluoromethane	**1.3**	1.7	0.58	**0.22**	0.30	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.4**	17	1.4	**1.8**	6.9	0.58	**J**
107-13-1	Acrylonitrile	ND	1.7	0.58	ND	0.78	0.27	
75-35-4	1,1-Dichloroethene	**2.1**	1.7	0.58	**0.54**	0.43	0.15	
75-09-2	Methylene Chloride	**0.74**	1.7	0.58	**0.21**	0.49	0.17	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.54	ND	0.54	0.17	
76-13-1	Trichlorotrifluoroethane	**1.9**	1.7	0.58	**0.25**	0.22	0.075	
75-15-0	Carbon Disulfide	**0.92**	17	0.51	**0.30**	5.5	0.16	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.65	ND	0.43	0.16	
75-34-3	1,1-Dichloroethane	ND	1.7	0.54	ND	0.42	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.58	ND	0.47	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.8	0.63	
78-93-3	2-Butanone (MEK)	**75**	17	0.71	**25**	5.8	0.24	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-004

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00414

Initial Pressure (psig): -0.12 Final Pressure (psig): 5.06

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.54	ND	0.43	0.14	
141-78-6	Ethyl Acetate	**1.8**	3.4	1.2	**0.50**	0.94	0.33	**J**
110-54-3	n-Hexane	**17**	1.7	0.51	**4.8**	0.48	0.14	
67-66-3	Chloroform	ND	1.7	0.58	ND	0.35	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.68	ND	0.58	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.54	ND	0.42	0.13	
71-55-6	1,1,1-Trichloroethane	**2.2**	1.7	0.58	**0.39**	0.31	0.11	
71-43-2	Benzene	**0.84**	1.7	0.54	**0.26**	0.53	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.51	ND	0.27	0.081	
110-82-7	Cyclohexane	**2.5**	3.4	0.99	**0.71**	0.99	0.29	**J**
78-87-5	1,2-Dichloropropane	ND	1.7	0.54	ND	0.37	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.51	ND	0.25	0.076	
79-01-6	Trichloroethene	ND	1.7	0.48	ND	0.32	0.089	
123-91-1	1,4-Dioxane	ND	1.7	0.54	ND	0.47	0.15	
80-62-6	Methyl Methacrylate	**2.5**	3.4	1.1	**0.61**	0.83	0.26	**J**
142-82-5	n-Heptane	**1.4**	1.7	0.58	**0.33**	0.41	0.14	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	**10**	1.7	0.54	**2.5**	0.41	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.54	ND	0.37	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.54	ND	0.31	0.10	
108-88-3	Toluene	**160**	1.7	0.58	**44**	0.45	0.15	
591-78-6	2-Hexanone	**1.2**	1.7	0.54	**0.29**	0.42	0.13	**J**
124-48-1	Dibromochloromethane	ND	1.7	0.54	ND	0.20	0.064	
106-93-4	1,2-Dibromoethane	ND	1.7	0.54	ND	0.22	0.071	
123-86-4	n-Butyl Acetate	**5.0**	1.7	0.54	**1.0**	0.36	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-04** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-004

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SC00414

Initial Pressure (psig): -0.12 Final Pressure (psig): 5.06

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.2**	1.7	0.61	**0.48**	0.36	0.13	
127-18-4	Tetrachloroethene	**25**	1.7	0.48	**3.7**	0.25	0.070	
108-90-7	Chlorobenzene	**1.2**	1.7	0.54	**0.27**	0.37	0.12	**J**
100-41-4	Ethylbenzene	**180**	1.7	0.54	**42**	0.39	0.13	
179601-23-1	m,p-Xylenes	**680**	3.4	1.0	**160**	0.78	0.23	
75-25-2	Bromoform	ND	1.7	0.51	ND	0.16	0.049	
100-42-5	Styrene	**0.81**	1.7	0.51	**0.19**	0.40	0.12	**J**
95-47-6	o-Xylene	**240**	1.7	0.51	**56**	0.39	0.12	
111-84-2	n-Nonane	**4.7**	1.7	0.51	**0.89**	0.32	0.097	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.51	ND	0.25	0.074	
98-82-8	Cumene	**3.6**	1.7	0.51	**0.74**	0.35	0.10	
80-56-8	alpha-Pinene	**5.5**	1.7	0.48	**0.98**	0.31	0.085	
103-65-1	n-Propylbenzene	**5.6**	1.7	0.54	**1.1**	0.35	0.11	
622-96-8	4-Ethyltoluene	**10**	1.7	0.54	**2.1**	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	**9.7**	1.7	0.54	**2.0**	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	**22**	1.7	0.51	**4.5**	0.35	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.37	ND	0.33	0.072	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
106-46-7	1,4-Dichlorobenzene	**31**	1.7	0.48	**5.2**	0.28	0.079	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.51	ND	0.28	0.085	
5989-27-5	d-Limonene	**1.8**	1.7	0.48	**0.33**	0.31	0.085	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.54	ND	0.23	0.073	
91-20-3	Naphthalene	ND	1.7	0.61	ND	0.32	0.12	
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-005

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SS00011

Initial Pressure (psig): 0.11 Final Pressure (psig): 7.17

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**25**	1.9	0.52	**15**	1.1	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.9	0.63	**0.44**	0.37	0.13	
74-87-3	Chloromethane	**2.0**	1.9	0.56	**0.97**	0.90	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.70	ND	0.26	0.10	
75-01-4	Vinyl Chloride	ND	1.9	0.63	ND	0.72	0.25	
106-99-0	1,3-Butadiene	ND	1.9	0.81	ND	0.84	0.37	
74-83-9	Bromomethane	ND	1.9	0.70	ND	0.48	0.18	
75-00-3	Chloroethane	ND	1.9	0.63	ND	0.70	0.24	
64-17-5	Ethanol	**310**	19	3.0	**160**	9.8	1.6	
75-05-8	Acetonitrile	**0.80**	1.9	0.67	**0.48**	1.1	0.40	**J**
107-02-8	Acrolein	**15**	7.4	0.63	**6.4**	3.2	0.27	
67-64-1	Acetone	**200**	19	2.8	**83**	7.8	1.2	
75-69-4	Trichlorofluoromethane	**38**	1.9	0.63	**6.8**	0.33	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	**200**	19	1.6	**81**	7.5	0.63	
107-13-1	Acrylonitrile	**2.0**	1.9	0.63	**0.93**	0.85	0.29	
75-35-4	1,1-Dichloroethene	ND	1.9	0.63	ND	0.47	0.16	
75-09-2	Methylene Chloride	**40**	1.9	0.63	**12**	0.53	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.59	ND	0.59	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.63	ND	0.24	0.082	
75-15-0	Carbon Disulfide	**66**	19	0.56	**21**	5.9	0.18	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.70	ND	0.47	0.18	
75-34-3	1,1-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.63	ND	0.51	0.17	
108-05-4	Vinyl Acetate	ND	19	2.4	ND	5.3	0.68	
78-93-3	2-Butanone (MEK)	**60**	19	0.78	**20**	6.3	0.26	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-005

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SS00011

Initial Pressure (psig): 0.11 Final Pressure (psig): 7.17

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.59	ND	0.47	0.15	
141-78-6	Ethyl Acetate	**1,300**	37	13	**370**	10	3.6	**D**
110-54-3	n-Hexane	**9.3**	1.9	0.56	**2.6**	0.53	0.16	
67-66-3	Chloroform	**1.4**	1.9	0.63	**0.29**	0.38	0.13	**J**
109-99-9	Tetrahydrofuran (THF)	**6.5**	1.9	0.74	**2.2**	0.63	0.25	
107-06-2	1,2-Dichloroethane	**6.6**	1.9	0.59	**1.6**	0.46	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.63	ND	0.34	0.12	
71-43-2	Benzene	**28**	1.9	0.59	**8.7**	0.58	0.19	
56-23-5	Carbon Tetrachloride	**0.61**	1.9	0.56	**0.097**	0.29	0.088	**J**
110-82-7	Cyclohexane	**33**	3.7	1.1	**9.6**	1.1	0.31	
78-87-5	1,2-Dichloropropane	**22**	1.9	0.59	**4.8**	0.40	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.56	ND	0.28	0.083	
79-01-6	Trichloroethene	**1.3**	1.9	0.52	**0.25**	0.34	0.096	**J**
123-91-1	1,4-Dioxane	ND	1.9	0.59	ND	0.51	0.16	
80-62-6	Methyl Methacrylate	**9.1**	3.7	1.1	**2.2**	0.90	0.28	
142-82-5	n-Heptane	**6.5**	1.9	0.63	**1.6**	0.45	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.52	ND	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	**3.7**	1.9	0.59	**0.91**	0.45	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.59	ND	0.41	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.59	ND	0.34	0.11	
108-88-3	Toluene	**450**	19	6.3	**120**	4.9	1.7	**D**
591-78-6	2-Hexanone	ND	1.9	0.59	ND	0.45	0.14	
124-48-1	Dibromochloromethane	ND	1.9	0.59	ND	0.22	0.070	
106-93-4	1,2-Dibromoethane	ND	1.9	0.59	ND	0.24	0.077	
123-86-4	n-Butyl Acetate	**12**	1.9	0.59	**2.6**	0.39	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-05** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-005

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes: 0.040 Liter(s)
Container ID: 1SS00011

Initial Pressure (psig): 0.11 Final Pressure (psig): 7.17

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**5.5**	1.9	0.67	**1.2**	0.40	0.14	
127-18-4	Tetrachloroethene	**12**	1.9	0.52	**1.8**	0.27	0.076	
108-90-7	Chlorobenzene	**1.4**	1.9	0.59	**0.29**	0.40	0.13	**J**
100-41-4	Ethylbenzene	**13**	1.9	0.59	**3.0**	0.43	0.14	
179601-23-1	m,p-Xylenes	**26**	3.7	1.1	**6.0**	0.85	0.26	
75-25-2	Bromoform	ND	1.9	0.56	ND	0.18	0.054	
100-42-5	Styrene	**14**	1.9	0.56	**3.4**	0.43	0.13	
95-47-6	o-Xylene	**10**	1.9	0.56	**2.4**	0.43	0.13	
111-84-2	n-Nonane	**5.1**	1.9	0.56	**0.98**	0.35	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.56	ND	0.27	0.081	
98-82-8	Cumene	**1.9**	1.9	0.56	**0.40**	0.38	0.11	
80-56-8	alpha-Pinene	**20**	1.9	0.52	**3.6**	0.33	0.093	
103-65-1	n-Propylbenzene	**1.8**	1.9	0.59	**0.37**	0.38	0.12	**J**
622-96-8	4-Ethyltoluene	**2.0**	1.9	0.59	**0.40**	0.38	0.12	
108-67-8	1,3,5-Trimethylbenzene	**1.6**	1.9	0.59	**0.32**	0.38	0.12	**J**
95-63-6	1,2,4-Trimethylbenzene	**5.4**	1.9	0.56	**1.1**	0.38	0.11	
100-44-7	Benzyl Chloride	ND	1.9	0.41	ND	0.36	0.079	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.52	ND	0.31	0.086	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
5989-27-5	d-Limonene	**16**	1.9	0.52	**2.9**	0.33	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.37	ND	0.19	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.59	ND	0.25	0.080	
91-20-3	Naphthalene	**1.0**	1.9	0.67	**0.19**	0.35	0.13	**J**
87-68-3	Hexachlorobutadiene	ND	1.9	0.52	ND	0.17	0.049	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-006

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00877

Initial Pressure (psig): -0.27 Final Pressure (psig): 7.89

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.9**	2.0	0.55	**4.0**	1.1	0.32	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	2.0	0.67	**0.40**	0.40	0.13	
74-87-3	Chloromethane	ND	2.0	0.59	ND	0.95	0.29	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.75	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	2.0	0.67	ND	0.77	0.26	
106-99-0	1,3-Butadiene	ND	2.0	0.86	ND	0.89	0.39	
74-83-9	Bromomethane	ND	2.0	0.75	ND	0.51	0.19	
75-00-3	Chloroethane	ND	2.0	0.67	ND	0.74	0.25	
64-17-5	Ethanol	**120**	20	3.1	**64**	10	1.7	
75-05-8	Acetonitrile	ND	2.0	0.71	ND	1.2	0.42	
107-02-8	Acrolein	**2.8**	7.9	0.67	**1.2**	3.4	0.29	**J**
67-64-1	Acetone	**720**	20	3.0	**310**	8.3	1.3	
75-69-4	Trichlorofluoromethane	**1.2**	2.0	0.67	**0.21**	0.35	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**15**	20	1.6	**6.1**	8.0	0.67	**J**
107-13-1	Acrylonitrile	ND	2.0	0.67	ND	0.90	0.31	
75-35-4	1,1-Dichloroethene	**10**	2.0	0.67	**2.6**	0.50	0.17	
75-09-2	Methylene Chloride	**3.2**	2.0	0.67	**0.93**	0.57	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.63	ND	0.63	0.20	
76-13-1	Trichlorotrifluoroethane	ND	2.0	0.67	ND	0.26	0.087	
75-15-0	Carbon Disulfide	**1.1**	20	0.59	**0.35**	6.3	0.19	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.75	ND	0.50	0.19	
75-34-3	1,1-Dichloroethane	**3.8**	2.0	0.63	**0.95**	0.49	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.67	ND	0.54	0.19	
108-05-4	Vinyl Acetate	ND	20	2.6	ND	5.6	0.72	
78-93-3	2-Butanone (MEK)	**81**	20	0.82	**28**	6.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-006

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00877

Initial Pressure (psig): -0.27 Final Pressure (psig): 7.89

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.63	ND	0.50	0.16	
141-78-6	Ethyl Acetate	ND	3.9	1.4	ND	1.1	0.38	
110-54-3	n-Hexane	**28**	2.0	0.59	**7.9**	0.56	0.17	
67-66-3	Chloroform	**0.71**	2.0	0.67	**0.15**	0.40	0.14	**J**
109-99-9	Tetrahydrofuran (THF)	ND	2.0	0.79	ND	0.67	0.27	
107-06-2	1,2-Dichloroethane	ND	2.0	0.63	ND	0.49	0.16	
71-55-6	1,1,1-Trichloroethane	**63**	2.0	0.67	**12**	0.36	0.12	
71-43-2	Benzene	ND	2.0	0.63	ND	0.61	0.20	
56-23-5	Carbon Tetrachloride	ND	2.0	0.59	ND	0.31	0.094	
110-82-7	Cyclohexane	**2.7**	3.9	1.1	**0.78**	1.1	0.33	**J**
78-87-5	1,2-Dichloropropane	ND	2.0	0.63	ND	0.42	0.14	
75-27-4	Bromodichloromethane	ND	2.0	0.59	ND	0.29	0.088	
79-01-6	Trichloroethene	**1.0**	2.0	0.55	**0.19**	0.37	0.10	**J**
123-91-1	1,4-Dioxane	ND	2.0	0.63	ND	0.54	0.17	
80-62-6	Methyl Methacrylate	ND	3.9	1.2	ND	0.96	0.30	
142-82-5	n-Heptane	**0.83**	2.0	0.67	**0.20**	0.48	0.16	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.55	ND	0.43	0.12	
108-10-1	4-Methyl-2-pentanone	**17**	2.0	0.63	**4.1**	0.48	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.63	ND	0.43	0.14	
79-00-5	1,1,2-Trichloroethane	**1.3**	2.0	0.63	**0.24**	0.36	0.12	**J**
108-88-3	Toluene	**59**	2.0	0.67	**16**	0.52	0.18	
591-78-6	2-Hexanone	**1.0**	2.0	0.63	**0.25**	0.48	0.15	**J**
124-48-1	Dibromochloromethane	ND	2.0	0.63	ND	0.23	0.074	
106-93-4	1,2-Dibromoethane	ND	2.0	0.63	ND	0.26	0.082	
123-86-4	n-Butyl Acetate	**0.68**	2.0	0.63	**0.14**	0.41	0.13	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-06** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-006

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00877

Initial Pressure (psig): -0.27 Final Pressure (psig): 7.89

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.4**	2.0	0.71	**0.29**	0.42	0.15	**J**
127-18-4	Tetrachloroethene	**59**	2.0	0.55	**8.7**	0.29	0.081	
108-90-7	Chlorobenzene	ND	2.0	0.63	ND	0.43	0.14	
100-41-4	Ethylbenzene	**51**	2.0	0.63	**12**	0.45	0.14	
179601-23-1	m,p-Xylenes	**210**	3.9	1.2	**49**	0.90	0.27	
75-25-2	Bromoform	ND	2.0	0.59	ND	0.19	0.057	
100-42-5	Styrene	ND	2.0	0.59	ND	0.46	0.14	
95-47-6	o-Xylene	**81**	2.0	0.59	**19**	0.45	0.14	
111-84-2	n-Nonane	**3.2**	2.0	0.59	**0.62**	0.37	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.59	ND	0.29	0.086	
98-82-8	Cumene	**1.9**	2.0	0.59	**0.39**	0.40	0.12	**J**
80-56-8	alpha-Pinene	**2.3**	2.0	0.55	**0.41**	0.35	0.099	
103-65-1	n-Propylbenzene	**4.2**	2.0	0.63	**0.86**	0.40	0.13	
622-96-8	4-Ethyltoluene	**9.2**	2.0	0.63	**1.9**	0.40	0.13	
108-67-8	1,3,5-Trimethylbenzene	**9.7**	2.0	0.63	**2.0**	0.40	0.13	
95-63-6	1,2,4-Trimethylbenzene	**17**	2.0	0.59	**3.4**	0.40	0.12	
100-44-7	Benzyl Chloride	ND	2.0	0.43	ND	0.38	0.083	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.098	
106-46-7	1,4-Dichlorobenzene	**28**	2.0	0.55	**4.6**	0.33	0.091	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.098	
5989-27-5	d-Limonene	**1.8**	2.0	0.55	**0.33**	0.35	0.099	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.39	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.63	ND	0.26	0.085	
91-20-3	Naphthalene	ND	2.0	0.71	ND	0.37	0.13	
87-68-3	Hexachlorobutadiene	ND	2.0	0.55	ND	0.18	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-007

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00054

Initial Pressure (psig): -0.17 Final Pressure (psig): 5.58

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**15**	1.8	0.49	**8.6**	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.8	0.60	**0.40**	0.35	0.12	
74-87-3	Chloromethane	**0.60**	1.8	0.53	**0.29**	0.85	0.25	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.67	ND	0.25	0.095	
75-01-4	Vinyl Chloride	ND	1.8	0.60	ND	0.68	0.23	
106-99-0	1,3-Butadiene	ND	1.8	0.77	ND	0.79	0.35	
74-83-9	Bromomethane	ND	1.8	0.67	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.8	0.60	ND	0.66	0.23	
64-17-5	Ethanol	**250**	18	2.8	**140**	9.3	1.5	
75-05-8	Acetonitrile	**0.72**	1.8	0.63	**0.43**	1.0	0.38	**J**
107-02-8	Acrolein	**3.0**	7.0	0.60	**1.3**	3.1	0.26	**J**
67-64-1	Acetone	**490**	18	2.7	**210**	7.4	1.1	
75-69-4	Trichlorofluoromethane	**1.2**	1.8	0.60	**0.21**	0.31	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**23**	18	1.5	**9.5**	7.1	0.60	
107-13-1	Acrylonitrile	ND	1.8	0.60	ND	0.81	0.27	
75-35-4	1,1-Dichloroethene	ND	1.8	0.60	ND	0.44	0.15	
75-09-2	Methylene Chloride	**2.2**	1.8	0.60	**0.64**	0.50	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.8	0.60	ND	0.23	0.078	
75-15-0	Carbon Disulfide	**7.1**	18	0.53	**2.3**	5.6	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.67	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	ND	1.8	0.56	ND	0.43	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.60	ND	0.49	0.17	
108-05-4	Vinyl Acetate	ND	18	2.3	ND	5.0	0.65	
78-93-3	2-Butanone (MEK)	**68**	18	0.74	**23**	5.9	0.25	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-007

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00054

Initial Pressure (psig): -0.17 Final Pressure (psig): 5.58

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.8	0.56	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**2.8**	3.5	1.2	**0.77**	0.97	0.34	**J**
110-54-3	n-Hexane	**29**	1.8	0.53	**8.1**	0.50	0.15	
67-66-3	Chloroform	ND	1.8	0.60	ND	0.36	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.8	0.70	ND	0.59	0.24	
107-06-2	1,2-Dichloroethane	ND	1.8	0.56	ND	0.43	0.14	
71-55-6	1,1,1-Trichloroethane	**6.8**	1.8	0.60	**1.3**	0.32	0.11	
71-43-2	Benzene	**13**	1.8	0.56	**4.0**	0.55	0.18	
56-23-5	Carbon Tetrachloride	ND	1.8	0.53	ND	0.28	0.083	
110-82-7	Cyclohexane	**3.6**	3.5	1.0	**1.1**	1.0	0.29	
78-87-5	1,2-Dichloropropane	ND	1.8	0.56	ND	0.38	0.12	
75-27-4	Bromodichloromethane	ND	1.8	0.53	ND	0.26	0.078	
79-01-6	Trichloroethene	**1.2**	1.8	0.49	**0.22**	0.33	0.091	**J**
123-91-1	1,4-Dioxane	ND	1.8	0.56	ND	0.49	0.16	
80-62-6	Methyl Methacrylate	ND	3.5	1.1	ND	0.86	0.27	
142-82-5	n-Heptane	**2.1**	1.8	0.60	**0.50**	0.43	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.49	ND	0.39	0.11	
108-10-1	4-Methyl-2-pentanone	**16**	1.8	0.56	**4.0**	0.43	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.56	ND	0.39	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.56	ND	0.32	0.10	
108-88-3	Toluene	**210**	1.8	0.60	**57**	0.46	0.16	
591-78-6	2-Hexanone	**1.2**	1.8	0.56	**0.30**	0.43	0.14	**J**
124-48-1	Dibromochloromethane	ND	1.8	0.56	ND	0.21	0.066	
106-93-4	1,2-Dibromoethane	ND	1.8	0.56	ND	0.23	0.073	
123-86-4	n-Butyl Acetate	**1.4**	1.8	0.56	**0.28**	0.37	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-07** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-007

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00054

Initial Pressure (psig): -0.17 Final Pressure (psig): 5.58

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**3.1**	1.8	0.63	**0.66**	0.37	0.13	
127-18-4	Tetrachloroethene	**62**	1.8	0.49	**9.1**	0.26	0.072	
108-90-7	Chlorobenzene	ND	1.8	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**44**	1.8	0.56	**10**	0.40	0.13	
179601-23-1	m,p-Xylenes	**190**	3.5	1.1	**44**	0.81	0.24	
75-25-2	Bromoform	ND	1.8	0.53	ND	0.17	0.051	
100-42-5	Styrene	**1.9**	1.8	0.53	**0.44**	0.41	0.12	
95-47-6	o-Xylene	**66**	1.8	0.53	**15**	0.40	0.12	
111-84-2	n-Nonane	**5.3**	1.8	0.53	**1.0**	0.33	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.53	ND	0.25	0.076	
98-82-8	Cumene	**2.5**	1.8	0.53	**0.52**	0.36	0.11	
80-56-8	alpha-Pinene	**7.1**	1.8	0.49	**1.3**	0.31	0.088	
103-65-1	n-Propylbenzene	**4.3**	1.8	0.56	**0.88**	0.36	0.11	
622-96-8	4-Ethyltoluene	**8.5**	1.8	0.56	**1.7**	0.36	0.11	
108-67-8	1,3,5-Trimethylbenzene	**8.1**	1.8	0.56	**1.7**	0.36	0.11	
95-63-6	1,2,4-Trimethylbenzene	**21**	1.8	0.53	**4.2**	0.36	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.39	ND	0.34	0.074	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.087	
106-46-7	1,4-Dichlorobenzene	**51**	1.8	0.49	**8.4**	0.29	0.082	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.087	
5989-27-5	d-Limonene	**3.7**	1.8	0.49	**0.66**	0.31	0.088	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.35	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.56	ND	0.24	0.075	
91-20-3	Naphthalene	ND	1.8	0.63	ND	0.33	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.49	ND	0.16	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-008

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00043

Initial Pressure (psig): -0.14 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.8	0.49	ND	1.0	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.8	0.60	**0.42**	0.36	0.12	
74-87-3	Chloromethane	**0.68**	1.8	0.53	**0.33**	0.85	0.26	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.67	ND	0.25	0.096	
75-01-4	Vinyl Chloride	ND	1.8	0.60	ND	0.69	0.23	
106-99-0	1,3-Butadiene	ND	1.8	0.78	ND	0.80	0.35	
74-83-9	Bromomethane	ND	1.8	0.67	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.8	0.60	ND	0.67	0.23	
64-17-5	Ethanol	**49**	18	2.8	**26**	9.4	1.5	
75-05-8	Acetonitrile	**0.92**	1.8	0.63	**0.55**	1.1	0.38	**J**
107-02-8	Acrolein	**6.1**	7.1	0.60	**2.7**	3.1	0.26	**J**
67-64-1	Acetone	**74**	18	2.7	**31**	7.4	1.1	
75-69-4	Trichlorofluoromethane	**3.2**	1.8	0.60	**0.57**	0.31	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	**14**	18	1.5	**5.7**	7.2	0.60	**J**
107-13-1	Acrylonitrile	ND	1.8	0.60	ND	0.81	0.28	
75-35-4	1,1-Dichloroethene	**240**	1.8	0.60	**60**	0.44	0.15	
75-09-2	Methylene Chloride	**2.5**	1.8	0.60	**0.73**	0.51	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.8	0.60	ND	0.23	0.078	
75-15-0	Carbon Disulfide	**11**	18	0.53	**3.6**	5.7	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.67	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	**14**	1.8	0.56	**3.4**	0.44	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.60	ND	0.49	0.17	
108-05-4	Vinyl Acetate	ND	18	2.3	ND	5.0	0.65	
78-93-3	2-Butanone (MEK)	**18**	18	0.74	**5.9**	6.0	0.25	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-008

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00043

Initial Pressure (psig): -0.14 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	**1.6**	1.8	0.56	**0.41**	0.44	0.14	**J**
141-78-6	Ethyl Acetate	**120**	3.5	1.2	**33**	0.98	0.34	
110-54-3	n-Hexane	**11**	1.8	0.53	**3.1**	0.50	0.15	
67-66-3	Chloroform	**1.1**	1.8	0.60	**0.23**	0.36	0.12	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.8	0.71	ND	0.60	0.24	
107-06-2	1,2-Dichloroethane	ND	1.8	0.56	ND	0.44	0.14	
71-55-6	1,1,1-Trichloroethane	**28**	1.8	0.60	**5.2**	0.32	0.11	
71-43-2	Benzene	**2.4**	1.8	0.56	**0.75**	0.55	0.18	
56-23-5	Carbon Tetrachloride	ND	1.8	0.53	ND	0.28	0.084	
110-82-7	Cyclohexane	**4.0**	3.5	1.0	**1.2**	1.0	0.30	
78-87-5	1,2-Dichloropropane	**1.4**	1.8	0.56	**0.30**	0.38	0.12	**J**
75-27-4	Bromodichloromethane	ND	1.8	0.53	ND	0.26	0.079	
79-01-6	Trichloroethene	**2.0**	1.8	0.49	**0.37**	0.33	0.092	
123-91-1	1,4-Dioxane	ND	1.8	0.56	ND	0.49	0.16	
80-62-6	Methyl Methacrylate	ND	3.5	1.1	ND	0.86	0.27	
142-82-5	n-Heptane	**1.4**	1.8	0.60	**0.34**	0.43	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.49	ND	0.39	0.11	
108-10-1	4-Methyl-2-pentanone	**3.8**	1.8	0.56	**0.93**	0.43	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.56	ND	0.39	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.56	ND	0.32	0.10	
108-88-3	Toluene	**110**	1.8	0.60	**30**	0.47	0.16	
591-78-6	2-Hexanone	**1.9**	1.8	0.56	**0.47**	0.43	0.14	
124-48-1	Dibromochloromethane	ND	1.8	0.56	ND	0.21	0.066	
106-93-4	1,2-Dibromoethane	ND	1.8	0.56	ND	0.23	0.073	
123-86-4	n-Butyl Acetate	**2.8**	1.8	0.56	**0.59**	0.37	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-08** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-008

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00043

Initial Pressure (psig): -0.14 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.7**	1.8	0.63	**0.36**	0.38	0.14	**J**
127-18-4	Tetrachloroethene	**24**	1.8	0.49	**3.6**	0.26	0.073	
108-90-7	Chlorobenzene	ND	1.8	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**22**	1.8	0.56	**5.1**	0.41	0.13	
179601-23-1	m,p-Xylenes	**99**	3.5	1.1	**23**	0.81	0.24	
75-25-2	Bromoform	ND	1.8	0.53	ND	0.17	0.051	
100-42-5	Styrene	**2.3**	1.8	0.53	**0.55**	0.41	0.12	
95-47-6	o-Xylene	**34**	1.8	0.53	**7.8**	0.41	0.12	
111-84-2	n-Nonane	**2.8**	1.8	0.53	**0.54**	0.34	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.53	ND	0.26	0.077	
98-82-8	Cumene	**1.2**	1.8	0.53	**0.24**	0.36	0.11	**J**
80-56-8	alpha-Pinene	**6.9**	1.8	0.49	**1.2**	0.32	0.089	
103-65-1	n-Propylbenzene	**2.6**	1.8	0.56	**0.52**	0.36	0.11	
622-96-8	4-Ethyltoluene	**5.0**	1.8	0.56	**1.0**	0.36	0.11	
108-67-8	1,3,5-Trimethylbenzene	**4.8**	1.8	0.56	**0.97**	0.36	0.11	
95-63-6	1,2,4-Trimethylbenzene	**14**	1.8	0.53	**2.8**	0.36	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.39	ND	0.34	0.075	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
106-46-7	1,4-Dichlorobenzene	**30**	1.8	0.49	**5.0**	0.29	0.082	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
5989-27-5	d-Limonene	**4.7**	1.8	0.49	**0.84**	0.32	0.089	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.35	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.56	ND	0.24	0.076	
91-20-3	Naphthalene	ND	1.8	0.63	ND	0.34	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.49	ND	0.17	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-009

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00166

Initial Pressure (psig): -0.19 Final Pressure (psig): 5.71

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.8	0.49	ND	1.0	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.8	0.60	**0.41**	0.36	0.12	
74-87-3	Chloromethane	**0.65**	1.8	0.53	**0.31**	0.85	0.26	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.67	ND	0.25	0.096	
75-01-4	Vinyl Chloride	ND	1.8	0.60	ND	0.69	0.23	
106-99-0	1,3-Butadiene	ND	1.8	0.78	ND	0.80	0.35	
74-83-9	Bromomethane	ND	1.8	0.67	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.8	0.60	ND	0.67	0.23	
64-17-5	Ethanol	**220**	18	2.8	**120**	9.4	1.5	
75-05-8	Acetonitrile	ND	1.8	0.63	ND	1.1	0.38	
107-02-8	Acrolein	**2.1**	7.1	0.60	**0.90**	3.1	0.26	**J**
67-64-1	Acetone	**350**	18	2.7	**150**	7.4	1.1	
75-69-4	Trichlorofluoromethane	**1.3**	1.8	0.60	**0.22**	0.31	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**31**	18	1.5	**13**	7.2	0.60	
107-13-1	Acrylonitrile	ND	1.8	0.60	ND	0.81	0.28	
75-35-4	1,1-Dichloroethene	**2.8**	1.8	0.60	**0.70**	0.44	0.15	
75-09-2	Methylene Chloride	**1.6**	1.8	0.60	**0.47**	0.51	0.17	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	**0.67**	1.8	0.60	**0.087**	0.23	0.078	**J**
75-15-0	Carbon Disulfide	**1.3**	18	0.53	**0.41**	5.7	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.67	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	ND	1.8	0.56	ND	0.44	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.60	ND	0.49	0.17	
108-05-4	Vinyl Acetate	ND	18	2.3	ND	5.0	0.65	
78-93-3	2-Butanone (MEK)	**54**	18	0.74	**18**	6.0	0.25	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-009

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00166

Initial Pressure (psig): -0.19 Final Pressure (psig): 5.71

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.8	0.56	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**11**	3.5	1.2	**3.2**	0.98	0.34	
110-54-3	n-Hexane	**21**	1.8	0.53	**5.9**	0.50	0.15	
67-66-3	Chloroform	ND	1.8	0.60	ND	0.36	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.8	0.71	ND	0.60	0.24	
107-06-2	1,2-Dichloroethane	ND	1.8	0.56	ND	0.44	0.14	
71-55-6	1,1,1-Trichloroethane	**2.7**	1.8	0.60	**0.50**	0.32	0.11	
71-43-2	Benzene	**1.5**	1.8	0.56	**0.47**	0.55	0.18	**J**
56-23-5	Carbon Tetrachloride	ND	1.8	0.53	ND	0.28	0.084	
110-82-7	Cyclohexane	**3.1**	3.5	1.0	**0.91**	1.0	0.30	**J**
78-87-5	1,2-Dichloropropane	ND	1.8	0.56	ND	0.38	0.12	
75-27-4	Bromodichloromethane	ND	1.8	0.53	ND	0.26	0.079	
79-01-6	Trichloroethene	**2.2**	1.8	0.49	**0.41**	0.33	0.092	
123-91-1	1,4-Dioxane	ND	1.8	0.56	ND	0.49	0.16	
80-62-6	Methyl Methacrylate	ND	3.5	1.1	ND	0.86	0.27	
142-82-5	n-Heptane	**1.5**	1.8	0.60	**0.37**	0.43	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.49	ND	0.39	0.11	
108-10-1	4-Methyl-2-pentanone	**13**	1.8	0.56	**3.2**	0.43	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.56	ND	0.39	0.12	
79-00-5	1,1,2-Trichloroethane	**0.62**	1.8	0.56	**0.11**	0.32	0.10	**J**
108-88-3	Toluene	**160**	1.8	0.60	**43**	0.47	0.16	
591-78-6	2-Hexanone	ND	1.8	0.56	ND	0.43	0.14	
124-48-1	Dibromochloromethane	ND	1.8	0.56	ND	0.21	0.066	
106-93-4	1,2-Dibromoethane	ND	1.8	0.56	ND	0.23	0.073	
123-86-4	n-Butyl Acetate	**0.68**	1.8	0.56	**0.14**	0.37	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE-OBS-09** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-009

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00166

Initial Pressure (psig): -0.19 Final Pressure (psig): 5.71

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.1**	1.8	0.63	**0.44**	0.38	0.14	
127-18-4	Tetrachloroethene	**42**	1.8	0.49	**6.2**	0.26	0.073	
108-90-7	Chlorobenzene	ND	1.8	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**28**	1.8	0.56	**6.4**	0.41	0.13	
179601-23-1	m,p-Xylenes	**120**	3.5	1.1	**27**	0.81	0.24	
75-25-2	Bromoform	ND	1.8	0.53	ND	0.17	0.051	
100-42-5	Styrene	**2.6**	1.8	0.53	**0.62**	0.41	0.12	
95-47-6	o-Xylene	**40**	1.8	0.53	**9.2**	0.41	0.12	
111-84-2	n-Nonane	**3.6**	1.8	0.53	**0.68**	0.34	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.53	ND	0.26	0.077	
98-82-8	Cumene	**1.5**	1.8	0.53	**0.31**	0.36	0.11	**J**
80-56-8	alpha-Pinene	**13**	1.8	0.49	**2.3**	0.32	0.089	
103-65-1	n-Propylbenzene	**3.4**	1.8	0.56	**0.69**	0.36	0.11	
622-96-8	4-Ethyltoluene	**6.3**	1.8	0.56	**1.3**	0.36	0.11	
108-67-8	1,3,5-Trimethylbenzene	**5.6**	1.8	0.56	**1.1**	0.36	0.11	
95-63-6	1,2,4-Trimethylbenzene	**16**	1.8	0.53	**3.3**	0.36	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.39	ND	0.34	0.075	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
106-46-7	1,4-Dichlorobenzene	**45**	1.8	0.49	**7.4**	0.29	0.082	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
5989-27-5	d-Limonene	**6.3**	1.8	0.49	**1.1**	0.32	0.089	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.35	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.56	ND	0.24	0.076	
91-20-3	Naphthalene	ND	1.8	0.63	ND	0.34	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.49	ND	0.17	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	34	9.6	ND	20	5.6	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	34	12	ND	6.9	2.4	
74-87-3	Chloromethane	ND	34	10	ND	17	5.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	34	13	ND	4.9	1.9	
75-01-4	Vinyl Chloride	ND	34	12	ND	13	4.6	
106-99-0	1,3-Butadiene	ND	34	15	ND	15	6.8	
74-83-9	Bromomethane	ND	34	13	ND	8.8	3.4	
75-00-3	Chloroethane	ND	34	12	ND	13	4.4	
64-17-5	Ethanol	ND	340	55	ND	180	29	
75-05-8	Acetonitrile	ND	34	12	ND	20	7.3	
107-02-8	Acrolein	ND	140	12	ND	60	5.1	
67-64-1	Acetone	**140**	340	53	**59**	140	22	**J**
75-69-4	Trichlorofluoromethane	ND	34	12	ND	6.1	2.1	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	340	29	ND	140	12	
107-13-1	Acrylonitrile	ND	34	12	ND	16	5.4	
75-35-4	1,1-Dichloroethene	**310**	34	12	**78**	8.6	2.9	
75-09-2	Methylene Chloride	ND	34	12	ND	9.9	3.4	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	34	11	ND	11	3.5	
76-13-1	Trichlorotrifluoroethane	**22**	34	12	**2.9**	4.5	1.5	**J**
75-15-0	Carbon Disulfide	ND	340	10	ND	110	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	34	13	ND	8.6	3.3	
75-34-3	1,1-Dichloroethane	ND	34	11	ND	8.5	2.7	
1634-04-4	Methyl tert-Butyl Ether	ND	34	12	ND	9.5	3.2	
108-05-4	Vinyl Acetate	ND	340	45	ND	97	13	
78-93-3	2-Butanone (MEK)	**18**	340	14	**6.0**	120	4.9	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	34	11	ND	8.6	2.8	
141-78-6	Ethyl Acetate	ND	69	24	ND	19	6.7	
110-54-3	n-Hexane	ND	34	10	ND	9.7	2.9	
67-66-3	Chloroform	ND	34	12	ND	7.0	2.4	
109-99-9	Tetrahydrofuran (THF)	ND	34	14	ND	12	4.6	
107-06-2	1,2-Dichloroethane	ND	34	11	ND	8.5	2.7	
71-55-6	1,1,1-Trichloroethane	**84**	34	12	**15**	6.3	2.1	
71-43-2	Benzene	ND	34	11	ND	11	3.4	
56-23-5	Carbon Tetrachloride	ND	34	10	ND	5.4	1.6	
110-82-7	Cyclohexane	ND	69	20	ND	20	5.8	
78-87-5	1,2-Dichloropropane	ND	34	11	ND	7.4	2.4	
75-27-4	Bromodichloromethane	ND	34	10	ND	5.1	1.5	
79-01-6	Trichloroethene	ND	34	9.6	ND	6.4	1.8	
123-91-1	1,4-Dioxane	**5,900**	34	11	**1,600**	9.5	3.0	
80-62-6	Methyl Methacrylate	ND	69	21	ND	17	5.2	
142-82-5	n-Heptane	ND	34	12	ND	8.4	2.8	
10061-01-5	cis-1,3-Dichloropropene	ND	34	9.6	ND	7.5	2.1	
108-10-1	4-Methyl-2-pentanone	ND	34	11	ND	8.4	2.7	
10061-02-6	trans-1,3-Dichloropropene	ND	34	11	ND	7.5	2.4	
79-00-5	1,1,2-Trichloroethane	ND	34	11	ND	6.3	2.0	
108-88-3	Toluene	**25**	34	12	**6.6**	9.1	3.1	**J**
591-78-6	2-Hexanone	ND	34	11	ND	8.4	2.7	
124-48-1	Dibromochloromethane	ND	34	11	ND	4.0	1.3	
106-93-4	1,2-Dibromoethane	ND	34	11	ND	4.5	1.4	
123-86-4	n-Butyl Acetate	ND	34	11	ND	7.2	2.3	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	34	12	ND	7.3	2.6	
127-18-4	Tetrachloroethene	**27**	34	9.6	**4.0**	5.1	1.4	**J**
108-90-7	Chlorobenzene	ND	34	11	ND	7.4	2.4	
100-41-4	Ethylbenzene	ND	34	11	ND	7.9	2.5	
179601-23-1	m,p-Xylenes	**37**	69	21	**8.5**	16	4.7	**J**
75-25-2	Bromoform	ND	34	10	ND	3.3	0.99	
100-42-5	Styrene	ND	34	10	ND	8.0	2.4	
95-47-6	o-Xylene	**14**	34	10	**3.1**	7.9	2.4	**J**
111-84-2	n-Nonane	ND	34	10	ND	6.5	2.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	34	10	ND	5.0	1.5	
98-82-8	Cumene	ND	34	10	ND	7.0	2.1	
80-56-8	alpha-Pinene	ND	34	9.6	ND	6.1	1.7	
103-65-1	n-Propylbenzene	ND	34	11	ND	7.0	2.2	
622-96-8	4-Ethyltoluene	ND	34	11	ND	7.0	2.2	
108-67-8	1,3,5-Trimethylbenzene	ND	34	11	ND	7.0	2.2	
95-63-6	1,2,4-Trimethylbenzene	ND	34	10	ND	7.0	2.1	
100-44-7	Benzyl Chloride	ND	34	7.5	ND	6.6	1.5	
541-73-1	1,3-Dichlorobenzene	ND	34	10	ND	5.7	1.7	
106-46-7	1,4-Dichlorobenzene	**46**	34	9.6	**7.6**	5.7	1.6	
95-50-1	1,2-Dichlorobenzene	ND	34	10	ND	5.7	1.7	
5989-27-5	d-Limonene	ND	34	9.6	ND	6.1	1.7	
96-12-8	1,2-Dibromo-3-chloropropane	ND	34	6.8	ND	3.5	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	34	11	ND	4.6	1.5	
91-20-3	Naphthalene	ND	34	12	ND	6.5	2.4	
87-68-3	Hexachlorobutadiene	ND	34	9.6	ND	3.2	0.90	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 1** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-011

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SS00070

Initial Pressure (psig): -0.43 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	36	10	ND	21	5.8	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	36	12	ND	7.2	2.5	
74-87-3	Chloromethane	ND	36	11	ND	17	5.2	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	36	14	ND	5.1	1.9	
75-01-4	Vinyl Chloride	ND	36	12	ND	14	4.8	
106-99-0	1,3-Butadiene	ND	36	16	ND	16	7.1	
74-83-9	Bromomethane	ND	36	14	ND	9.2	3.5	
75-00-3	Chloroethane	ND	36	12	ND	14	4.6	
64-17-5	Ethanol	**72**	360	57	**38**	190	30	**J**
75-05-8	Acetonitrile	ND	36	13	ND	21	7.7	
107-02-8	Acrolein	ND	140	12	ND	62	5.3	
67-64-1	Acetone	**160**	360	55	**69**	150	23	**J**
75-69-4	Trichlorofluoromethane	ND	36	12	ND	6.4	2.2	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	360	30	ND	150	12	
107-13-1	Acrylonitrile	ND	36	12	ND	16	5.6	
75-35-4	1,1-Dichloroethene	**410**	36	12	**100**	9.0	3.1	
75-09-2	Methylene Chloride	ND	36	12	ND	10	3.5	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	36	11	ND	11	3.7	
76-13-1	Trichlorotrifluoroethane	**40**	36	12	**5.3**	4.7	1.6	
75-15-0	Carbon Disulfide	ND	360	11	ND	110	3.4	
156-60-5	trans-1,2-Dichloroethene	ND	36	14	ND	9.0	3.4	
75-34-3	1,1-Dichloroethane	**14**	36	11	**3.4**	8.8	2.8	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	36	12	ND	9.9	3.4	
108-05-4	Vinyl Acetate	ND	360	46	ND	100	13	
78-93-3	2-Butanone (MEK)	**47**	360	15	**16**	120	5.1	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 1** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-011

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SS00070

Initial Pressure (psig): -0.43 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	36	11	ND	9.0	2.9	
141-78-6	Ethyl Acetate	ND	72	25	ND	20	6.9	
110-54-3	n-Hexane	ND	36	11	ND	10	3.0	
67-66-3	Chloroform	ND	36	12	ND	7.3	2.5	
109-99-9	Tetrahydrofuran (THF)	ND	36	14	ND	12	4.9	
107-06-2	1,2-Dichloroethane	ND	36	11	ND	8.8	2.8	
71-55-6	1,1,1-Trichloroethane	**110**	36	12	**19**	6.6	2.2	
71-43-2	Benzene	ND	36	11	ND	11	3.6	
56-23-5	Carbon Tetrachloride	ND	36	11	ND	5.7	1.7	
110-82-7	Cyclohexane	ND	72	21	ND	21	6.0	
78-87-5	1,2-Dichloropropane	ND	36	11	ND	7.7	2.5	
75-27-4	Bromodichloromethane	ND	36	11	ND	5.3	1.6	
79-01-6	Trichloroethene	ND	36	10	ND	6.7	1.9	
123-91-1	1,4-Dioxane	**8,000**	48	15	**2,200**	13	4.2	**D**
80-62-6	Methyl Methacrylate	ND	72	22	ND	17	5.4	
142-82-5	n-Heptane	ND	36	12	ND	8.7	3.0	
10061-01-5	cis-1,3-Dichloropropene	ND	36	10	ND	7.9	2.2	
108-10-1	4-Methyl-2-pentanone	ND	36	11	ND	8.7	2.8	
10061-02-6	trans-1,3-Dichloropropene	ND	36	11	ND	7.9	2.5	
79-00-5	1,1,2-Trichloroethane	ND	36	11	ND	6.6	2.1	
108-88-3	Toluene	ND	36	12	ND	9.5	3.2	
591-78-6	2-Hexanone	**25**	36	11	**6.0**	8.7	2.8	**J**
124-48-1	Dibromochloromethane	ND	36	11	ND	4.2	1.3	
106-93-4	1,2-Dibromoethane	ND	36	11	ND	4.7	1.5	
123-86-4	n-Butyl Acetate	ND	36	11	ND	7.5	2.4	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 1** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-011

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes: 0.015 Liter(s)
Container ID: 1SS00070

Initial Pressure (psig): -0.43 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**30**	36	13	**6.4**	7.7	2.8	**J**
127-18-4	Tetrachloroethene	ND	36	10	ND	5.3	1.5	
108-90-7	Chlorobenzene	ND	36	11	ND	7.8	2.5	
100-41-4	Ethylbenzene	ND	36	11	ND	8.2	2.6	
179601-23-1	m,p-Xylenes	ND	72	21	ND	16	4.9	
75-25-2	Bromoform	ND	36	11	ND	3.5	1.0	
100-42-5	Styrene	ND	36	11	ND	8.4	2.5	
95-47-6	o-Xylene	ND	36	11	ND	8.2	2.5	
111-84-2	n-Nonane	ND	36	11	ND	6.8	2.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	36	11	ND	5.2	1.6	
98-82-8	Cumene	ND	36	11	ND	7.3	2.2	
80-56-8	alpha-Pinene	ND	36	10	ND	6.4	1.8	
103-65-1	n-Propylbenzene	ND	36	11	ND	7.3	2.3	
622-96-8	4-Ethyltoluene	ND	36	11	ND	7.3	2.3	
108-67-8	1,3,5-Trimethylbenzene	ND	36	11	ND	7.3	2.3	
95-63-6	1,2,4-Trimethylbenzene	ND	36	11	ND	7.3	2.2	
100-44-7	Benzyl Chloride	ND	36	7.9	ND	6.9	1.5	
541-73-1	1,3-Dichlorobenzene	ND	36	11	ND	5.9	1.8	
106-46-7	1,4-Dichlorobenzene	ND	36	10	ND	5.9	1.7	
95-50-1	1,2-Dichlorobenzene	ND	36	11	ND	5.9	1.8	
5989-27-5	d-Limonene	ND	36	10	ND	6.4	1.8	
96-12-8	1,2-Dibromo-3-chloropropane	ND	36	7.1	ND	3.7	0.73	
120-82-1	1,2,4-Trichlorobenzene	ND	36	11	ND	4.8	1.5	
91-20-3	Naphthalene	ND	36	13	ND	6.8	2.5	
87-68-3	Hexachlorobutadiene	ND	36	10	ND	3.4	0.94	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 2** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-012

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:
Container ID: 1SS00025

Initial Pressure (psig): -0.36 Final Pressure (psig): 6.44

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.6**	7.4	2.1	**4.4**	4.3	1.2	
75-71-8	Dichlorodifluoromethane (CFC 12)	**3.2**	7.4	2.5	**0.64**	1.5	0.51	**J**
74-87-3	Chloromethane	**2.5**	7.4	2.2	**1.2**	3.6	1.1	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.4	2.8	ND	1.1	0.40	
75-01-4	Vinyl Chloride	ND	7.4	2.5	ND	2.9	0.98	
106-99-0	1,3-Butadiene	ND	7.4	3.2	ND	3.3	1.5	
74-83-9	Bromomethane	ND	7.4	2.8	ND	1.9	0.72	
75-00-3	Chloroethane	**2.8**	7.4	2.5	**1.1**	2.8	0.95	**J**
64-17-5	Ethanol	**67**	74	12	**36**	39	6.2	**J**
75-05-8	Acetonitrile	ND	7.4	2.6	ND	4.4	1.6	
107-02-8	Acrolein	**5.4**	29	2.5	**2.4**	13	1.1	**J**
67-64-1	Acetone	**180**	74	11	**76**	31	4.8	
75-69-4	Trichlorofluoromethane	**7.8**	7.4	2.5	**1.4**	1.3	0.44	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	74	6.2	ND	30	2.5	
107-13-1	Acrylonitrile	ND	7.4	2.5	ND	3.4	1.2	
75-35-4	1,1-Dichloroethene	**1,300**	7.4	2.5	**320**	1.9	0.63	
75-09-2	Methylene Chloride	**4.1**	7.4	2.5	**1.2**	2.1	0.72	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.4	2.4	ND	2.3	0.75	
76-13-1	Trichlorotrifluoroethane	ND	7.4	2.5	ND	0.96	0.33	
75-15-0	Carbon Disulfide	ND	74	2.2	ND	24	0.71	
156-60-5	trans-1,2-Dichloroethene	ND	7.4	2.8	ND	1.9	0.70	
75-34-3	1,1-Dichloroethane	ND	7.4	2.4	ND	1.8	0.58	
1634-04-4	Methyl tert-Butyl Ether	ND	7.4	2.5	ND	2.0	0.69	
108-05-4	Vinyl Acetate	ND	74	9.6	ND	21	2.7	
78-93-3	2-Butanone (MEK)	**77**	74	3.1	**26**	25	1.0	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 2** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-012

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:
Container ID: 1SS00025

Initial Pressure (psig): -0.36 Final Pressure (psig): 6.44

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	7.4	2.4	ND	1.9	0.59	
141-78-6	Ethyl Acetate	**11**	15	5.1	**3.0**	4.1	1.4	**J**
110-54-3	n-Hexane	**2.6**	7.4	2.2	**0.73**	2.1	0.63	**J**
67-66-3	Chloroform	**4.3**	7.4	2.5	**0.88**	1.5	0.51	**J**
109-99-9	Tetrahydrofuran (THF)	ND	7.4	2.9	ND	2.5	1.0	
107-06-2	1,2-Dichloroethane	ND	7.4	2.4	ND	1.8	0.58	
71-55-6	1,1,1-Trichloroethane	ND	7.4	2.5	ND	1.3	0.46	
71-43-2	Benzene	ND	7.4	2.4	ND	2.3	0.74	
56-23-5	Carbon Tetrachloride	ND	7.4	2.2	ND	1.2	0.35	
110-82-7	Cyclohexane	ND	15	4.3	ND	4.3	1.2	
78-87-5	1,2-Dichloropropane	ND	7.4	2.4	ND	1.6	0.51	
75-27-4	Bromodichloromethane	ND	7.4	2.2	ND	1.1	0.33	
79-01-6	Trichloroethene	ND	7.4	2.1	ND	1.4	0.38	
123-91-1	1,4-Dioxane	**63**	7.4	2.4	**17**	2.0	0.65	
80-62-6	Methyl Methacrylate	**23**	15	4.6	**5.6**	3.6	1.1	
142-82-5	n-Heptane	**13**	7.4	2.5	**3.2**	1.8	0.61	
10061-01-5	cis-1,3-Dichloropropene	ND	7.4	2.1	ND	1.6	0.45	
108-10-1	4-Methyl-2-pentanone	ND	7.4	2.4	ND	1.8	0.57	
10061-02-6	trans-1,3-Dichloropropene	ND	7.4	2.4	ND	1.6	0.52	
79-00-5	1,1,2-Trichloroethane	ND	7.4	2.4	ND	1.3	0.43	
108-88-3	Toluene	**5.8**	7.4	2.5	**1.5**	2.0	0.66	**J**
591-78-6	2-Hexanone	**48**	7.4	2.4	**12**	1.8	0.57	
124-48-1	Dibromochloromethane	ND	7.4	2.4	ND	0.86	0.28	
106-93-4	1,2-Dibromoethane	ND	7.4	2.4	ND	0.96	0.31	
123-86-4	n-Butyl Acetate	**6.1**	7.4	2.4	**1.3**	1.5	0.50	**J**

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

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Post Carbon 2** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-012

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:
Container ID: 1SS00025

Initial Pressure (psig): -0.36 Final Pressure (psig): 6.44

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**39**	7.4	2.6	**8.4**	1.6	0.57	
127-18-4	Tetrachloroethene	ND	7.4	2.1	ND	1.1	0.30	
108-90-7	Chlorobenzene	ND	7.4	2.4	ND	1.6	0.51	
100-41-4	Ethylbenzene	**3.9**	7.4	2.4	**0.90**	1.7	0.54	**J**
179601-23-1	m,p-Xylenes	**12**	15	4.4	**2.8**	3.4	1.0	**J**
75-25-2	Bromoform	ND	7.4	2.2	ND	0.71	0.21	
100-42-5	Styrene	ND	7.4	2.2	ND	1.7	0.52	
95-47-6	o-Xylene	**4.5**	7.4	2.2	**1.0**	1.7	0.51	**J**
111-84-2	n-Nonane	**7.1**	7.4	2.2	**1.4**	1.4	0.42	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	2.2	ND	1.1	0.32	
98-82-8	Cumene	ND	7.4	2.2	ND	1.5	0.45	
80-56-8	alpha-Pinene	ND	7.4	2.1	ND	1.3	0.37	
103-65-1	n-Propylbenzene	ND	7.4	2.4	ND	1.5	0.48	
622-96-8	4-Ethyltoluene	ND	7.4	2.4	ND	1.5	0.48	
108-67-8	1,3,5-Trimethylbenzene	ND	7.4	2.4	ND	1.5	0.48	
95-63-6	1,2,4-Trimethylbenzene	**2.8**	7.4	2.2	**0.57**	1.5	0.45	**J**
100-44-7	Benzyl Chloride	ND	7.4	1.6	ND	1.4	0.31	
541-73-1	1,3-Dichlorobenzene	ND	7.4	2.2	ND	1.2	0.37	
106-46-7	1,4-Dichlorobenzene	**5.4**	7.4	2.1	**0.90**	1.2	0.34	**J**
95-50-1	1,2-Dichlorobenzene	ND	7.4	2.2	ND	1.2	0.37	
5989-27-5	d-Limonene	ND	7.4	2.1	ND	1.3	0.37	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.4	1.5	ND	0.76	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	7.4	2.4	ND	0.99	0.32	
91-20-3	Naphthalene	ND	7.4	2.6	ND	1.4	0.50	
87-68-3	Hexachlorobutadiene	ND	7.4	2.1	ND	0.69	0.19	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Project ID: P1502627

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 6/24/15
Analyst: Evelyn Alvarez Date(s) Received: 6/30/15
Sample Type: 1.0 L Silonite Summa Canister(s) Date(s) Analyzed: 7/9 - 7/11/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150709-MB	**88**	**106**	**111**	70-130	
Method Blank	P150710-MB	**86**	**106**	**113**	70-130	
Method Blank	P150711-MB	**87**	**106**	**114**	70-130	
Lab Control Sample	P150709-LCS	**86**	**105**	**113**	70-130	
Lab Control Sample	P150710-LCS	**84**	**105**	**116**	70-130	
Lab Control Sample	P150711-LCS	**85**	**104**	**114**	70-130	
SVE-OBS-01	P1502627-001	**84**	**104**	**114**	70-130	
SVE-OBS-02	P1502627-002	**84**	**105**	**115**	70-130	
SVE-OBS-03	P1502627-003	**85**	**105**	**116**	70-130	
SVE-OBS-04	P1502627-004	**85**	**104**	**116**	70-130	
SVE-OBS-05	P1502627-005	**86**	**106**	**114**	70-130	
SVE-OBS-06	P1502627-006	**86**	**104**	**114**	70-130	
SVE-OBS-07	P1502627-007	**87**	**102**	**113**	70-130	
SVE-OBS-08	P1502627-008	**87**	**103**	**113**	70-130	
SVE-OBS-09	P1502627-009	**87**	**103**	**114**	70-130	
SVE Exhaust	P1502627-010	**85**	**105**	**115**	70-130	
SVE Exhaust	P1502627-010DUP	**85**	**104**	**115**	70-130	
Post Carbon 1	P1502627-011	**87**	**104**	**116**	70-130	
Post Carbon 2	P1502627-012	**87**	**103**	**115**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**175**	**88**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**179**	**88**	66-117	
74-87-3	Chloromethane	198	**169**	**85**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**203**	**99**	65-117	
75-01-4	Vinyl Chloride	202	**182**	**90**	61-127	
106-99-0	1,3-Butadiene	214	**191**	**89**	65-132	
74-83-9	Bromomethane	202	**204**	**101**	62-114	
75-00-3	Chloroethane	202	**198**	**98**	64-122	
64-17-5	Ethanol	1,020	**910**	**89**	57-131	
75-05-8	Acetonitrile	204	**179**	**88**	52-135	
107-02-8	Acrolein	214	**226**	**106**	64-124	
67-64-1	Acetone	1,080	**916**	**85**	60-113	
75-69-4	Trichlorofluoromethane	198	**199**	**101**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**374**	**89**	62-129	
107-13-1	Acrylonitrile	208	**207**	**100**	69-133	
75-35-4	1,1-Dichloroethene	214	**210**	**98**	70-114	
75-09-2	Methylene Chloride	216	**197**	**91**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**191**	**88**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**217**	**100**	69-116	
75-15-0	Carbon Disulfide	196	**192**	**98**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**198**	**93**	69-123	
75-34-3	1,1-Dichloroethane	208	**190**	**91**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**201**	**95**	57-125	
108-05-4	Vinyl Acetate	1,020	**1080**	**106**	69-131	
78-93-3	2-Butanone (MEK)	216	**200**	**93**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**192**	**90**	69-119	
141-78-6	Ethyl Acetate	428	**417**	**97**	65-129	
110-54-3	n-Hexane	210	**184**	**88**	55-116	
67-66-3	Chloroform	216	**193**	**89**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**189**	**92**	69-120	
107-06-2	1,2-Dichloroethane	210	**176**	**84**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**190**	**91**	74-116	
71-43-2	Benzene	220	**196**	**89**	61-109	
56-23-5	Carbon Tetrachloride	214	**224**	**105**	76-120	
110-82-7	Cyclohexane	422	**404**	**96**	72-115	
78-87-5	1,2-Dichloropropane	212	**199**	**94**	67-119	
75-27-4	Bromodichloromethane	216	**205**	**95**	78-124	
79-01-6	Trichloroethene	208	**214**	**103**	69-115	
123-91-1	1,4-Dioxane	218	**205**	**94**	69-127	
80-62-6	Methyl Methacrylate	420	**437**	**104**	76-128	
142-82-5	n-Heptane	214	**201**	**94**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**229**	**101**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**206**	**94**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**221**	**102**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**207**	**98**	75-119	
108-88-3	Toluene	212	**214**	**101**	68-114	
591-78-6	2-Hexanone	222	**215**	**97**	60-136	
124-48-1	Dibromochloromethane	220	**249**	**113**	75-132	
106-93-4	1,2-Dibromoethane	216	**238**	**110**	72-122	
123-86-4	n-Butyl Acetate	224	**233**	**104**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**206**	**99**	66-120	
127-18-4	Tetrachloroethene	198	**222**	**112**	67-120	
108-90-7	Chlorobenzene	216	**230**	**106**	69-114	
100-41-4	Ethylbenzene	212	**221**	**104**	71-117	
179601-23-1	m,p-Xylenes	420	**433**	**103**	71-118	
75-25-2	Bromoform	216	**288**	**133**	76-149	
100-42-5	Styrene	218	**247**	**113**	71-128	
95-47-6	o-Xylene	206	**213**	**103**	72-118	
111-84-2	n-Nonane	204	**201**	**99**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**224**	**111**	73-124	
98-82-8	Cumene	204	**219**	**107**	71-118	
80-56-8	alpha-Pinene	208	**224**	**108**	71-123	
103-65-1	n-Propylbenzene	202	**216**	**107**	71-120	
622-96-8	4-Ethyltoluene	212	**237**	**112**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**226**	**107**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**239**	**114**	71-122	
100-44-7	Benzyl Chloride	218	**262**	**120**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**265**	**122**	67-121	**L**
106-46-7	1,4-Dichlorobenzene	212	**246**	**116**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**263**	**123**	68-121	**L**
5989-27-5	d-Limonene	210	**238**	**113**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**266**	**129**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**262**	**125**	60-135	
91-20-3	Naphthalene	196	**275**	**140**	63-142	
87-68-3	Hexachlorobutadiene	214	**276**	**129**	65-127	**L**

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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**166**	**83**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**172**	**84**	66-117	
74-87-3	Chloromethane	198	**166**	**84**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**199**	**97**	65-117	
75-01-4	Vinyl Chloride	202	**176**	**87**	61-127	
106-99-0	1,3-Butadiene	214	**184**	**86**	65-132	
74-83-9	Bromomethane	202	**198**	**98**	62-114	
75-00-3	Chloroethane	202	**191**	**95**	64-122	
64-17-5	Ethanol	1,020	**867**	**85**	57-131	
75-05-8	Acetonitrile	204	**170**	**83**	52-135	
107-02-8	Acrolein	214	**217**	**101**	64-124	
67-64-1	Acetone	1,080	**877**	**81**	60-113	
75-69-4	Trichlorofluoromethane	198	**191**	**96**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**357**	**85**	62-129	
107-13-1	Acrylonitrile	208	**198**	**95**	69-133	
75-35-4	1,1-Dichloroethene	214	**204**	**95**	70-114	
75-09-2	Methylene Chloride	216	**190**	**88**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**183**	**84**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**212**	**98**	69-116	
75-15-0	Carbon Disulfide	196	**186**	**95**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**190**	**90**	69-123	
75-34-3	1,1-Dichloroethane	208	**182**	**88**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**193**	**91**	57-125	
108-05-4	Vinyl Acetate	1,020	**1050**	**103**	69-131	
78-93-3	2-Butanone (MEK)	216	**193**	**89**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**184**	**86**	69-119	
141-78-6	Ethyl Acetate	428	**401**	**94**	65-129	
110-54-3	n-Hexane	210	**177**	**84**	55-116	
67-66-3	Chloroform	216	**186**	**86**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**182**	**88**	69-120	
107-06-2	1,2-Dichloroethane	210	**168**	**80**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**185**	**89**	74-116	
71-43-2	Benzene	220	**190**	**86**	61-109	
56-23-5	Carbon Tetrachloride	214	**218**	**102**	76-120	
110-82-7	Cyclohexane	422	**393**	**93**	72-115	
78-87-5	1,2-Dichloropropane	212	**192**	**91**	67-119	
75-27-4	Bromodichloromethane	216	**198**	**92**	78-124	
79-01-6	Trichloroethene	208	**209**	**100**	69-115	
123-91-1	1,4-Dioxane	218	**199**	**91**	69-127	
80-62-6	Methyl Methacrylate	420	**429**	**102**	76-128	
142-82-5	n-Heptane	214	**195**	**91**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**220**	**97**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**198**	**91**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**214**	**99**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**203**	**96**	75-119	
108-88-3	Toluene	212	**209**	**99**	68-114	
591-78-6	2-Hexanone	222	**206**	**93**	60-136	
124-48-1	Dibromochloromethane	220	**244**	**111**	75-132	
106-93-4	1,2-Dibromoethane	216	**232**	**107**	72-122	
123-86-4	n-Butyl Acetate	224	**223**	**100**	60-137	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
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ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150710-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/10/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**198**	**95**	66-120	
127-18-4	Tetrachloroethene	198	**221**	**112**	67-120	
108-90-7	Chlorobenzene	216	**226**	**105**	69-114	
100-41-4	Ethylbenzene	212	**216**	**102**	71-117	
179601-23-1	m,p-Xylenes	420	**423**	**101**	71-118	
75-25-2	Bromoform	216	**287**	**133**	76-149	
100-42-5	Styrene	218	**244**	**112**	71-128	
95-47-6	o-Xylene	206	**209**	**101**	72-118	
111-84-2	n-Nonane	204	**193**	**95**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**219**	**108**	73-124	
98-82-8	Cumene	204	**215**	**105**	71-118	
80-56-8	alpha-Pinene	208	**218**	**105**	71-123	
103-65-1	n-Propylbenzene	202	**211**	**104**	71-120	
622-96-8	4-Ethyltoluene	212	**230**	**108**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**222**	**105**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**235**	**112**	71-122	
100-44-7	Benzyl Chloride	218	**254**	**117**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**260**	**119**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**245**	**116**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**260**	**121**	68-121	
5989-27-5	d-Limonene	210	**230**	**110**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**267**	**130**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**261**	**124**	60-135	
91-20-3	Naphthalene	196	**272**	**139**	63-142	
87-68-3	Hexachlorobutadiene	214	**276**	**129**	65-127	**L**

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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**170**	**85**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**171**	**84**	66-117	
74-87-3	Chloromethane	198	**167**	**84**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**197**	**96**	65-117	
75-01-4	Vinyl Chloride	202	**176**	**87**	61-127	
106-99-0	1,3-Butadiene	214	**186**	**87**	65-132	
74-83-9	Bromomethane	202	**196**	**97**	62-114	
75-00-3	Chloroethane	202	**191**	**95**	64-122	
64-17-5	Ethanol	1,020	**874**	**86**	57-131	
75-05-8	Acetonitrile	204	**173**	**85**	52-135	
107-02-8	Acrolein	214	**218**	**102**	64-124	
67-64-1	Acetone	1,080	**877**	**81**	60-113	
75-69-4	Trichlorofluoromethane	198	**192**	**97**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**356**	**85**	62-129	
107-13-1	Acrylonitrile	208	**199**	**96**	69-133	
75-35-4	1,1-Dichloroethene	214	**202**	**94**	70-114	
75-09-2	Methylene Chloride	216	**189**	**88**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**185**	**85**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**209**	**97**	69-116	
75-15-0	Carbon Disulfide	196	**185**	**94**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**191**	**90**	69-123	
75-34-3	1,1-Dichloroethane	208	**184**	**88**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**193**	**91**	57-125	
108-05-4	Vinyl Acetate	1,020	**1030**	**101**	69-131	
78-93-3	2-Butanone (MEK)	216	**193**	**89**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**185**	**86**	69-119	
141-78-6	Ethyl Acetate	428	**398**	**93**	65-129	
110-54-3	n-Hexane	210	**176**	**84**	55-116	
67-66-3	Chloroform	216	**185**	**86**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**182**	**88**	69-120	
107-06-2	1,2-Dichloroethane	210	**168**	**80**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**183**	**88**	74-116	
71-43-2	Benzene	220	**188**	**85**	61-109	
56-23-5	Carbon Tetrachloride	214	**217**	**101**	76-120	
110-82-7	Cyclohexane	422	**389**	**92**	72-115	
78-87-5	1,2-Dichloropropane	212	**191**	**90**	67-119	
75-27-4	Bromodichloromethane	216	**197**	**91**	78-124	
79-01-6	Trichloroethene	208	**206**	**99**	69-115	
123-91-1	1,4-Dioxane	218	**198**	**91**	69-127	
80-62-6	Methyl Methacrylate	420	**422**	**100**	76-128	
142-82-5	n-Heptane	214	**193**	**90**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**219**	**97**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**196**	**90**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**212**	**98**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**200**	**94**	75-119	
108-88-3	Toluene	212	**206**	**97**	68-114	
591-78-6	2-Hexanone	222	**206**	**93**	60-136	
124-48-1	Dibromochloromethane	220	**241**	**110**	75-132	
106-93-4	1,2-Dibromoethane	216	**230**	**106**	72-122	
123-86-4	n-Butyl Acetate	224	**224**	**100**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P150711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**197**	**95**	66-120	
127-18-4	Tetrachloroethene	198	**216**	**109**	67-120	
108-90-7	Chlorobenzene	216	**223**	**103**	69-114	
100-41-4	Ethylbenzene	212	**213**	**100**	71-117	
179601-23-1	m,p-Xylenes	420	**417**	**99**	71-118	
75-25-2	Bromoform	216	**280**	**130**	76-149	
100-42-5	Styrene	218	**239**	**110**	71-128	
95-47-6	o-Xylene	206	**206**	**100**	72-118	
111-84-2	n-Nonane	204	**193**	**95**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**216**	**107**	73-124	
98-82-8	Cumene	204	**212**	**104**	71-118	
80-56-8	alpha-Pinene	208	**215**	**103**	71-123	
103-65-1	n-Propylbenzene	202	**208**	**103**	71-120	
622-96-8	4-Ethyltoluene	212	**226**	**107**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**219**	**103**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**230**	**110**	71-122	
100-44-7	Benzyl Chloride	218	**251**	**115**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**255**	**117**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**240**	**113**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**255**	**119**	68-121	
5989-27-5	d-Limonene	210	**228**	**109**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**260**	**126**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**255**	**121**	60-135	
91-20-3	Naphthalene	196	**266**	**136**	63-142	
87-68-3	Hexachlorobutadiene	214	**270**	**126**	65-127	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010DUP

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result** ppbV	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
Propene	ND	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	ND	-	-	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
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	ND	ND	ND	ND	-	-	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	140	59.0	131	55.2	135.5	**7**	25	**J**
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	311	78.4	299	75.4	305	**4**	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	22.1	2.88	20.7	2.70	21.4	**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)	17.7	5.99	16.1	5.46	16.9	**9**	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010DUP

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	83.7	15.3	82.2	15.1	82.95	**2**	25	
Benzene	ND	ND	ND	ND	-	-	25	
Carbon Tetrachloride	ND	ND	ND	ND	-	-	25	
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	5,890	1,630	5,670	1,570	5780	**4**	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	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	24.8	6.58	23.2	6.15	24	**7**	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **SVE Exhaust** ALS Project ID: P1502627
Client Project ID: **SVE Performance Monitoring / KUH0-15-010** ALS Sample ID: P1502627-010DUP

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/11/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes:
Container ID: 1SS00014

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.47

Canister Dilution Factor: 1.37

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	26.9	3.97	24.2	3.58	25.55	**11**	25	**J**
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	36.8	8.47	35.0	8.06	35.9	**5**	25	**J**
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	13.6	3.12	12.9	2.97	13.25	**5**	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	ND	ND	ND	ND	-	-	25	
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	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	45.8	7.61	43.8	7.29	44.8	**4**	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	ND	ND	ND	ND	-	-	25	
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.

Appendix C

Ambient Air Sampling Laboratory

Analytical Results

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

January 31, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In Plant Monitoring / KUHO-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on January 28, 2015. For your reference, these analyses have been assigned our service request number P1500331.

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

Samantha Henningsen

By Samantha Henningsen at 11:56 am, Jan 31, 2015

For Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1500331
Project: SVE Monthly In Plant Monitoring / KUHO-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on January 28, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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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Simi Valley, CA 93065
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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1500331

Project ID: SVE Monthly In Plant Monitoring / KUHO-15-011

Date Received: 1/28/2015

Time Received: 09:58

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
Air Mon 01-12	P1500331-001	Air	1/26/2015	07:30	1SC00908	0.16	5.76	X
Air Mon 02-12	P1500331-002	Air	1/26/2015	07:23	1SC00130	-0.88	5.33	X

Air - Chain of Custody Record & Analytical Service Request

ALS
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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 1500331

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369, Hattiesburg, MS 39404

Project Name: SVE Monthly In Plant Monitoring

Project Number: KUHO-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHO-15-011 / Same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: SKilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore [signature]

ALS Contact:

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
Air Mon 01-12		1/26/15	7:30	ISC 00908	DAO 1507	30	2.1		✓		
Air Mon 02-12		1/26/15	7:23	ISC 00130	DAO 1467	29.5	2.8		✓		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	1/27/15	14:00	FED EX		
FED EX			[signature]	1/28/15	0958

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1500331

Project: SVE Monthly In Plant Monitoring / KUHO-15-011

Sample(s) received on: 1/28/15 Date opened: 1/28/15 by: KKELPE

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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500331-001.01	1.0 L Source Can					
P1500331-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-001

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00908

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.7	0.48	ND	1.0	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.7	0.59	**0.40**	0.35	0.12	
74-87-3	Chloromethane	ND	1.7	0.52	ND	0.84	0.25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.66	ND	0.25	0.094	
75-01-4	Vinyl Chloride	ND	1.7	0.59	ND	0.68	0.23	
106-99-0	1,3-Butadiene	ND	1.7	0.76	ND	0.78	0.34	
74-83-9	Bromomethane	ND	1.7	0.66	ND	0.44	0.17	
75-00-3	Chloroethane	ND	1.7	0.59	ND	0.65	0.22	
64-17-5	Ethanol	**390**	17	2.8	**200**	9.2	1.5	
75-05-8	Acetonitrile	ND	1.7	0.62	ND	1.0	0.37	
107-02-8	Acrolein	**0.99**	6.9	0.59	**0.43**	3.0	0.26	**J**
67-64-1	Acetone	**270**	17	2.7	**120**	7.3	1.1	
75-69-4	Trichlorofluoromethane	**1.2**	1.7	0.59	**0.21**	0.31	0.10	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**11**	17	1.4	**4.6**	7.0	0.59	**J**
107-13-1	Acrylonitrile	ND	1.7	0.59	ND	0.80	0.27	
75-35-4	1,1-Dichloroethene	ND	1.7	0.59	ND	0.44	0.15	
75-09-2	Methylene Chloride	ND	1.7	0.59	ND	0.50	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.7	0.55	ND	0.55	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.7	0.59	ND	0.23	0.077	
75-15-0	Carbon Disulfide	ND	17	0.52	ND	5.5	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.66	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	ND	1.7	0.55	ND	0.43	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	0.59	ND	0.48	0.16	
108-05-4	Vinyl Acetate	ND	17	2.2	ND	4.9	0.64	
78-93-3	2-Butanone (MEK)	**23**	17	0.72	**8.0**	5.9	0.25	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-001

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00908

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.55	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**35**	3.5	1.2	**9.8**	0.96	0.34	
110-54-3	n-Hexane	**4.5**	1.7	0.52	**1.3**	0.49	0.15	
67-66-3	Chloroform	ND	1.7	0.59	ND	0.35	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.69	ND	0.59	0.23	
107-06-2	1,2-Dichloroethane	ND	1.7	0.55	ND	0.43	0.14	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.59	ND	0.32	0.11	
71-43-2	Benzene	**0.64**	1.7	0.55	**0.20**	0.54	0.17	**J**
56-23-5	Carbon Tetrachloride	ND	1.7	0.52	ND	0.27	0.082	
110-82-7	Cyclohexane	ND	3.5	1.0	ND	1.0	0.29	
78-87-5	1,2-Dichloropropane	ND	1.7	0.55	ND	0.37	0.12	
75-27-4	Bromodichloromethane	ND	1.7	0.52	ND	0.26	0.077	
79-01-6	Trichloroethene	ND	1.7	0.48	ND	0.32	0.090	
123-91-1	1,4-Dioxane	ND	1.7	0.55	ND	0.48	0.15	
80-62-6	Methyl Methacrylate	ND	3.5	1.1	ND	0.84	0.26	
142-82-5	n-Heptane	ND	1.7	0.59	ND	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**6.6**	1.7	0.55	**1.6**	0.42	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.55	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.55	ND	0.32	0.10	
108-88-3	Toluene	**48**	1.7	0.59	**13**	0.46	0.16	
591-78-6	2-Hexanone	ND	1.7	0.55	ND	0.42	0.13	
124-48-1	Dibromochloromethane	ND	1.7	0.55	ND	0.20	0.065	
106-93-4	1,2-Dibromoethane	ND	1.7	0.55	ND	0.22	0.072	
123-86-4	n-Butyl Acetate	**0.62**	1.7	0.55	**0.13**	0.36	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-001

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00908

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.76

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.62	ND	0.37	0.13	
127-18-4	Tetrachloroethene	ND	1.7	0.48	ND	0.25	0.071	
108-90-7	Chlorobenzene	ND	1.7	0.55	ND	0.37	0.12	
100-41-4	Ethylbenzene	**10**	1.7	0.55	**2.3**	0.40	0.13	
179601-23-1	m,p-Xylenes	**39**	3.5	1.0	**8.9**	0.79	0.24	
75-25-2	Bromoform	ND	1.7	0.52	ND	0.17	0.050	
100-42-5	Styrene	ND	1.7	0.52	ND	0.41	0.12	
95-47-6	o-Xylene	**13**	1.7	0.52	**2.9**	0.40	0.12	
111-84-2	n-Nonane	**0.63**	1.7	0.52	**0.12**	0.33	0.099	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.52	ND	0.25	0.075	
98-82-8	Cumene	ND	1.7	0.52	ND	0.35	0.11	
80-56-8	alpha-Pinene	**1.4**	1.7	0.48	**0.24**	0.31	0.087	**J**
103-65-1	n-Propylbenzene	**0.95**	1.7	0.55	**0.19**	0.35	0.11	**J**
622-96-8	4-Ethyltoluene	**1.7**	1.7	0.55	**0.35**	0.35	0.11	**J**
108-67-8	1,3,5-Trimethylbenzene	**1.5**	1.7	0.55	**0.31**	0.35	0.11	**J**
95-63-6	1,2,4-Trimethylbenzene	**2.5**	1.7	0.52	**0.51**	0.35	0.11	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.33	0.073	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.086	
106-46-7	1,4-Dichlorobenzene	**45**	1.7	0.48	**7.5**	0.29	0.080	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.52	ND	0.29	0.086	
5989-27-5	d-Limonene	**2.8**	1.7	0.48	**0.50**	0.31	0.087	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.55	ND	0.23	0.074	
91-20-3	Naphthalene	ND	1.7	0.62	ND	0.33	0.12	
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-002

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00130

Initial Pressure (psig): -0.88 Final Pressure (psig): 5.33

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.8	0.51	ND	1.1	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.8	0.62	**0.41**	0.37	0.12	
74-87-3	Chloromethane	**2.4**	1.8	0.54	**1.2**	0.88	0.26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.69	ND	0.26	0.099	
75-01-4	Vinyl Chloride	ND	1.8	0.62	ND	0.71	0.24	
106-99-0	1,3-Butadiene	ND	1.8	0.80	ND	0.82	0.36	
74-83-9	Bromomethane	ND	1.8	0.69	ND	0.47	0.18	
75-00-3	Chloroethane	ND	1.8	0.62	ND	0.69	0.23	
64-17-5	Ethanol	**210**	18	2.9	**110**	9.6	1.5	
75-05-8	Acetonitrile	ND	1.8	0.65	ND	1.1	0.39	
107-02-8	Acrolein	ND	7.3	0.62	ND	3.2	0.27	
67-64-1	Acetone	**500**	18	2.8	**210**	7.6	1.2	
75-69-4	Trichlorofluoromethane	**1.2**	1.8	0.62	**0.21**	0.32	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**10**	18	1.5	**4.2**	7.4	0.62	**J**
107-13-1	Acrylonitrile	ND	1.8	0.62	ND	0.84	0.28	
75-35-4	1,1-Dichloroethene	ND	1.8	0.62	ND	0.46	0.16	
75-09-2	Methylene Chloride	ND	1.8	0.62	ND	0.52	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.58	ND	0.58	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.8	0.62	ND	0.24	0.080	
75-15-0	Carbon Disulfide	**0.64**	18	0.54	**0.20**	5.8	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.69	ND	0.46	0.17	
75-34-3	1,1-Dichloroethane	ND	1.8	0.58	ND	0.45	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.62	ND	0.50	0.17	
108-05-4	Vinyl Acetate	ND	18	2.4	ND	5.1	0.67	
78-93-3	2-Butanone (MEK)	**35**	18	0.76	**12**	6.1	0.26	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-002

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00130

Initial Pressure (psig): -0.88 Final Pressure (psig): 5.33

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.8	0.58	ND	0.46	0.15	
141-78-6	Ethyl Acetate	**55**	3.6	1.3	**15**	1.0	0.35	
110-54-3	n-Hexane	**2.9**	1.8	0.54	**0.83**	0.51	0.15	
67-66-3	Chloroform	ND	1.8	0.62	ND	0.37	0.13	
109-99-9	Tetrahydrofuran (THF)	**1.9**	1.8	0.73	**0.64**	0.61	0.25	
107-06-2	1,2-Dichloroethane	ND	1.8	0.58	ND	0.45	0.14	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.62	ND	0.33	0.11	
71-43-2	Benzene	**0.66**	1.8	0.58	**0.21**	0.57	0.18	**J**
56-23-5	Carbon Tetrachloride	ND	1.8	0.54	ND	0.29	0.086	
110-82-7	Cyclohexane	ND	3.6	1.1	ND	1.1	0.31	
78-87-5	1,2-Dichloropropane	ND	1.8	0.58	ND	0.39	0.13	
75-27-4	Bromodichloromethane	ND	1.8	0.54	ND	0.27	0.081	
79-01-6	Trichloroethene	ND	1.8	0.51	ND	0.34	0.094	
123-91-1	1,4-Dioxane	ND	1.8	0.58	ND	0.50	0.16	
80-62-6	Methyl Methacrylate	ND	3.6	1.1	ND	0.89	0.27	
142-82-5	n-Heptane	**0.80**	1.8	0.62	**0.20**	0.44	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.51	ND	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	**6.6**	1.8	0.58	**1.6**	0.44	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.58	ND	0.40	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.58	ND	0.33	0.11	
108-88-3	Toluene	**24**	1.8	0.62	**6.4**	0.48	0.16	
591-78-6	2-Hexanone	ND	1.8	0.58	ND	0.44	0.14	
124-48-1	Dibromochloromethane	ND	1.8	0.58	ND	0.21	0.068	
106-93-4	1,2-Dibromoethane	ND	1.8	0.58	ND	0.24	0.076	
123-86-4	n-Butyl Acetate	**1.3**	1.8	0.58	**0.28**	0.38	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-12** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P1500331-002

Test Code: EPA TO-15 Date Collected: 1/26/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/28/15
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00130

Initial Pressure (psig): -0.88 Final Pressure (psig): 5.33

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.1**	1.8	0.65	**0.45**	0.39	0.14	
127-18-4	Tetrachloroethene	ND	1.8	0.51	ND	0.27	0.075	
108-90-7	Chlorobenzene	ND	1.8	0.58	ND	0.39	0.13	
100-41-4	Ethylbenzene	**14**	1.8	0.58	**3.2**	0.42	0.13	
179601-23-1	m,p-Xylenes	**59**	3.6	1.1	**14**	0.83	0.25	
75-25-2	Bromoform	ND	1.8	0.54	ND	0.18	0.053	
100-42-5	Styrene	ND	1.8	0.54	ND	0.43	0.13	
95-47-6	o-Xylene	**19**	1.8	0.54	**4.5**	0.42	0.13	
111-84-2	n-Nonane	**1.3**	1.8	0.54	**0.25**	0.35	0.10	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.54	ND	0.26	0.079	
98-82-8	Cumene	**0.63**	1.8	0.54	**0.13**	0.37	0.11	**J**
80-56-8	alpha-Pinene	**1.9**	1.8	0.51	**0.34**	0.33	0.091	
103-65-1	n-Propylbenzene	**1.5**	1.8	0.58	**0.31**	0.37	0.12	**J**
622-96-8	4-Ethyltoluene	**2.8**	1.8	0.58	**0.56**	0.37	0.12	
108-67-8	1,3,5-Trimethylbenzene	**2.6**	1.8	0.58	**0.52**	0.37	0.12	
95-63-6	1,2,4-Trimethylbenzene	**6.0**	1.8	0.54	**1.2**	0.37	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.40	ND	0.35	0.077	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.54	ND	0.30	0.090	
106-46-7	1,4-Dichlorobenzene	**12**	1.8	0.51	**2.0**	0.30	0.084	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.54	ND	0.30	0.090	
5989-27-5	d-Limonene	**1.3**	1.8	0.51	**0.24**	0.33	0.091	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.36	ND	0.19	0.037	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.58	ND	0.24	0.078	
91-20-3	Naphthalene	ND	1.8	0.65	ND	0.35	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.51	ND	0.17	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Project ID: P1500331

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 1/26/15
Analyst: Simon Cao Date(s) Received: 1/28/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 1/29/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150129-MB	**100**	**98**	**104**	70-130	
Lab Control Sample	P150129-LCS	**98**	**97**	**105**	70-130	
Air Mon 01-12	P1500331-001	**99**	**95**	**103**	70-130	
Air Mon 02-12	P1500331-002	**99**	**97**	**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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**182**	**91**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**188**	**92**	66-117	
74-87-3	Chloromethane	198	**182**	**92**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**199**	**97**	65-117	
75-01-4	Vinyl Chloride	202	**198**	**98**	61-127	
106-99-0	1,3-Butadiene	214	**229**	**107**	65-132	
74-83-9	Bromomethane	202	**196**	**97**	62-114	
75-00-3	Chloroethane	202	**192**	**95**	64-122	
64-17-5	Ethanol	1,020	**941**	**92**	57-131	
75-05-8	Acetonitrile	204	**198**	**97**	52-135	
107-02-8	Acrolein	214	**230**	**107**	64-124	
67-64-1	Acetone	1,080	**978**	**91**	60-113	
75-69-4	Trichlorofluoromethane	198	**203**	**103**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**418**	**100**	62-129	
107-13-1	Acrylonitrile	208	**221**	**106**	69-133	
75-35-4	1,1-Dichloroethene	214	**205**	**96**	70-114	
75-09-2	Methylene Chloride	216	**191**	**88**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**208**	**95**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**189**	**88**	69-116	
75-15-0	Carbon Disulfide	196	**215**	**110**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**210**	**99**	69-123	
75-34-3	1,1-Dichloroethane	208	**198**	**95**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**197**	**93**	57-125	
108-05-4	Vinyl Acetate	1,020	**1110**	**109**	69-131	
78-93-3	2-Butanone (MEK)	216	**220**	**102**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**192**	**90**	69-119	
141-78-6	Ethyl Acetate	428	**425**	**99**	65-129	
110-54-3	n-Hexane	210	**200**	**95**	55-116	
67-66-3	Chloroform	216	**203**	**94**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**194**	**94**	69-120	
107-06-2	1,2-Dichloroethane	210	**197**	**94**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**196**	**94**	74-116	
71-43-2	Benzene	220	**189**	**86**	61-109	
56-23-5	Carbon Tetrachloride	214	**215**	**100**	76-120	
110-82-7	Cyclohexane	422	**401**	**95**	72-115	
78-87-5	1,2-Dichloropropane	212	**201**	**95**	67-119	
75-27-4	Bromodichloromethane	216	**209**	**97**	78-124	
79-01-6	Trichloroethene	208	**199**	**96**	69-115	
123-91-1	1,4-Dioxane	218	**213**	**98**	69-127	
80-62-6	Methyl Methacrylate	420	**446**	**106**	76-128	
142-82-5	n-Heptane	214	**206**	**96**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**234**	**104**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**229**	**105**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**235**	**109**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**207**	**98**	75-119	
108-88-3	Toluene	212	**195**	**92**	68-114	
591-78-6	2-Hexanone	222	**220**	**99**	60-136	
124-48-1	Dibromochloromethane	220	**213**	**97**	75-132	
106-93-4	1,2-Dibromoethane	216	**208**	**96**	72-122	
123-86-4	n-Butyl Acetate	224	**229**	**102**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500331
Client Project ID: **SVE Monthly In Plant Monitoring / KUHO-15-011** ALS Sample ID: P150129-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/29/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**197**	**95**	66-120	
127-18-4	Tetrachloroethene	198	**183**	**92**	67-120	
108-90-7	Chlorobenzene	216	**200**	**93**	69-114	
100-41-4	Ethylbenzene	212	**199**	**94**	71-117	
179601-23-1	m,p-Xylenes	420	**393**	**94**	71-118	
75-25-2	Bromoform	216	**233**	**108**	76-149	
100-42-5	Styrene	218	**208**	**95**	71-128	
95-47-6	o-Xylene	206	**193**	**94**	72-118	
111-84-2	n-Nonane	204	**190**	**93**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**199**	**99**	73-124	
98-82-8	Cumene	204	**189**	**93**	71-118	
80-56-8	alpha-Pinene	208	**197**	**95**	71-123	
103-65-1	n-Propylbenzene	202	**190**	**94**	71-120	
622-96-8	4-Ethyltoluene	212	**205**	**97**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**194**	**92**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**200**	**95**	71-122	
100-44-7	Benzyl Chloride	218	**240**	**110**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**205**	**94**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**189**	**89**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**198**	**93**	68-121	
5989-27-5	d-Limonene	210	**207**	**99**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**217**	**105**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**188**	**90**	60-135	
91-20-3	Naphthalene	196	**188**	**96**	63-142	
87-68-3	Hexachlorobutadiene	214	**190**	**89**	65-127	

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.

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LABORATORY REPORT

February 27, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In-Plant Monitoring / KUH0-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on February 19, 2015. For your reference, these analyses have been assigned our service request number P1500678.

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 1:57 pm, Feb 27, 2015

Sue Anderson
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1500678
Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on February 19, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1500678

Project ID: SVE Monthly In-Plant Monitoring / KUH0-15-011

Date Received: 2/19/2015

Time Received: 09:30

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
Air Mon 01-13	P1500678-001	Air	2/17/2015	07:30	1SC00547	-0.93	5.66	X
Air Mon 02-13	P1500678-002	Air	2/17/2015	07:20	1SC00789	-1.09	5.97	X

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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. R1500678

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg MS 39404

Project Name: SVE Monthly In-Plant Monitoring

Project Number: KUHD-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHD-15-011 | same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: SKilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

ALS Contact:

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
AirMon 01-13	1	2/17/15	7:30	ISC00547	OAD1442	27	2		X		
AirMon 02-13	2	2/17/15	7:20	ISC00789	OAD1366	29	2		X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	2-18-15	16:00	[illegible]		
[illegible]			[illegible]	2/19/15	0930

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1500678

Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

Sample(s) received on: 2/19/15 Date opened: 2/19/15 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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500678-001.01	1.0 L Source Can					
P1500678-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00547

Initial Pressure (psig): -0.93 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.6**	1.9	0.52	**1.5**	1.1	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.9	0.63	**0.42**	0.37	0.13	
74-87-3	Chloromethane	**0.57**	1.9	0.56	**0.28**	0.90	0.27	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.70	ND	0.26	0.10	
75-01-4	Vinyl Chloride	ND	1.9	0.63	ND	0.72	0.25	
106-99-0	1,3-Butadiene	ND	1.9	0.81	ND	0.84	0.37	
74-83-9	Bromomethane	ND	1.9	0.70	ND	0.48	0.18	
75-00-3	Chloroethane	ND	1.9	0.63	ND	0.70	0.24	
64-17-5	Ethanol	**180**	19	3.0	**97**	9.8	1.6	
75-05-8	Acetonitrile	ND	1.9	0.67	ND	1.1	0.40	
107-02-8	Acrolein	**0.90**	7.4	0.63	**0.39**	3.2	0.27	**J**
67-64-1	Acetone	**510**	19	2.8	**210**	7.8	1.2	
75-69-4	Trichlorofluoromethane	**1.1**	1.9	0.63	**0.20**	0.33	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**14**	19	1.6	**5.6**	7.5	0.63	**J**
107-13-1	Acrylonitrile	ND	1.9	0.63	ND	0.85	0.29	
75-35-4	1,1-Dichloroethene	ND	1.9	0.63	ND	0.47	0.16	
75-09-2	Methylene Chloride	ND	1.9	0.63	ND	0.53	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.59	ND	0.59	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.63	ND	0.24	0.082	
75-15-0	Carbon Disulfide	ND	19	0.56	ND	5.9	0.18	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.70	ND	0.47	0.18	
75-34-3	1,1-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.63	ND	0.51	0.17	
108-05-4	Vinyl Acetate	ND	19	2.4	ND	5.3	0.68	
78-93-3	2-Butanone (MEK)	**10**	19	0.78	**3.4**	6.3	0.26	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00547

Initial Pressure (psig): -0.93 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.59	ND	0.47	0.15	
141-78-6	Ethyl Acetate	**51**	3.7	1.3	**14**	1.0	0.36	
110-54-3	n-Hexane	**1.6**	1.9	0.56	**0.45**	0.53	0.16	**J**
67-66-3	Chloroform	ND	1.9	0.63	ND	0.38	0.13	
109-99-9	Tetrahydrofuran (THF)	**2.2**	1.9	0.74	**0.76**	0.63	0.25	
107-06-2	1,2-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.63	ND	0.34	0.12	
71-43-2	Benzene	**0.98**	1.9	0.59	**0.31**	0.58	0.19	**J**
56-23-5	Carbon Tetrachloride	ND	1.9	0.56	ND	0.29	0.088	
110-82-7	Cyclohexane	**1.2**	3.7	1.1	**0.36**	1.1	0.31	**J**
78-87-5	1,2-Dichloropropane	ND	1.9	0.59	ND	0.40	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.56	ND	0.28	0.083	
79-01-6	Trichloroethene	ND	1.9	0.52	ND	0.34	0.096	
123-91-1	1,4-Dioxane	ND	1.9	0.59	ND	0.51	0.16	
80-62-6	Methyl Methacrylate	ND	3.7	1.1	ND	0.90	0.28	
142-82-5	n-Heptane	**0.87**	1.9	0.63	**0.21**	0.45	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.52	ND	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	**13**	1.9	0.59	**3.2**	0.45	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.59	ND	0.41	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.59	ND	0.34	0.11	
108-88-3	Toluene	**33**	1.9	0.63	**8.9**	0.49	0.17	
591-78-6	2-Hexanone	ND	1.9	0.59	ND	0.45	0.14	
124-48-1	Dibromochloromethane	ND	1.9	0.59	ND	0.22	0.070	
106-93-4	1,2-Dibromoethane	ND	1.9	0.59	ND	0.24	0.077	
123-86-4	n-Butyl Acetate	**2.7**	1.9	0.59	**0.57**	0.39	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-001

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00547

Initial Pressure (psig): -0.93 Final Pressure (psig): 5.66

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.7**	1.9	0.67	**0.36**	0.40	0.14	**J**
127-18-4	Tetrachloroethene	**2.2**	1.9	0.52	**0.32**	0.27	0.076	
108-90-7	Chlorobenzene	ND	1.9	0.59	ND	0.40	0.13	
100-41-4	Ethylbenzene	**23**	1.9	0.59	**5.3**	0.43	0.14	
179601-23-1	m,p-Xylenes	**93**	3.7	1.1	**21**	0.85	0.26	
75-25-2	Bromoform	ND	1.9	0.56	ND	0.18	0.054	
100-42-5	Styrene	**1.6**	1.9	0.56	**0.39**	0.43	0.13	**J**
95-47-6	o-Xylene	**30**	1.9	0.56	**6.9**	0.43	0.13	
111-84-2	n-Nonane	**1.6**	1.9	0.56	**0.30**	0.35	0.11	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.56	ND	0.27	0.081	
98-82-8	Cumene	**0.73**	1.9	0.56	**0.15**	0.38	0.11	**J**
80-56-8	alpha-Pinene	**1.9**	1.9	0.52	**0.33**	0.33	0.093	
103-65-1	n-Propylbenzene	**1.2**	1.9	0.59	**0.24**	0.38	0.12	**J**
622-96-8	4-Ethyltoluene	**2.0**	1.9	0.59	**0.40**	0.38	0.12	
108-67-8	1,3,5-Trimethylbenzene	**2.1**	1.9	0.59	**0.42**	0.38	0.12	
95-63-6	1,2,4-Trimethylbenzene	**6.2**	1.9	0.56	**1.3**	0.38	0.11	
100-44-7	Benzyl Chloride	ND	1.9	0.41	ND	0.36	0.079	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
106-46-7	1,4-Dichlorobenzene	**5.2**	1.9	0.52	**0.87**	0.31	0.086	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
5989-27-5	d-Limonene	**1.2**	1.9	0.52	**0.21**	0.33	0.093	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.37	ND	0.19	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.59	ND	0.25	0.080	
91-20-3	Naphthalene	ND	1.9	0.67	ND	0.35	0.13	
87-68-3	Hexachlorobutadiene	ND	1.9	0.52	ND	0.17	0.049	

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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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00789

Initial Pressure (psig): -1.09 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.3**	1.9	0.53	**1.9**	1.1	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.9	0.65	**0.43**	0.38	0.13	
74-87-3	Chloromethane	**0.76**	1.9	0.57	**0.37**	0.92	0.28	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.72	ND	0.27	0.10	
75-01-4	Vinyl Chloride	ND	1.9	0.65	ND	0.74	0.25	
106-99-0	1,3-Butadiene	ND	1.9	0.84	ND	0.86	0.38	
74-83-9	Bromomethane	ND	1.9	0.72	ND	0.49	0.19	
75-00-3	Chloroethane	ND	1.9	0.65	ND	0.72	0.24	
64-17-5	Ethanol	**560**	19	3.0	**300**	10	1.6	
75-05-8	Acetonitrile	ND	1.9	0.68	ND	1.1	0.41	
107-02-8	Acrolein	**1.7**	7.6	0.65	**0.75**	3.3	0.28	**J**
67-64-1	Acetone	**690**	19	2.9	**290**	8.0	1.2	
75-69-4	Trichlorofluoromethane	**1.2**	1.9	0.65	**0.21**	0.34	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**36**	19	1.6	**15**	7.7	0.65	
107-13-1	Acrylonitrile	ND	1.9	0.65	ND	0.88	0.30	
75-35-4	1,1-Dichloroethene	ND	1.9	0.65	ND	0.48	0.16	
75-09-2	Methylene Chloride	ND	1.9	0.65	ND	0.55	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.61	ND	0.61	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.65	ND	0.25	0.084	
75-15-0	Carbon Disulfide	ND	19	0.57	ND	6.1	0.18	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.72	ND	0.48	0.18	
75-34-3	1,1-Dichloroethane	ND	1.9	0.61	ND	0.47	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.65	ND	0.53	0.18	
108-05-4	Vinyl Acetate	**3.9**	19	2.5	**1.1**	5.4	0.70	**J**
78-93-3	2-Butanone (MEK)	**16**	19	0.80	**5.4**	6.4	0.27	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00789

Initial Pressure (psig): -1.09 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.61	ND	0.48	0.15	
141-78-6	Ethyl Acetate	**95**	3.8	1.3	**26**	1.1	0.37	
110-54-3	n-Hexane	**2.1**	1.9	0.57	**0.60**	0.54	0.16	
67-66-3	Chloroform	ND	1.9	0.65	ND	0.39	0.13	
109-99-9	Tetrahydrofuran (THF)	**3.8**	1.9	0.76	**1.3**	0.64	0.26	
107-06-2	1,2-Dichloroethane	ND	1.9	0.61	ND	0.47	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.65	ND	0.35	0.12	
71-43-2	Benzene	**0.93**	1.9	0.61	**0.29**	0.59	0.19	**J**
56-23-5	Carbon Tetrachloride	ND	1.9	0.57	ND	0.30	0.091	
110-82-7	Cyclohexane	**2.1**	3.8	1.1	**0.62**	1.1	0.32	**J**
78-87-5	1,2-Dichloropropane	ND	1.9	0.61	ND	0.41	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.57	ND	0.28	0.085	
79-01-6	Trichloroethene	ND	1.9	0.53	ND	0.35	0.099	
123-91-1	1,4-Dioxane	ND	1.9	0.61	ND	0.53	0.17	
80-62-6	Methyl Methacrylate	ND	3.8	1.2	ND	0.93	0.29	
142-82-5	n-Heptane	**1.1**	1.9	0.65	**0.26**	0.46	0.16	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.53	ND	0.42	0.12	
108-10-1	4-Methyl-2-pentanone	**18**	1.9	0.61	**4.4**	0.46	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.61	ND	0.42	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.61	ND	0.35	0.11	
108-88-3	Toluene	**76**	1.9	0.65	**20**	0.50	0.17	
591-78-6	2-Hexanone	ND	1.9	0.61	ND	0.46	0.15	
124-48-1	Dibromochloromethane	ND	1.9	0.61	ND	0.22	0.071	
106-93-4	1,2-Dibromoethane	ND	1.9	0.61	ND	0.25	0.079	
123-86-4	n-Butyl Acetate	**3.5**	1.9	0.61	**0.74**	0.40	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-13** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1500678-002

Test Code: EPA TO-15 Date Collected: 2/17/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 2/19/15
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00789

Initial Pressure (psig): -1.09 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.5**	1.9	0.68	**0.53**	0.41	0.15	
127-18-4	Tetrachloroethene	**2.7**	1.9	0.53	**0.39**	0.28	0.078	
108-90-7	Chlorobenzene	ND	1.9	0.61	ND	0.41	0.13	
100-41-4	Ethylbenzene	**31**	1.9	0.61	**7.1**	0.44	0.14	
179601-23-1	m,p-Xylenes	**130**	3.8	1.1	**29**	0.88	0.26	
75-25-2	Bromoform	ND	1.9	0.57	ND	0.18	0.055	
100-42-5	Styrene	**2.6**	1.9	0.57	**0.60**	0.45	0.13	
95-47-6	o-Xylene	**41**	1.9	0.57	**9.5**	0.44	0.13	
111-84-2	n-Nonane	**2.7**	1.9	0.57	**0.51**	0.36	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.57	ND	0.28	0.083	
98-82-8	Cumene	**1.1**	1.9	0.57	**0.23**	0.39	0.12	**J**
80-56-8	alpha-Pinene	**3.0**	1.9	0.53	**0.54**	0.34	0.096	
103-65-1	n-Propylbenzene	**2.2**	1.9	0.61	**0.44**	0.39	0.12	
622-96-8	4-Ethyltoluene	**4.2**	1.9	0.61	**0.86**	0.39	0.12	
108-67-8	1,3,5-Trimethylbenzene	**4.1**	1.9	0.61	**0.83**	0.39	0.12	
95-63-6	1,2,4-Trimethylbenzene	**12**	1.9	0.57	**2.5**	0.39	0.12	
100-44-7	Benzyl Chloride	ND	1.9	0.42	ND	0.37	0.081	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.57	ND	0.32	0.095	
106-46-7	1,4-Dichlorobenzene	**34**	1.9	0.53	**5.7**	0.32	0.089	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.57	ND	0.32	0.095	
5989-27-5	d-Limonene	**3.5**	1.9	0.53	**0.63**	0.34	0.096	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.38	ND	0.20	0.039	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.61	ND	0.26	0.082	
91-20-3	Naphthalene	ND	1.9	0.68	ND	0.36	0.13	
87-68-3	Hexachlorobutadiene	ND	1.9	0.53	ND	0.18	0.050	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Project ID: P1500678

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 2/17/15
Analyst: Simon Cao Date(s) Received: 2/19/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 2/25/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150225-MB	**100**	**96**	**104**	70-130	
Lab Control Sample	P150225-LCS	**99**	**95**	**106**	70-130	
Air Mon 01-13	P1500678-001	**100**	**94**	**107**	70-130	
Air Mon 02-13	P1500678-002	**100**	**93**	**106**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**194**	**97**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**199**	**98**	66-117	
74-87-3	Chloromethane	198	**185**	**93**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**197**	**96**	65-117	
75-01-4	Vinyl Chloride	202	**195**	**97**	61-127	
106-99-0	1,3-Butadiene	214	**209**	**98**	65-132	
74-83-9	Bromomethane	202	**201**	**100**	62-114	
75-00-3	Chloroethane	202	**203**	**100**	64-122	
64-17-5	Ethanol	1,020	**1030**	**101**	57-131	
75-05-8	Acetonitrile	204	**217**	**106**	52-135	
107-02-8	Acrolein	214	**240**	**112**	64-124	
67-64-1	Acetone	1,080	**1030**	**95**	60-113	
75-69-4	Trichlorofluoromethane	198	**212**	**107**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**441**	**105**	62-129	
107-13-1	Acrylonitrile	208	**236**	**113**	69-133	
75-35-4	1,1-Dichloroethene	214	**213**	**100**	70-114	
75-09-2	Methylene Chloride	216	**200**	**93**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**215**	**99**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**195**	**90**	69-116	
75-15-0	Carbon Disulfide	196	**226**	**115**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**222**	**105**	69-123	
75-34-3	1,1-Dichloroethane	208	**209**	**100**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**205**	**97**	57-125	
108-05-4	Vinyl Acetate	1,020	**1160**	**114**	69-131	
78-93-3	2-Butanone (MEK)	216	**230**	**106**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**200**	**93**	69-119	
141-78-6	Ethyl Acetate	428	**446**	**104**	65-129	
110-54-3	n-Hexane	210	**209**	**100**	55-116	
67-66-3	Chloroform	216	**214**	**99**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**210**	**102**	69-120	
107-06-2	1,2-Dichloroethane	210	**205**	**98**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**205**	**99**	74-116	
71-43-2	Benzene	220	**198**	**90**	61-109	
56-23-5	Carbon Tetrachloride	214	**223**	**104**	76-120	
110-82-7	Cyclohexane	422	**421**	**100**	72-115	
78-87-5	1,2-Dichloropropane	212	**210**	**99**	67-119	
75-27-4	Bromodichloromethane	216	**219**	**101**	78-124	
79-01-6	Trichloroethene	208	**205**	**99**	69-115	
123-91-1	1,4-Dioxane	218	**227**	**104**	69-127	
80-62-6	Methyl Methacrylate	420	**463**	**110**	76-128	
142-82-5	n-Heptane	214	**217**	**101**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**242**	**107**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**239**	**110**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**242**	**112**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**216**	**102**	75-119	
108-88-3	Toluene	212	**197**	**93**	68-114	
591-78-6	2-Hexanone	222	**220**	**99**	60-136	
124-48-1	Dibromochloromethane	220	**213**	**97**	75-132	
106-93-4	1,2-Dibromoethane	216	**211**	**98**	72-122	
123-86-4	n-Butyl Acetate	224	**231**	**103**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500678
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150225-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 2/25/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**200**	**96**	66-120	
127-18-4	Tetrachloroethene	198	**183**	**92**	67-120	
108-90-7	Chlorobenzene	216	**201**	**93**	69-114	
100-41-4	Ethylbenzene	212	**199**	**94**	71-117	
179601-23-1	m,p-Xylenes	420	**395**	**94**	71-118	
75-25-2	Bromoform	216	**234**	**108**	76-149	
100-42-5	Styrene	218	**211**	**97**	71-128	
95-47-6	o-Xylene	206	**193**	**94**	72-118	
111-84-2	n-Nonane	204	**191**	**94**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**201**	**100**	73-124	
98-82-8	Cumene	204	**189**	**93**	71-118	
80-56-8	alpha-Pinene	208	**197**	**95**	71-123	
103-65-1	n-Propylbenzene	202	**190**	**94**	71-120	
622-96-8	4-Ethyltoluene	212	**204**	**96**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**193**	**91**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**199**	**95**	71-122	
100-44-7	Benzyl Chloride	218	**237**	**109**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**204**	**94**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**191**	**90**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**199**	**93**	68-121	
5989-27-5	d-Limonene	210	**204**	**97**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**220**	**107**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**199**	**95**	60-135	
91-20-3	Naphthalene	196	**200**	**102**	63-142	
87-68-3	Hexachlorobutadiene	214	**197**	**92**	65-127	

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.

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LABORATORY REPORT

April 16, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In-Plant Monitoring / KUH0-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2015. For your reference, these analyses have been assigned our service request number P1501334.

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 11:26 am, Apr 16, 2015

Sue Anderson
Project Manager

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Client: Environmental Management Services, Inc. Service Request No: P1501334
Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1501334

Project ID: SVE Monthly In-Plant Monitoring / KUH0-15-011

Date Received: 4/2/2015

Time Received: 09:50

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
Air Mon 01-14	P1501334-001	Air	3/31/2015	07:05	1SC00841	-0.05	5.94	X
Air Mon 02-14	P1501334-002	Air	3/31/2015	07:11	1SC00907	-1.50	6.57	X

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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. P1501334

ALS Contact:

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg, MS 39404

Project Name: SVE Monthly In-Plant Monitoring

Project Number: KUHO-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHO-15-011 / same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
AirMon 01-14	1	3/31/15	7:05	1SC00841	DAD 1367	25	0		X		
AirMon 02-14	2	3/31/15	7:11	1SC00907	DAD 1368	30	4 "Hg		X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore FEDEX	3/31/15	16:50	FEDEX		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 4/2/15	Time: 0950

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1501334

Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

Sample(s) received on: 4/2/15 Date opened: 4/2/15 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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1501334-001.01	1.0 L Source Can					
P1501334-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-001

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00841

Initial Pressure (psig): -0.05 Final Pressure (psig): 5.94

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**29**	1.8	0.49	**17**	1.0	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	1.8	0.60	**0.47**	0.36	0.12	
74-87-3	Chloromethane	**0.70**	1.8	0.53	**0.34**	0.85	0.26	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.8	0.67	ND	0.25	0.096	
75-01-4	Vinyl Chloride	ND	1.8	0.60	ND	0.69	0.23	
106-99-0	1,3-Butadiene	ND	1.8	0.78	ND	0.80	0.35	
74-83-9	Bromomethane	ND	1.8	0.67	ND	0.45	0.17	
75-00-3	Chloroethane	ND	1.8	0.60	ND	0.67	0.23	
64-17-5	Ethanol	**420**	18	2.8	**220**	9.4	1.5	
75-05-8	Acetonitrile	ND	1.8	0.63	ND	1.1	0.38	
107-02-8	Acrolein	**3.5**	7.1	0.60	**1.5**	3.1	0.26	**J**
67-64-1	Acetone	**69**	18	2.7	**29**	7.4	1.1	
75-69-4	Trichlorofluoromethane	**1.3**	1.8	0.60	**0.23**	0.31	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**90**	18	1.5	**37**	7.2	0.60	
107-13-1	Acrylonitrile	ND	1.8	0.60	ND	0.81	0.28	
75-35-4	1,1-Dichloroethene	ND	1.8	0.60	ND	0.44	0.15	
75-09-2	Methylene Chloride	**0.62**	1.8	0.60	**0.18**	0.51	0.17	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.8	0.56	ND	0.56	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.8	0.60	ND	0.23	0.078	
75-15-0	Carbon Disulfide	**2.4**	18	0.53	**0.76**	5.7	0.17	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.67	ND	0.44	0.17	
75-34-3	1,1-Dichloroethane	ND	1.8	0.56	ND	0.44	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.8	0.60	ND	0.49	0.17	
108-05-4	Vinyl Acetate	ND	18	2.3	ND	5.0	0.65	
78-93-3	2-Butanone (MEK)	**25**	18	0.74	**8.6**	6.0	0.25	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-001

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00841

Initial Pressure (psig): -0.05 Final Pressure (psig): 5.94

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.8	0.56	ND	0.44	0.14	
141-78-6	Ethyl Acetate	**6.8**	3.5	1.2	**1.9**	0.98	0.34	
110-54-3	n-Hexane	**1.4**	1.8	0.53	**0.41**	0.50	0.15	**J**
67-66-3	Chloroform	ND	1.8	0.60	ND	0.36	0.12	
109-99-9	Tetrahydrofuran (THF)	ND	1.8	0.71	ND	0.60	0.24	
107-06-2	1,2-Dichloroethane	ND	1.8	0.56	ND	0.44	0.14	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.60	ND	0.32	0.11	
71-43-2	Benzene	**1.0**	1.8	0.56	**0.33**	0.55	0.18	**J**
56-23-5	Carbon Tetrachloride	ND	1.8	0.53	ND	0.28	0.084	
110-82-7	Cyclohexane	**2.0**	3.5	1.0	**0.59**	1.0	0.30	**J**
78-87-5	1,2-Dichloropropane	ND	1.8	0.56	ND	0.38	0.12	
75-27-4	Bromodichloromethane	ND	1.8	0.53	ND	0.26	0.079	
79-01-6	Trichloroethene	ND	1.8	0.49	ND	0.33	0.092	
123-91-1	1,4-Dioxane	ND	1.8	0.56	ND	0.49	0.16	
80-62-6	Methyl Methacrylate	ND	3.5	1.1	ND	0.86	0.27	
142-82-5	n-Heptane	**1.4**	1.8	0.60	**0.33**	0.43	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.49	ND	0.39	0.11	
108-10-1	4-Methyl-2-pentanone	**25**	1.8	0.56	**6.1**	0.43	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.56	ND	0.39	0.12	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.56	ND	0.32	0.10	
108-88-3	Toluene	**230**	1.8	0.60	**60**	0.47	0.16	
591-78-6	2-Hexanone	ND	1.8	0.56	ND	0.43	0.14	
124-48-1	Dibromochloromethane	ND	1.8	0.56	ND	0.21	0.066	
106-93-4	1,2-Dibromoethane	ND	1.8	0.56	ND	0.23	0.073	
123-86-4	n-Butyl Acetate	ND	1.8	0.56	ND	0.37	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-001

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00841

Initial Pressure (psig): -0.05 Final Pressure (psig): 5.94

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**3.7**	1.8	0.63	**0.78**	0.38	0.14	
127-18-4	Tetrachloroethene	ND	1.8	0.49	ND	0.26	0.073	
108-90-7	Chlorobenzene	ND	1.8	0.56	ND	0.38	0.12	
100-41-4	Ethylbenzene	**18**	1.8	0.56	**4.1**	0.41	0.13	
179601-23-1	m,p-Xylenes	**74**	3.5	1.1	**17**	0.81	0.24	
75-25-2	Bromoform	ND	1.8	0.53	ND	0.17	0.051	
100-42-5	Styrene	**4.1**	1.8	0.53	**0.97**	0.41	0.12	
95-47-6	o-Xylene	**31**	1.8	0.53	**7.2**	0.41	0.12	
111-84-2	n-Nonane	**58**	1.8	0.53	**11**	0.34	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.53	ND	0.26	0.077	
98-82-8	Cumene	**2.0**	1.8	0.53	**0.41**	0.36	0.11	
80-56-8	alpha-Pinene	**15**	1.8	0.49	**2.7**	0.32	0.089	
103-65-1	n-Propylbenzene	**4.8**	1.8	0.56	**0.97**	0.36	0.11	
622-96-8	4-Ethyltoluene	**8.4**	1.8	0.56	**1.7**	0.36	0.11	
108-67-8	1,3,5-Trimethylbenzene	**8.5**	1.8	0.56	**1.7**	0.36	0.11	
95-63-6	1,2,4-Trimethylbenzene	**22**	1.8	0.53	**4.4**	0.36	0.11	
100-44-7	Benzyl Chloride	ND	1.8	0.39	ND	0.34	0.075	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
106-46-7	1,4-Dichlorobenzene	**43**	1.8	0.49	**7.2**	0.29	0.082	
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.53	ND	0.29	0.088	
5989-27-5	d-Limonene	**9.2**	1.8	0.49	**1.6**	0.32	0.089	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.35	ND	0.18	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.56	ND	0.24	0.076	
91-20-3	Naphthalene	ND	1.8	0.63	ND	0.34	0.12	
87-68-3	Hexachlorobutadiene	ND	1.8	0.49	ND	0.17	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-002

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.20 Liter(s)
Test Notes:
Container ID: 1SC00907

Initial Pressure (psig): -1.50 Final Pressure (psig): 6.57

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	4.0	1.1	ND	2.3	0.66	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	4.0	1.4	**0.45**	0.81	0.28	**J**
74-87-3	Chloromethane	ND	4.0	1.2	ND	1.9	0.58	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	4.0	1.5	ND	0.58	0.22	
75-01-4	Vinyl Chloride	ND	4.0	1.4	ND	1.6	0.54	
106-99-0	1,3-Butadiene	ND	4.0	1.8	ND	1.8	0.80	
74-83-9	Bromomethane	ND	4.0	1.5	ND	1.0	0.39	
75-00-3	Chloroethane	ND	4.0	1.4	ND	1.5	0.52	
64-17-5	Ethanol	**510**	40	6.4	**270**	21	3.4	
75-05-8	Acetonitrile	ND	4.0	1.4	ND	2.4	0.86	
107-02-8	Acrolein	**5.4**	16	1.4	**2.3**	7.0	0.60	**J**
67-64-1	Acetone	**2,100**	40	6.2	**860**	17	2.6	
75-69-4	Trichlorofluoromethane	ND	4.0	1.4	ND	0.72	0.24	
67-63-0	2-Propanol (Isopropyl Alcohol)	**39**	40	3.4	**16**	16	1.4	**J**
107-13-1	Acrylonitrile	ND	4.0	1.4	ND	1.9	0.63	
75-35-4	1,1-Dichloroethene	ND	4.0	1.4	ND	1.0	0.35	
75-09-2	Methylene Chloride	ND	4.0	1.4	ND	1.2	0.39	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	4.0	1.3	ND	1.3	0.41	
76-13-1	Trichlorotrifluoroethane	ND	4.0	1.4	ND	0.53	0.18	
75-15-0	Carbon Disulfide	**3.2**	40	1.2	**1.0**	13	0.39	**J**
156-60-5	trans-1,2-Dichloroethene	ND	4.0	1.5	ND	1.0	0.39	
75-34-3	1,1-Dichloroethane	ND	4.0	1.3	ND	0.99	0.32	
1634-04-4	Methyl tert-Butyl Ether	ND	4.0	1.4	ND	1.1	0.38	
108-05-4	Vinyl Acetate	ND	40	5.2	ND	11	1.5	
78-93-3	2-Butanone (MEK)	**24**	40	1.7	**8.1**	14	0.57	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-002

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.20 Liter(s)
Test Notes:
Container ID: 1SC00907

Initial Pressure (psig): -1.50 Final Pressure (psig): 6.57

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	4.0	1.3	ND	1.0	0.32	
141-78-6	Ethyl Acetate	**21**	8.1	2.8	**5.8**	2.2	0.78	
110-54-3	n-Hexane	**1.3**	4.0	1.2	**0.36**	1.1	0.34	**J**
67-66-3	Chloroform	ND	4.0	1.4	ND	0.82	0.28	
109-99-9	Tetrahydrofuran (THF)	ND	4.0	1.6	ND	1.4	0.55	
107-06-2	1,2-Dichloroethane	ND	4.0	1.3	ND	0.99	0.32	
71-55-6	1,1,1-Trichloroethane	ND	4.0	1.4	ND	0.74	0.25	
71-43-2	Benzene	**1.3**	4.0	1.3	**0.42**	1.3	0.40	**J**
56-23-5	Carbon Tetrachloride	ND	4.0	1.2	ND	0.64	0.19	
110-82-7	Cyclohexane	**5.7**	8.1	2.3	**1.7**	2.3	0.68	**J**
78-87-5	1,2-Dichloropropane	ND	4.0	1.3	ND	0.87	0.28	
75-27-4	Bromodichloromethane	ND	4.0	1.2	ND	0.60	0.18	
79-01-6	Trichloroethene	ND	4.0	1.1	ND	0.75	0.21	
123-91-1	1,4-Dioxane	ND	4.0	1.3	ND	1.1	0.36	
80-62-6	Methyl Methacrylate	ND	8.1	2.5	ND	2.0	0.61	
142-82-5	n-Heptane	**1.9**	4.0	1.4	**0.47**	0.98	0.33	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.1	ND	0.89	0.25	
108-10-1	4-Methyl-2-pentanone	**130**	4.0	1.3	**32**	0.98	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.3	ND	0.89	0.28	
79-00-5	1,1,2-Trichloroethane	ND	4.0	1.3	ND	0.74	0.24	
108-88-3	Toluene	**860**	4.0	1.4	**230**	1.1	0.36	
591-78-6	2-Hexanone	ND	4.0	1.3	ND	0.98	0.31	
124-48-1	Dibromochloromethane	ND	4.0	1.3	ND	0.47	0.15	
106-93-4	1,2-Dibromoethane	ND	4.0	1.3	ND	0.52	0.17	
123-86-4	n-Butyl Acetate	ND	4.0	1.3	ND	0.85	0.27	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-14** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501334-002

Test Code: EPA TO-15 Date Collected: 3/31/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 4/2/15
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.20 Liter(s)
Test Notes:
Container ID: 1SC00907

Initial Pressure (psig): -1.50 Final Pressure (psig): 6.57

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**24**	4.0	1.4	**5.1**	0.86	0.31	
127-18-4	Tetrachloroethene	**2.8**	4.0	1.1	**0.42**	0.59	0.17	**J**
108-90-7	Chlorobenzene	ND	4.0	1.3	ND	0.87	0.28	
100-41-4	Ethylbenzene	**120**	4.0	1.3	**28**	0.93	0.30	
179601-23-1	m,p-Xylenes	**520**	8.1	2.4	**120**	1.9	0.56	
75-25-2	Bromoform	ND	4.0	1.2	ND	0.39	0.12	
100-42-5	Styrene	**2.5**	4.0	1.2	**0.58**	0.95	0.28	**J**
95-47-6	o-Xylene	**170**	4.0	1.2	**39**	0.93	0.28	
111-84-2	n-Nonane	**33**	4.0	1.2	**6.2**	0.77	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	1.2	ND	0.59	0.18	
98-82-8	Cumene	**3.8**	4.0	1.2	**0.78**	0.82	0.25	**J**
80-56-8	alpha-Pinene	**7.1**	4.0	1.1	**1.3**	0.72	0.20	
103-65-1	n-Propylbenzene	**6.3**	4.0	1.3	**1.3**	0.82	0.26	
622-96-8	4-Ethyltoluene	**10**	4.0	1.3	**2.1**	0.82	0.26	
108-67-8	1,3,5-Trimethylbenzene	**9.9**	4.0	1.3	**2.0**	0.82	0.26	
95-63-6	1,2,4-Trimethylbenzene	**30**	4.0	1.2	**6.1**	0.82	0.25	
100-44-7	Benzyl Chloride	ND	4.0	0.89	ND	0.78	0.17	
541-73-1	1,3-Dichlorobenzene	ND	4.0	1.2	ND	0.67	0.20	
106-46-7	1,4-Dichlorobenzene	**23**	4.0	1.1	**3.8**	0.67	0.19	
95-50-1	1,2-Dichlorobenzene	ND	4.0	1.2	ND	0.67	0.20	
5989-27-5	d-Limonene	**2.7**	4.0	1.1	**0.48**	0.72	0.20	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.80	ND	0.42	0.082	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	1.3	ND	0.54	0.17	
91-20-3	Naphthalene	**2.1**	4.0	1.4	**0.39**	0.77	0.28	**J**
87-68-3	Hexachlorobutadiene	ND	4.0	1.1	ND	0.38	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Project ID: P1501334

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 3/31/15
Analyst: Evelyn Alvarez Date(s) Received: 4/2/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 4/13/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150413-MB	**101**	**98**	**104**	70-130	
Lab Control Sample	P150413-LCS	**99**	**96**	**105**	70-130	
Air Mon 01-14	P1501334-001	**102**	**93**	**105**	70-130	
Air Mon 02-14	P1501334-002	**102**	**91**	**106**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**170**	**85**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**177**	**87**	66-117	
74-87-3	Chloromethane	198	**174**	**88**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**175**	**85**	65-117	
75-01-4	Vinyl Chloride	202	**181**	**90**	61-127	
106-99-0	1,3-Butadiene	214	**213**	**100**	65-132	
74-83-9	Bromomethane	202	**198**	**98**	62-114	
75-00-3	Chloroethane	202	**197**	**98**	64-122	
64-17-5	Ethanol	1,020	**935**	**92**	57-131	
75-05-8	Acetonitrile	204	**195**	**96**	52-135	
107-02-8	Acrolein	214	**229**	**107**	64-124	
67-64-1	Acetone	1,080	**1010**	**94**	60-113	
75-69-4	Trichlorofluoromethane	198	**200**	**101**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**394**	**94**	62-129	
107-13-1	Acrylonitrile	208	**219**	**105**	69-133	
75-35-4	1,1-Dichloroethene	214	**217**	**101**	70-114	
75-09-2	Methylene Chloride	216	**189**	**88**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**240**	**110**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**200**	**93**	69-116	
75-15-0	Carbon Disulfide	196	**198**	**101**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**204**	**96**	69-123	
75-34-3	1,1-Dichloroethane	208	**195**	**94**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**203**	**96**	57-125	
108-05-4	Vinyl Acetate	1,020	**920**	**90**	69-131	
78-93-3	2-Butanone (MEK)	216	**211**	**98**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**208**	**97**	69-119	
141-78-6	Ethyl Acetate	428	**391**	**91**	65-129	
110-54-3	n-Hexane	210	**202**	**96**	55-116	
67-66-3	Chloroform	216	**191**	**88**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**190**	**92**	69-120	
107-06-2	1,2-Dichloroethane	210	**196**	**93**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**198**	**95**	74-116	
71-43-2	Benzene	220	**179**	**81**	61-109	
56-23-5	Carbon Tetrachloride	214	**220**	**103**	76-120	
110-82-7	Cyclohexane	422	**403**	**95**	72-115	
78-87-5	1,2-Dichloropropane	212	**200**	**94**	67-119	
75-27-4	Bromodichloromethane	216	**213**	**99**	78-124	
79-01-6	Trichloroethene	208	**198**	**95**	69-115	
123-91-1	1,4-Dioxane	218	**184**	**84**	69-127	
80-62-6	Methyl Methacrylate	420	**393**	**94**	76-128	
142-82-5	n-Heptane	214	**213**	**100**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**233**	**103**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**186**	**85**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**220**	**102**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**209**	**99**	75-119	
108-88-3	Toluene	212	**188**	**89**	68-114	
591-78-6	2-Hexanone	222	**168**	**76**	60-136	
124-48-1	Dibromochloromethane	220	**216**	**98**	75-132	
106-93-4	1,2-Dibromoethane	216	**212**	**98**	72-122	
123-86-4	n-Butyl Acetate	224	**186**	**83**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501334
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150413-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 4/13/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**195**	**94**	66-120	
127-18-4	Tetrachloroethene	198	**179**	**90**	67-120	
108-90-7	Chlorobenzene	216	**189**	**88**	69-114	
100-41-4	Ethylbenzene	212	**196**	**92**	71-117	
179601-23-1	m,p-Xylenes	420	**396**	**94**	71-118	
75-25-2	Bromoform	216	**219**	**101**	76-149	
100-42-5	Styrene	218	**206**	**94**	71-128	
95-47-6	o-Xylene	206	**188**	**91**	72-118	
111-84-2	n-Nonane	204	**193**	**95**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**187**	**93**	73-124	
98-82-8	Cumene	204	**181**	**89**	71-118	
80-56-8	alpha-Pinene	208	**198**	**95**	71-123	
103-65-1	n-Propylbenzene	202	**185**	**92**	71-120	
622-96-8	4-Ethyltoluene	212	**194**	**92**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**183**	**86**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**192**	**91**	71-122	
100-44-7	Benzyl Chloride	218	**208**	**95**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**202**	**93**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**184**	**87**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**187**	**87**	68-121	
5989-27-5	d-Limonene	210	**194**	**92**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**177**	**86**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**177**	**84**	60-135	
91-20-3	Naphthalene	196	**157**	**80**	63-142	
87-68-3	Hexachlorobutadiene	214	**166**	**78**	65-127	

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.

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LABORATORY REPORT

May 14, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In-Plant Monitoring / KUH0-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on May 1, 2015. For your reference, these analyses have been assigned our service request number P1501782.

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 9:57 am, May 14, 2015

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1501782
Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on May 1, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The spike recoveries of Trichlorofluoromethane and Methylene Chloride for the Laboratory Control Sample (LCS) analyzed on May 12, 2015 were outside the laboratory generated control criterion. The recovery errors equate to a potential high bias. However, the spike recoveries of the analytes in question were within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1501782

Project ID: SVE Monthly In-Plant Monitoring / KUH0-15-011

Date Received: 5/1/2015

Time Received: 12:45

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
Air Mon 01-15	P1501782-001	Air	4/29/2015	06:52	1SC01212	-1.07	5.53			X
Air Mon 02-15	P1501782-002	Air	4/29/2015	06:58	1SS00074	-1.45	5.18	-1.18	5.55	X

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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 P1501782

ALS Contact:

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg, MS 39404

Project Name: SVE Monthly In-Plant Monitoring

Project Number: KUHD-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHD-15-011 / same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
AirMon D1-15		4/29/15	6:52	15C01212	AVG 03568	30	4 "Hg		X		
AirMon D2-15		4/29/15	6:58	15S00074	AVG 03482	30	3.1 "Hg		X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	4/29/15	16:45	[illegible]		
[illegible]			[illegible]	5/1/15	1245

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1501782

Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

Sample(s) received on: 5/1/15 Date opened: 5/1/15 by: KKELPE

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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature: ° C Blank Temperature: ° C			
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☐	☒
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1501782-001.01	1.0 L Source Can					
P1501782-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-001

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 5/1/15
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01212

Initial Pressure (psig): -1.07 Final Pressure (psig): 5.53

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	1.9	0.52	ND	1.1	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.5**	1.9	0.63	**0.50**	0.37	0.13	
74-87-3	Chloromethane	**1.1**	1.9	0.56	**0.51**	0.90	0.27	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.70	ND	0.26	0.10	
75-01-4	Vinyl Chloride	ND	1.9	0.63	ND	0.72	0.25	
106-99-0	1,3-Butadiene	ND	1.9	0.81	ND	0.84	0.37	
74-83-9	Bromomethane	ND	1.9	0.70	ND	0.48	0.18	
75-00-3	Chloroethane	ND	1.9	0.63	ND	0.70	0.24	
64-17-5	Ethanol	**570**	19	3.0	**300**	9.8	1.6	
75-05-8	Acetonitrile	ND	1.9	0.67	ND	1.1	0.40	
107-02-8	Acrolein	**1.2**	7.4	0.63	**0.54**	3.2	0.27	**J**
67-64-1	Acetone	**220**	19	2.8	**94**	7.8	1.2	
75-69-4	Trichlorofluoromethane	**1.4**	1.9	0.63	**0.25**	0.33	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**47**	19	1.6	**19**	7.5	0.63	
107-13-1	Acrylonitrile	ND	1.9	0.63	ND	0.85	0.29	
75-35-4	1,1-Dichloroethene	ND	1.9	0.63	ND	0.47	0.16	
75-09-2	Methylene Chloride	**0.77**	1.9	0.63	**0.22**	0.53	0.18	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.59	ND	0.59	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.63	ND	0.24	0.082	
75-15-0	Carbon Disulfide	**1.9**	19	0.56	**0.62**	5.9	0.18	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.70	ND	0.47	0.18	
75-34-3	1,1-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.63	ND	0.51	0.17	
108-05-4	Vinyl Acetate	ND	19	2.4	ND	5.3	0.68	
78-93-3	2-Butanone (MEK)	**32**	19	0.78	**11**	6.3	0.26	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-001

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 5/1/15
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01212

Initial Pressure (psig): -1.07 Final Pressure (psig): 5.53

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.59	ND	0.47	0.15	
141-78-6	Ethyl Acetate	**3.8**	3.7	1.3	**1.1**	1.0	0.36	
110-54-3	n-Hexane	**6.2**	1.9	0.56	**1.8**	0.53	0.16	
67-66-3	Chloroform	ND	1.9	0.63	ND	0.38	0.13	
109-99-9	Tetrahydrofuran (THF)	**16**	1.9	0.74	**5.3**	0.63	0.25	
107-06-2	1,2-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.63	ND	0.34	0.12	
71-43-2	Benzene	**0.68**	1.9	0.59	**0.21**	0.58	0.19	**J**
56-23-5	Carbon Tetrachloride	ND	1.9	0.56	ND	0.29	0.088	
110-82-7	Cyclohexane	**3.7**	3.7	1.1	**1.1**	1.1	0.31	
78-87-5	1,2-Dichloropropane	ND	1.9	0.59	ND	0.40	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.56	ND	0.28	0.083	
79-01-6	Trichloroethene	ND	1.9	0.52	ND	0.34	0.096	
123-91-1	1,4-Dioxane	ND	1.9	0.59	ND	0.51	0.16	
80-62-6	Methyl Methacrylate	ND	3.7	1.1	ND	0.90	0.28	
142-82-5	n-Heptane	**1.4**	1.9	0.63	**0.34**	0.45	0.15	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.52	ND	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	**17**	1.9	0.59	**4.1**	0.45	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.59	ND	0.41	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.59	ND	0.34	0.11	
108-88-3	Toluene	**140**	1.9	0.63	**37**	0.49	0.17	
591-78-6	2-Hexanone	ND	1.9	0.59	ND	0.45	0.14	
124-48-1	Dibromochloromethane	ND	1.9	0.59	ND	0.22	0.070	
106-93-4	1,2-Dibromoethane	ND	1.9	0.59	ND	0.24	0.077	
123-86-4	n-Butyl Acetate	**1.3**	1.9	0.59	**0.28**	0.39	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-001

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 5/1/15
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC01212

Initial Pressure (psig): -1.07 Final Pressure (psig): 5.53

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**4.2**	1.9	0.67	**0.89**	0.40	0.14	
127-18-4	Tetrachloroethene	ND	1.9	0.52	ND	0.27	0.076	
108-90-7	Chlorobenzene	ND	1.9	0.59	ND	0.40	0.13	
100-41-4	Ethylbenzene	**16**	1.9	0.59	**3.8**	0.43	0.14	
179601-23-1	m,p-Xylenes	**73**	3.7	1.1	**17**	0.85	0.26	
75-25-2	Bromoform	ND	1.9	0.56	ND	0.18	0.054	
100-42-5	Styrene	**1.1**	1.9	0.56	**0.26**	0.43	0.13	**J**
95-47-6	o-Xylene	**28**	1.9	0.56	**6.5**	0.43	0.13	
111-84-2	n-Nonane	**5.1**	1.9	0.56	**0.96**	0.35	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.56	ND	0.27	0.081	
98-82-8	Cumene	**1.5**	1.9	0.56	**0.30**	0.38	0.11	**J**
80-56-8	alpha-Pinene	**10**	1.9	0.52	**1.8**	0.33	0.093	
103-65-1	n-Propylbenzene	**3.3**	1.9	0.59	**0.66**	0.38	0.12	
622-96-8	4-Ethyltoluene	**5.9**	1.9	0.59	**1.2**	0.38	0.12	
108-67-8	1,3,5-Trimethylbenzene	**5.8**	1.9	0.59	**1.2**	0.38	0.12	
95-63-6	1,2,4-Trimethylbenzene	**15**	1.9	0.56	**3.0**	0.38	0.11	
100-44-7	Benzyl Chloride	ND	1.9	0.41	ND	0.36	0.079	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
106-46-7	1,4-Dichlorobenzene	**37**	1.9	0.52	**6.1**	0.31	0.086	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
5989-27-5	d-Limonene	**15**	1.9	0.52	**2.6**	0.33	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.37	ND	0.19	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.59	ND	0.25	0.080	
91-20-3	Naphthalene	ND	1.9	0.67	ND	0.35	0.13	
87-68-3	Hexachlorobutadiene	ND	1.9	0.52	ND	0.17	0.049	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-002

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/1/15
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00074

Initial Pressure (psig): -1.45 Final Pressure (psig): 5.18
Initial Pressure 2 (psig): -1.18 Final Pressure 2 (psig): 5.55
Canister Dilution Factor: 2.25

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.8**	2.8	0.79	**4.5**	1.6	0.46	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.5**	2.8	0.96	**0.50**	0.57	0.19	**J**
74-87-3	Chloromethane	**1.1**	2.8	0.84	**0.54**	1.4	0.41	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.8	1.1	ND	0.40	0.15	
75-01-4	Vinyl Chloride	ND	2.8	0.96	ND	1.1	0.37	
106-99-0	1,3-Butadiene	ND	2.8	1.2	ND	1.3	0.56	
74-83-9	Bromomethane	ND	2.8	1.1	ND	0.72	0.28	
75-00-3	Chloroethane	ND	2.8	0.96	ND	1.1	0.36	
64-17-5	Ethanol	**210**	28	4.5	**110**	15	2.4	
75-05-8	Acetonitrile	ND	2.8	1.0	ND	1.7	0.60	
107-02-8	Acrolein	ND	11	0.96	ND	4.9	0.42	
67-64-1	Acetone	**230**	28	4.3	**95**	12	1.8	**B**
75-69-4	Trichlorofluoromethane	**1.2**	2.8	0.96	**0.22**	0.50	0.17	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**16**	28	2.4	**6.4**	11	0.96	**J**
107-13-1	Acrylonitrile	ND	2.8	0.96	ND	1.3	0.44	
75-35-4	1,1-Dichloroethene	ND	2.8	0.96	ND	0.71	0.24	
75-09-2	Methylene Chloride	**1.3**	2.8	0.96	**0.38**	0.81	0.28	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.8	0.90	ND	0.90	0.29	
76-13-1	Trichlorotrifluoroethane	ND	2.8	0.96	ND	0.37	0.12	
75-15-0	Carbon Disulfide	ND	28	0.84	ND	9.0	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	1.1	ND	0.71	0.27	
75-34-3	1,1-Dichloroethane	ND	2.8	0.90	ND	0.70	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	2.8	0.96	ND	0.78	0.27	
108-05-4	Vinyl Acetate	ND	28	3.7	ND	8.0	1.0	
78-93-3	2-Butanone (MEK)	**26**	28	1.2	**8.8**	9.5	0.40	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-002

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/1/15
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00074

Initial Pressure (psig): -1.45 Final Pressure (psig): 5.18
Initial Pressure 2 (psig): -1.18 Final Pressure 2 (psig): 5.55
Canister Dilution Factor: 2.25

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.90	ND	0.71	0.23	
141-78-6	Ethyl Acetate	ND	5.6	2.0	ND	1.6	0.55	
110-54-3	n-Hexane	**6.1**	2.8	0.84	**1.7**	0.80	0.24	
67-66-3	Chloroform	ND	2.8	0.96	ND	0.58	0.20	
109-99-9	Tetrahydrofuran (THF)	**9.1**	2.8	1.1	**3.1**	0.95	0.38	
107-06-2	1,2-Dichloroethane	ND	2.8	0.90	ND	0.70	0.22	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.96	ND	0.52	0.18	
71-43-2	Benzene	ND	2.8	0.90	ND	0.88	0.28	
56-23-5	Carbon Tetrachloride	ND	2.8	0.84	ND	0.45	0.13	
110-82-7	Cyclohexane	**2.0**	5.6	1.6	**0.58**	1.6	0.47	**J**
78-87-5	1,2-Dichloropropane	ND	2.8	0.90	ND	0.61	0.19	
75-27-4	Bromodichloromethane	ND	2.8	0.84	ND	0.42	0.13	
79-01-6	Trichloroethene	ND	2.8	0.79	ND	0.52	0.15	
123-91-1	1,4-Dioxane	ND	2.8	0.90	ND	0.78	0.25	
80-62-6	Methyl Methacrylate	ND	5.6	1.7	ND	1.4	0.43	
142-82-5	n-Heptane	**1.5**	2.8	0.96	**0.36**	0.69	0.23	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.79	ND	0.62	0.17	
108-10-1	4-Methyl-2-pentanone	**6.9**	2.8	0.90	**1.7**	0.69	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.90	ND	0.62	0.20	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.90	ND	0.52	0.17	
108-88-3	Toluene	**18**	2.8	0.96	**4.8**	0.75	0.25	
591-78-6	2-Hexanone	ND	2.8	0.90	ND	0.69	0.22	
124-48-1	Dibromochloromethane	ND	2.8	0.90	ND	0.33	0.11	
106-93-4	1,2-Dibromoethane	ND	2.8	0.90	ND	0.37	0.12	
123-86-4	n-Butyl Acetate	ND	2.8	0.90	ND	0.59	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-15** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1501782-002

Test Code: EPA TO-15 Date Collected: 4/29/15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/1/15
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00074

Initial Pressure (psig): -1.45 Final Pressure (psig): 5.18
Initial Pressure 2 (psig): -1.18 Final Pressure 2 (psig): 5.55
Canister Dilution Factor: 2.25

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.9**	2.8	1.0	**0.63**	0.60	0.22	
127-18-4	Tetrachloroethene	ND	2.8	0.79	ND	0.41	0.12	
108-90-7	Chlorobenzene	ND	2.8	0.90	ND	0.61	0.20	
100-41-4	Ethylbenzene	**9.0**	2.8	0.90	**2.1**	0.65	0.21	
179601-23-1	m,p-Xylenes	**37**	5.6	1.7	**8.4**	1.3	0.39	
75-25-2	Bromoform	ND	2.8	0.84	ND	0.27	0.082	
100-42-5	Styrene	ND	2.8	0.84	ND	0.66	0.20	
95-47-6	o-Xylene	**15**	2.8	0.84	**3.6**	0.65	0.19	
111-84-2	n-Nonane	**2.8**	2.8	0.84	**0.54**	0.54	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.84	ND	0.41	0.12	
98-82-8	Cumene	ND	2.8	0.84	ND	0.57	0.17	
80-56-8	alpha-Pinene	**10**	2.8	0.79	**1.8**	0.50	0.14	
103-65-1	n-Propylbenzene	**1.2**	2.8	0.90	**0.24**	0.57	0.18	**J**
622-96-8	4-Ethyltoluene	**2.0**	2.8	0.90	**0.40**	0.57	0.18	**J**
108-67-8	1,3,5-Trimethylbenzene	**2.4**	2.8	0.90	**0.49**	0.57	0.18	**J**
95-63-6	1,2,4-Trimethylbenzene	**5.2**	2.8	0.84	**1.1**	0.57	0.17	
100-44-7	Benzyl Chloride	ND	2.8	0.62	ND	0.54	0.12	
541-73-1	1,3-Dichlorobenzene	ND	2.8	0.84	ND	0.47	0.14	
106-46-7	1,4-Dichlorobenzene	**3.2**	2.8	0.79	**0.54**	0.47	0.13	
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.84	ND	0.47	0.14	
5989-27-5	d-Limonene	**5.9**	2.8	0.79	**1.1**	0.50	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.56	ND	0.29	0.058	
120-82-1	1,2,4-Trichlorobenzene	ND	2.8	0.90	ND	0.38	0.12	
91-20-3	Naphthalene	ND	2.8	1.0	ND	0.54	0.19	
87-68-3	Hexachlorobutadiene	ND	2.8	0.79	ND	0.26	0.074	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	**1.0**	5.0	0.77	**0.43**	2.1	0.32	**J**
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Project ID: P1501782

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/29/15
Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Received: 5/1/15
Analyst: Simon Cao/Wida Ang Date(s) Analyzed: 5/7 - 5/12/15
Sample Type: 1.0 L Summa Canister(s)
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150507-MB	**107**	**99**	**102**	70-130	
Method Blank	P150512-MB	**99**	**100**	**99**	70-130	
Lab Control Sample	P150507-LCS	**110**	**96**	**103**	70-130	
Lab Control Sample	P150512-LCS	**100**	**99**	**100**	70-130	
Air Mon 01-15	P1501782-001	**103**	**98**	**103**	70-130	
Air Mon 02-15	P1501782-002	**100**	**99**	**100**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**171**	**86**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**190**	**93**	66-117	
74-87-3	Chloromethane	198	**210**	**106**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**183**	**89**	65-117	
75-01-4	Vinyl Chloride	202	**199**	**99**	61-127	
106-99-0	1,3-Butadiene	214	**203**	**95**	65-132	
74-83-9	Bromomethane	202	**192**	**95**	62-114	
75-00-3	Chloroethane	202	**198**	**98**	64-122	
64-17-5	Ethanol	1,020	**901**	**88**	57-131	
75-05-8	Acetonitrile	204	**195**	**96**	52-135	
107-02-8	Acrolein	214	**220**	**103**	64-124	
67-64-1	Acetone	1,080	**841**	**78**	60-113	
75-69-4	Trichlorofluoromethane	198	**203**	**103**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**404**	**96**	62-129	
107-13-1	Acrylonitrile	208	**205**	**99**	69-133	
75-35-4	1,1-Dichloroethene	214	**195**	**91**	70-114	
75-09-2	Methylene Chloride	216	**173**	**80**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**225**	**103**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**192**	**89**	69-116	
75-15-0	Carbon Disulfide	196	**196**	**100**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**205**	**97**	69-123	
75-34-3	1,1-Dichloroethane	208	**196**	**94**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**196**	**92**	57-125	
108-05-4	Vinyl Acetate	1,020	**1080**	**106**	69-131	
78-93-3	2-Butanone (MEK)	216	**171**	**79**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**206**	**96**	69-119	
141-78-6	Ethyl Acetate	428	**422**	**99**	65-129	
110-54-3	n-Hexane	210	**184**	**88**	55-116	
67-66-3	Chloroform	216	**200**	**93**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**156**	**76**	69-120	
107-06-2	1,2-Dichloroethane	210	**201**	**96**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**186**	**89**	74-116	
71-43-2	Benzene	220	**168**	**76**	61-109	
56-23-5	Carbon Tetrachloride	214	**214**	**100**	76-120	
110-82-7	Cyclohexane	422	**358**	**85**	72-115	
78-87-5	1,2-Dichloropropane	212	**194**	**92**	67-119	
75-27-4	Bromodichloromethane	216	**206**	**95**	78-124	
79-01-6	Trichloroethene	208	**181**	**87**	69-115	
123-91-1	1,4-Dioxane	218	**180**	**83**	69-127	
80-62-6	Methyl Methacrylate	420	**379**	**90**	76-128	
142-82-5	n-Heptane	214	**192**	**90**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**214**	**95**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**200**	**92**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**211**	**98**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**192**	**91**	75-119	
108-88-3	Toluene	212	**170**	**80**	68-114	
591-78-6	2-Hexanone	222	**187**	**84**	60-136	
124-48-1	Dibromochloromethane	220	**205**	**93**	75-132	
106-93-4	1,2-Dibromoethane	216	**194**	**90**	72-122	
123-86-4	n-Butyl Acetate	224	**217**	**97**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150507-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/7/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**183**	**88**	66-120	
127-18-4	Tetrachloroethene	198	**163**	**82**	67-120	
108-90-7	Chlorobenzene	216	**180**	**83**	69-114	
100-41-4	Ethylbenzene	212	**181**	**85**	71-117	
179601-23-1	m,p-Xylenes	420	**357**	**85**	71-118	
75-25-2	Bromoform	216	**226**	**105**	76-149	
100-42-5	Styrene	218	**191**	**88**	71-128	
95-47-6	o-Xylene	206	**176**	**85**	72-118	
111-84-2	n-Nonane	204	**190**	**93**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**187**	**93**	73-124	
98-82-8	Cumene	204	**174**	**85**	71-118	
80-56-8	alpha-Pinene	208	**188**	**90**	71-123	
103-65-1	n-Propylbenzene	202	**176**	**87**	71-120	
622-96-8	4-Ethyltoluene	212	**182**	**86**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**181**	**85**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**189**	**90**	71-122	
100-44-7	Benzyl Chloride	218	**221**	**101**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**189**	**87**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**175**	**83**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**189**	**88**	68-121	
5989-27-5	d-Limonene	210	**210**	**100**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**214**	**104**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**197**	**94**	60-135	
91-20-3	Naphthalene	196	**186**	**95**	63-142	
87-68-3	Hexachlorobutadiene	214	**205**	**96**	65-127	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**203**	**102**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**209**	**102**	66-117	
74-87-3	Chloromethane	198	**218**	**110**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**217**	**105**	65-117	
75-01-4	Vinyl Chloride	202	**219**	**108**	61-127	
106-99-0	1,3-Butadiene	214	**262**	**122**	65-132	
74-83-9	Bromomethane	202	**202**	**100**	62-114	
75-00-3	Chloroethane	202	**218**	**108**	64-122	
64-17-5	Ethanol	1,020	**1060**	**104**	57-131	
75-05-8	Acetonitrile	204	**210**	**103**	52-135	
107-02-8	Acrolein	214	**234**	**109**	64-124	
67-64-1	Acetone	1,080	**1000**	**93**	60-113	
75-69-4	Trichlorofluoromethane	198	**228**	**115**	64-112	**L**
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**443**	**105**	62-129	
107-13-1	Acrylonitrile	208	**216**	**104**	69-133	
75-35-4	1,1-Dichloroethene	214	**235**	**110**	70-114	
75-09-2	Methylene Chloride	216	**227**	**105**	63-103	**L**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**229**	**105**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**225**	**104**	69-116	
75-15-0	Carbon Disulfide	196	**232**	**118**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**233**	**110**	69-123	
75-34-3	1,1-Dichloroethane	208	**224**	**108**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**230**	**108**	57-125	
108-05-4	Vinyl Acetate	1,020	**858**	**84**	69-131	
78-93-3	2-Butanone (MEK)	216	**221**	**102**	63-121	

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.
L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**224**	**105**	69-119	
141-78-6	Ethyl Acetate	428	**477**	**111**	65-129	
110-54-3	n-Hexane	210	**208**	**99**	55-116	
67-66-3	Chloroform	216	**228**	**106**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**197**	**96**	69-120	
107-06-2	1,2-Dichloroethane	210	**218**	**104**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**221**	**106**	74-116	
71-43-2	Benzene	220	**198**	**90**	61-109	
56-23-5	Carbon Tetrachloride	214	**251**	**117**	76-120	
110-82-7	Cyclohexane	422	**447**	**106**	72-115	
78-87-5	1,2-Dichloropropane	212	**224**	**106**	67-119	
75-27-4	Bromodichloromethane	216	**235**	**109**	78-124	
79-01-6	Trichloroethene	208	**223**	**107**	69-115	
123-91-1	1,4-Dioxane	218	**189**	**87**	69-127	
80-62-6	Methyl Methacrylate	420	**486**	**116**	76-128	
142-82-5	n-Heptane	214	**235**	**110**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**258**	**114**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**246**	**113**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**247**	**114**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**223**	**105**	75-119	
108-88-3	Toluene	212	**212**	**100**	68-114	
591-78-6	2-Hexanone	222	**217**	**98**	60-136	
124-48-1	Dibromochloromethane	220	**242**	**110**	75-132	
106-93-4	1,2-Dibromoethane	216	**223**	**103**	72-122	
123-86-4	n-Butyl Acetate	224	**252**	**113**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1501782
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150512-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 5/12/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**227**	**109**	66-120	
127-18-4	Tetrachloroethene	198	**207**	**105**	67-120	
108-90-7	Chlorobenzene	216	**219**	**101**	69-114	
100-41-4	Ethylbenzene	212	**225**	**106**	71-117	
179601-23-1	m,p-Xylenes	420	**443**	**105**	71-118	
75-25-2	Bromoform	216	**258**	**119**	76-149	
100-42-5	Styrene	218	**231**	**106**	71-128	
95-47-6	o-Xylene	206	**216**	**105**	72-118	
111-84-2	n-Nonane	204	**209**	**102**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**223**	**110**	73-124	
98-82-8	Cumene	204	**215**	**105**	71-118	
80-56-8	alpha-Pinene	208	**230**	**111**	71-123	
103-65-1	n-Propylbenzene	202	**214**	**106**	71-120	
622-96-8	4-Ethyltoluene	212	**231**	**109**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**217**	**102**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**227**	**108**	71-122	
100-44-7	Benzyl Chloride	218	**274**	**126**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**228**	**105**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**208**	**98**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**219**	**102**	68-121	
5989-27-5	d-Limonene	210	**246**	**117**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**240**	**117**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**220**	**105**	60-135	
91-20-3	Naphthalene	196	**217**	**111**	63-142	
87-68-3	Hexachlorobutadiene	214	**227**	**106**	65-127	

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.

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LABORATORY REPORT

June 16, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In-Plant Monitoring / KUHO-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on June 2, 2015. For your reference, these analyses have been assigned our service request number P1502211.

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 10:19 am, Jun 16, 2015

Sue Anderson
Project Manager

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F: +1 805 526 7270
www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1502211
Project: SVE Monthly In-Plant Monitoring / KUHO-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on June 2, 2015 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 not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1502211

Project ID: SVE Monthly In-Plant Monitoring / KUHO-15-011

Date Received: 6/2/2015

Time Received: 09:50

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
AirMon 01-16	P1502211-001	Air	5/28/2015	06:45	1SC00157	-0.61	7.23	X
AirMon 02-16	P1502211-002	Air	5/28/2015	06:40	1SC00695	-0.88	7.15	X

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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. P150 2211

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 16369 Hattiesburg, MS 39404

Project Name: SVE Monthly In-Plant Monitoring

Project Number: KUHO-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHO-15-011 / same as reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

ALS Contact:

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
AirMon 01-16	1	5/28/15	6:45	ISC00~~0754~~ 1577	DAD14465	21.5	1.0 "Hg		X		
Air Mon 02-16	2	5/28/15	6:40	ISC00695	DAD1473	18	1.5 "Hg		X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries) X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	6/28/15	15:30	FEDEX		
FEDEX				6/29/15	0950

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1502211

Project: SVE Monthly In-Plant Monitoring / KUHO-15-011

Sample(s) received on: 6/2/15 Date opened: 6/2/15 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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1502211-001.01	1.0 L Source Can					
P1502211-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 01-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-001

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00157

Initial Pressure (psig): -0.61 Final Pressure (psig): 7.23

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	2.0	0.55	ND	1.1	0.32	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	2.0	0.66	**0.41**	0.39	0.13	
74-87-3	Chloromethane	**1.1**	2.0	0.59	**0.55**	0.94	0.28	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.74	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	2.0	0.66	ND	0.76	0.26	
106-99-0	1,3-Butadiene	ND	2.0	0.86	ND	0.88	0.39	
74-83-9	Bromomethane	ND	2.0	0.74	ND	0.50	0.19	
75-00-3	Chloroethane	ND	2.0	0.66	ND	0.74	0.25	
64-17-5	Ethanol	**1,100**	20	3.1	**580**	10	1.7	
75-05-8	Acetonitrile	ND	2.0	0.70	ND	1.2	0.42	
107-02-8	Acrolein	**5.2**	7.8	0.66	**2.3**	3.4	0.29	**J**
67-64-1	Acetone	**140**	20	3.0	**57**	8.2	1.3	
75-69-4	Trichlorofluoromethane	**1.2**	2.0	0.66	**0.21**	0.35	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**52**	20	1.6	**21**	7.9	0.67	
107-13-1	Acrylonitrile	ND	2.0	0.66	ND	0.90	0.31	
75-35-4	1,1-Dichloroethene	ND	2.0	0.66	ND	0.49	0.17	
75-09-2	Methylene Chloride	**1.0**	2.0	0.66	**0.30**	0.56	0.19	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.62	ND	0.62	0.20	
76-13-1	Trichlorotrifluoroethane	ND	2.0	0.66	ND	0.25	0.087	
75-15-0	Carbon Disulfide	**0.88**	20	0.59	**0.28**	6.3	0.19	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.74	ND	0.49	0.19	
75-34-3	1,1-Dichloroethane	ND	2.0	0.62	ND	0.48	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.66	ND	0.54	0.18	
108-05-4	Vinyl Acetate	ND	20	2.5	ND	5.5	0.72	
78-93-3	2-Butanone (MEK)	**15**	20	0.82	**5.1**	6.6	0.28	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 01-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-001

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00157

Initial Pressure (psig): -0.61 Final Pressure (psig): 7.23

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.62	ND	0.49	0.16	
141-78-6	Ethyl Acetate	**170**	3.9	1.4	**46**	1.1	0.38	
110-54-3	n-Hexane	**2.3**	2.0	0.59	**0.65**	0.55	0.17	
67-66-3	Chloroform	ND	2.0	0.66	ND	0.40	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	2.0	0.78	ND	0.66	0.26	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ND	0.48	0.15	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.66	ND	0.36	0.12	
71-43-2	Benzene	**1.8**	2.0	0.62	**0.56**	0.61	0.20	**J**
56-23-5	Carbon Tetrachloride	ND	2.0	0.59	ND	0.31	0.093	
110-82-7	Cyclohexane	**8.0**	3.9	1.1	**2.3**	1.1	0.33	
78-87-5	1,2-Dichloropropane	ND	2.0	0.62	ND	0.42	0.14	
75-27-4	Bromodichloromethane	ND	2.0	0.59	ND	0.29	0.087	
79-01-6	Trichloroethene	ND	2.0	0.55	ND	0.36	0.10	
123-91-1	1,4-Dioxane	ND	2.0	0.62	ND	0.54	0.17	
80-62-6	Methyl Methacrylate	ND	3.9	1.2	ND	0.95	0.30	
142-82-5	n-Heptane	**6.2**	2.0	0.66	**1.5**	0.48	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.55	ND	0.43	0.12	
108-10-1	4-Methyl-2-pentanone	**21**	2.0	0.62	**5.1**	0.48	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.62	ND	0.43	0.14	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.62	ND	0.36	0.11	
108-88-3	Toluene	**50**	2.0	0.66	**13**	0.52	0.18	
591-78-6	2-Hexanone	ND	2.0	0.62	ND	0.48	0.15	
124-48-1	Dibromochloromethane	ND	2.0	0.62	ND	0.23	0.073	
106-93-4	1,2-Dibromoethane	ND	2.0	0.62	ND	0.25	0.081	
123-86-4	n-Butyl Acetate	ND	2.0	0.62	ND	0.41	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 01-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-001

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00157

Initial Pressure (psig): -0.61 Final Pressure (psig): 7.23

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**7.0**	2.0	0.70	**1.5**	0.42	0.15	
127-18-4	Tetrachloroethene	ND	2.0	0.55	ND	0.29	0.081	
108-90-7	Chlorobenzene	ND	2.0	0.62	ND	0.42	0.14	
100-41-4	Ethylbenzene	**12**	2.0	0.62	**2.7**	0.45	0.14	
179601-23-1	m,p-Xylenes	**52**	3.9	1.2	**12**	0.90	0.27	
75-25-2	Bromoform	ND	2.0	0.59	ND	0.19	0.057	
100-42-5	Styrene	**3.5**	2.0	0.59	**0.83**	0.46	0.14	
95-47-6	o-Xylene	**21**	2.0	0.59	**4.8**	0.45	0.13	
111-84-2	n-Nonane	**33**	2.0	0.59	**6.3**	0.37	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.59	ND	0.28	0.085	
98-82-8	Cumene	**1.3**	2.0	0.59	**0.26**	0.40	0.12	**J**
80-56-8	alpha-Pinene	**23**	2.0	0.55	**4.1**	0.35	0.098	
103-65-1	n-Propylbenzene	**3.0**	2.0	0.62	**0.62**	0.40	0.13	
622-96-8	4-Ethyltoluene	**5.6**	2.0	0.62	**1.1**	0.40	0.13	
108-67-8	1,3,5-Trimethylbenzene	**5.7**	2.0	0.62	**1.2**	0.40	0.13	
95-63-6	1,2,4-Trimethylbenzene	**17**	2.0	0.59	**3.4**	0.40	0.12	
100-44-7	Benzyl Chloride	ND	2.0	0.43	ND	0.38	0.083	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.59	ND	0.32	0.097	
106-46-7	1,4-Dichlorobenzene	**53**	2.0	0.55	**8.8**	0.32	0.091	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.59	ND	0.32	0.097	
5989-27-5	d-Limonene	**17**	2.0	0.55	**3.1**	0.35	0.098	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.39	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.62	ND	0.26	0.084	
91-20-3	Naphthalene	**1.1**	2.0	0.70	**0.21**	0.37	0.13	**J**
87-68-3	Hexachlorobutadiene	ND	2.0	0.55	ND	0.18	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 02-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-002

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00695

Initial Pressure (psig): -0.88 Final Pressure (psig): 7.15

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.3**	2.0	0.55	**4.2**	1.1	0.32	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	2.0	0.67	**0.40**	0.40	0.14	**J**
74-87-3	Chloromethane	**0.69**	2.0	0.59	**0.33**	0.96	0.29	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.75	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	2.0	0.67	ND	0.77	0.26	
106-99-0	1,3-Butadiene	ND	2.0	0.87	ND	0.89	0.39	
74-83-9	Bromomethane	ND	2.0	0.75	ND	0.51	0.19	
75-00-3	Chloroethane	ND	2.0	0.67	ND	0.75	0.25	
64-17-5	Ethanol	**160**	20	3.2	**86**	10	1.7	
75-05-8	Acetonitrile	ND	2.0	0.71	ND	1.2	0.42	
107-02-8	Acrolein	**4.9**	7.9	0.67	**2.1**	3.4	0.29	**J**
67-64-1	Acetone	**200**	20	3.0	**85**	8.3	1.3	
75-69-4	Trichlorofluoromethane	**1.1**	2.0	0.67	**0.20**	0.35	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**12**	20	1.7	**5.0**	8.0	0.68	**J**
107-13-1	Acrylonitrile	ND	2.0	0.67	ND	0.91	0.31	
75-35-4	1,1-Dichloroethene	ND	2.0	0.67	ND	0.50	0.17	
75-09-2	Methylene Chloride	**1.3**	2.0	0.67	**0.36**	0.57	0.19	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.0	0.63	ND	0.63	0.20	
76-13-1	Trichlorotrifluoroethane	ND	2.0	0.67	ND	0.26	0.088	
75-15-0	Carbon Disulfide	**11**	20	0.59	**3.6**	6.3	0.19	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.75	ND	0.50	0.19	
75-34-3	1,1-Dichloroethane	ND	2.0	0.63	ND	0.49	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	2.0	0.67	ND	0.55	0.19	
108-05-4	Vinyl Acetate	ND	20	2.6	ND	5.6	0.73	
78-93-3	2-Butanone (MEK)	**16**	20	0.83	**5.5**	6.7	0.28	**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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 02-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-002

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00695

Initial Pressure (psig): -0.88 Final Pressure (psig): 7.15

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.63	ND	0.50	0.16	
141-78-6	Ethyl Acetate	**2.0**	4.0	1.4	**0.56**	1.1	0.38	**J**
110-54-3	n-Hexane	**1.9**	2.0	0.59	**0.53**	0.56	0.17	**J**
67-66-3	Chloroform	ND	2.0	0.67	ND	0.40	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	2.0	0.79	ND	0.67	0.27	
107-06-2	1,2-Dichloroethane	ND	2.0	0.63	ND	0.49	0.16	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.67	ND	0.36	0.12	
71-43-2	Benzene	**1.6**	2.0	0.63	**0.49**	0.62	0.20	**J**
56-23-5	Carbon Tetrachloride	ND	2.0	0.59	ND	0.31	0.094	
110-82-7	Cyclohexane	**8.6**	4.0	1.1	**2.5**	1.1	0.33	
78-87-5	1,2-Dichloropropane	ND	2.0	0.63	ND	0.43	0.14	
75-27-4	Bromodichloromethane	ND	2.0	0.59	ND	0.29	0.088	
79-01-6	Trichloroethene	ND	2.0	0.55	ND	0.37	0.10	
123-91-1	1,4-Dioxane	ND	2.0	0.63	ND	0.55	0.18	
80-62-6	Methyl Methacrylate	ND	4.0	1.2	ND	0.97	0.30	
142-82-5	n-Heptane	**3.1**	2.0	0.67	**0.76**	0.48	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.55	ND	0.44	0.12	
108-10-1	4-Methyl-2-pentanone	**8.7**	2.0	0.63	**2.1**	0.48	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.63	ND	0.44	0.14	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.63	ND	0.36	0.12	
108-88-3	Toluene	**30**	2.0	0.67	**8.1**	0.52	0.18	
591-78-6	2-Hexanone	ND	2.0	0.63	ND	0.48	0.15	
124-48-1	Dibromochloromethane	ND	2.0	0.63	ND	0.23	0.074	
106-93-4	1,2-Dibromoethane	ND	2.0	0.63	ND	0.26	0.082	
123-86-4	n-Butyl Acetate	ND	2.0	0.63	ND	0.42	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **AirMon 02-16** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P1502211-002

Test Code: EPA TO-15 Date Collected: 5/28/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/2/15
Analyst: Evelyn Alvarez Date Analyzed: 6/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00695

Initial Pressure (psig): -0.88 Final Pressure (psig): 7.15

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**4.5**	2.0	0.71	**0.97**	0.42	0.15	
127-18-4	Tetrachloroethene	ND	2.0	0.55	ND	0.29	0.082	
108-90-7	Chlorobenzene	ND	2.0	0.63	ND	0.43	0.14	
100-41-4	Ethylbenzene	**13**	2.0	0.63	**3.0**	0.45	0.15	
179601-23-1	m,p-Xylenes	**60**	4.0	1.2	**14**	0.91	0.27	
75-25-2	Bromoform	ND	2.0	0.59	ND	0.19	0.057	
100-42-5	Styrene	**0.89**	2.0	0.59	**0.21**	0.46	0.14	**J**
95-47-6	o-Xylene	**24**	2.0	0.59	**5.5**	0.45	0.14	
111-84-2	n-Nonane	**6.8**	2.0	0.59	**1.3**	0.38	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.59	ND	0.29	0.086	
98-82-8	Cumene	**1.6**	2.0	0.59	**0.32**	0.40	0.12	**J**
80-56-8	alpha-Pinene	**12**	2.0	0.55	**2.1**	0.35	0.099	
103-65-1	n-Propylbenzene	**3.6**	2.0	0.63	**0.73**	0.40	0.13	
622-96-8	4-Ethyltoluene	**6.7**	2.0	0.63	**1.4**	0.40	0.13	
108-67-8	1,3,5-Trimethylbenzene	**6.8**	2.0	0.63	**1.4**	0.40	0.13	
95-63-6	1,2,4-Trimethylbenzene	**22**	2.0	0.59	**4.5**	0.40	0.12	
100-44-7	Benzyl Chloride	ND	2.0	0.43	ND	0.38	0.084	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.099	
106-46-7	1,4-Dichlorobenzene	**34**	2.0	0.55	**5.6**	0.33	0.092	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.59	ND	0.33	0.099	
5989-27-5	d-Limonene	**7.5**	2.0	0.55	**1.4**	0.35	0.099	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.39	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.63	ND	0.27	0.085	
91-20-3	Naphthalene	**1.1**	2.0	0.71	**0.22**	0.38	0.14	**J**
87-68-3	Hexachlorobutadiene	ND	2.0	0.55	ND	0.19	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Project ID: P1502211

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 5/28/15
Analyst: Evelyn Alvarez Date(s) Received: 6/2/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 6/8 - 6/9/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150608-MB	**98**	**99**	**100**	70-130	
Lab Control Sample	P150608-LCS	**96**	**101**	**103**	70-130	
AirMon 01-16	P1502211-001	**94**	**99**	**104**	70-130	
AirMon 02-16	P1502211-002	**94**	**98**	**106**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**190**	**95**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**186**	**91**	66-117	
74-87-3	Chloromethane	198	**177**	**89**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**190**	**92**	65-117	
75-01-4	Vinyl Chloride	202	**190**	**94**	61-127	
106-99-0	1,3-Butadiene	214	**208**	**97**	65-132	
74-83-9	Bromomethane	202	**204**	**101**	62-114	
75-00-3	Chloroethane	202	**203**	**100**	64-122	
64-17-5	Ethanol	1,020	**994**	**97**	57-131	
75-05-8	Acetonitrile	204	**190**	**93**	52-135	
107-02-8	Acrolein	214	**226**	**106**	64-124	
67-64-1	Acetone	1,080	**997**	**92**	60-113	
75-69-4	Trichlorofluoromethane	198	**203**	**103**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**396**	**94**	62-129	
107-13-1	Acrylonitrile	208	**213**	**102**	69-133	
75-35-4	1,1-Dichloroethene	214	**210**	**98**	70-114	
75-09-2	Methylene Chloride	216	**200**	**93**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**207**	**95**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**204**	**94**	69-116	
75-15-0	Carbon Disulfide	196	**196**	**100**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**210**	**99**	69-123	
75-34-3	1,1-Dichloroethane	208	**197**	**95**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**207**	**98**	57-125	
108-05-4	Vinyl Acetate	1,020	**1080**	**106**	69-131	
78-93-3	2-Butanone (MEK)	216	**207**	**96**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**203**	**95**	69-119	
141-78-6	Ethyl Acetate	428	**448**	**105**	65-129	
110-54-3	n-Hexane	210	**202**	**96**	55-116	
67-66-3	Chloroform	216	**201**	**93**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**195**	**95**	69-120	
107-06-2	1,2-Dichloroethane	210	**190**	**90**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**195**	**94**	74-116	
71-43-2	Benzene	220	**202**	**92**	61-109	
56-23-5	Carbon Tetrachloride	214	**221**	**103**	76-120	
110-82-7	Cyclohexane	422	**410**	**97**	72-115	
78-87-5	1,2-Dichloropropane	212	**203**	**96**	67-119	
75-27-4	Bromodichloromethane	216	**214**	**99**	78-124	
79-01-6	Trichloroethene	208	**205**	**99**	69-115	
123-91-1	1,4-Dioxane	218	**212**	**97**	69-127	
80-62-6	Methyl Methacrylate	420	**437**	**104**	76-128	
142-82-5	n-Heptane	214	**209**	**98**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**234**	**104**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**218**	**100**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**229**	**106**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**209**	**99**	75-119	
108-88-3	Toluene	212	**202**	**95**	68-114	
591-78-6	2-Hexanone	222	**215**	**97**	60-136	
124-48-1	Dibromochloromethane	220	**224**	**102**	75-132	
106-93-4	1,2-Dibromoethane	216	**221**	**102**	72-122	
123-86-4	n-Butyl Acetate	224	**232**	**104**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502211
Client Project ID: **SVE Monthly In-Plant Monitoring / KUHO-15-011** ALS Sample ID: P150608-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 6/8/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**205**	**99**	66-120	
127-18-4	Tetrachloroethene	198	**191**	**96**	67-120	
108-90-7	Chlorobenzene	216	**208**	**96**	69-114	
100-41-4	Ethylbenzene	212	**210**	**99**	71-117	
179601-23-1	m,p-Xylenes	420	**415**	**99**	71-118	
75-25-2	Bromoform	216	**252**	**117**	76-149	
100-42-5	Styrene	218	**230**	**106**	71-128	
95-47-6	o-Xylene	206	**205**	**100**	72-118	
111-84-2	n-Nonane	204	**202**	**99**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**214**	**106**	73-124	
98-82-8	Cumene	204	**201**	**99**	71-118	
80-56-8	alpha-Pinene	208	**209**	**100**	71-123	
103-65-1	n-Propylbenzene	202	**203**	**100**	71-120	
622-96-8	4-Ethyltoluene	212	**219**	**103**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**210**	**99**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**218**	**104**	71-122	
100-44-7	Benzyl Chloride	218	**246**	**113**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**232**	**106**	67-121	
106-46-7	1,4-Dichlorobenzene	212	**217**	**102**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**228**	**107**	68-121	
5989-27-5	d-Limonene	210	**228**	**109**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**236**	**115**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**230**	**110**	60-135	
91-20-3	Naphthalene	196	**246**	**126**	63-142	
87-68-3	Hexachlorobutadiene	214	**228**	**107**	65-127	

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.

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LABORATORY REPORT

July 15, 2015

Stephanie Kilgore
Environmental Management Services, Inc.
P.O. Box 15369
Hattiesburg, MS 39404

RE: SVE Monthly In-Plant Monitoring / KUH0-15-011

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on June 30, 2015. For your reference, these analyses have been assigned our service request number P1502628.

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, Jul 15, 2015

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Environmental Management Services, Inc. Service Request No: P1502628
Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

CASE NARRATIVE

The samples were received intact under chain of custody on June 30, 2015 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, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criteria were exceeded for Naphthalene and Hexachlorobutadiene in the Continuing Calibration Verification (CCV). Since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain Hexachlorobutadiene, the data quality for this analyte have not been significantly affected. The results for Naphthalene however are being qualified accordingly. No further corrective action was taken.

The spike recoveries of 1,3-Dichlorobenzene, 1,2-Dichlorobenzene and Hexachlorobutadiene in the Laboratory Control Sample (LCS) were outside the laboratory generated control criteria. The recovery errors equate to a potential high bias. However, the recoveries in question were within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

The canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. 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
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
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. Service Request: P1502628

Project ID: SVE Monthly In-Plant Monitoring / KUH0-15-011

Date Received: 6/30/2015

Time Received: 08:55

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
Air Mon 01-17	P1502628-001	Air	6/24/2015	06:50	1SS00004	-0.89	5.73	X
Air Mon 02-17	P1502628-002	Air	6/24/2015	06:57	1SC00919	-1.21	6.17	X

Air - Chain of Custody Record & Analytical Service Request

ALS
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

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 P1502628

Company Name & Address (Reporting Information): Environmental Management Services, Inc. P.O. Box 15369 Hattiesburg, MS 39404

Project Name: SVE Monthly In-Plant Monitoring

Project Number: KUHD-15-011

Project Manager: Stephanie Kilgore

P.O. # / Billing Information: KUHD-15-011 / Same as Reporting

Phone: 601-544-3674 Fax: 601-544-0504

Email Address for Result Reporting: skilgore@env-mgt.com

Sampler (Print & Sign): Stephanie Kilgore Stephanie Kilgore

ALS Contact:

Analysis Method: TO-15

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	TO-15		Comments e.g. Actual Preservative or specific instructions
Air Mon 01-17	01	6-24-15	6:50	1SS 00004	DA01481	30	2.0		X		
Air Mon 02-17	02	6-24-15	6:57	1SC00919	DA01505	30	3.5		X		

Report Tier Levels - please select
Tier I - Results (Default in not specified) ____
Tier II (Results + QC Summaries X
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Date Validation Package) 10% Surcharge ____

EDD required YES / No
Type: ____ Units: ____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Kilgore	6-24-15	17:30	[illegible]		
[illegible]			[illegible]	6/30/15	0855

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Environmental Management Services, Inc. Work order: P1502628

Project: SVE Monthly In-Plant Monitoring / KUH0-15-011

Sample(s) received on: 6/30/15 Date opened: 6/30/15 by: KKELPE

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?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1502628-001.01	1.0 L Source Silonite Canister					
P1502628-002.01	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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00004

Initial Pressure (psig): -0.89 Final Pressure (psig): 5.73

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**16**	1.9	0.52	**9.4**	1.1	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.9	0.63	**0.39**	0.37	0.13	
74-87-3	Chloromethane	**0.71**	1.9	0.56	**0.34**	0.90	0.27	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.70	ND	0.26	0.10	
75-01-4	Vinyl Chloride	ND	1.9	0.63	ND	0.72	0.25	
106-99-0	1,3-Butadiene	ND	1.9	0.81	ND	0.84	0.37	
74-83-9	Bromomethane	ND	1.9	0.70	ND	0.48	0.18	
75-00-3	Chloroethane	ND	1.9	0.63	ND	0.70	0.24	
64-17-5	Ethanol	**540**	19	3.0	**290**	9.8	1.6	
75-05-8	Acetonitrile	ND	1.9	0.67	ND	1.1	0.40	
107-02-8	Acrolein	**1.8**	7.4	0.63	**0.78**	3.2	0.27	**J**
67-64-1	Acetone	**530**	19	2.8	**220**	7.8	1.2	
75-69-4	Trichlorofluoromethane	**1.1**	1.9	0.63	**0.20**	0.33	0.11	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**44**	19	1.6	**18**	7.5	0.63	
107-13-1	Acrylonitrile	ND	1.9	0.63	ND	0.85	0.29	
75-35-4	1,1-Dichloroethene	ND	1.9	0.63	ND	0.47	0.16	
75-09-2	Methylene Chloride	**1.5**	1.9	0.63	**0.43**	0.53	0.18	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.59	ND	0.59	0.19	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.63	ND	0.24	0.082	
75-15-0	Carbon Disulfide	**1.7**	19	0.56	**0.55**	5.9	0.18	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.70	ND	0.47	0.18	
75-34-3	1,1-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.63	ND	0.51	0.17	
108-05-4	Vinyl Acetate	ND	19	2.4	ND	5.3	0.68	
78-93-3	2-Butanone (MEK)	**77**	19	0.78	**26**	6.3	0.26	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00004

Initial Pressure (psig): -0.89 Final Pressure (psig): 5.73

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.59	ND	0.47	0.15	
141-78-6	Ethyl Acetate	**12**	3.7	1.3	**3.3**	1.0	0.36	
110-54-3	n-Hexane	**26**	1.9	0.56	**7.4**	0.53	0.16	
67-66-3	Chloroform	ND	1.9	0.63	ND	0.38	0.13	
109-99-9	Tetrahydrofuran (THF)	ND	1.9	0.74	ND	0.63	0.25	
107-06-2	1,2-Dichloroethane	ND	1.9	0.59	ND	0.46	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.63	ND	0.34	0.12	
71-43-2	Benzene	**1.0**	1.9	0.59	**0.31**	0.58	0.19	**J**
56-23-5	Carbon Tetrachloride	ND	1.9	0.56	ND	0.29	0.088	
110-82-7	Cyclohexane	**3.3**	3.7	1.1	**0.95**	1.1	0.31	**J**
78-87-5	1,2-Dichloropropane	ND	1.9	0.59	ND	0.40	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.56	ND	0.28	0.083	
79-01-6	Trichloroethene	ND	1.9	0.52	ND	0.34	0.096	
123-91-1	1,4-Dioxane	ND	1.9	0.59	ND	0.51	0.16	
80-62-6	Methyl Methacrylate	ND	3.7	1.1	ND	0.90	0.28	
142-82-5	n-Heptane	**2.1**	1.9	0.63	**0.51**	0.45	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.52	ND	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	**40**	1.9	0.59	**9.9**	0.45	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.59	ND	0.41	0.13	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.59	ND	0.34	0.11	
108-88-3	Toluene	**360**	1.9	0.63	**96**	0.49	0.17	
591-78-6	2-Hexanone	ND	1.9	0.59	ND	0.45	0.14	
124-48-1	Dibromochloromethane	ND	1.9	0.59	ND	0.22	0.070	
106-93-4	1,2-Dibromoethane	ND	1.9	0.59	ND	0.24	0.077	
123-86-4	n-Butyl Acetate	**2.1**	1.9	0.59	**0.45**	0.39	0.12	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 01-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-001

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SS00004

Initial Pressure (psig): -0.89 Final Pressure (psig): 5.73

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**3.8**	1.9	0.67	**0.82**	0.40	0.14	
127-18-4	Tetrachloroethene	**35**	1.9	0.52	**5.1**	0.27	0.076	
108-90-7	Chlorobenzene	ND	1.9	0.59	ND	0.40	0.13	
100-41-4	Ethylbenzene	**39**	1.9	0.59	**9.0**	0.43	0.14	
179601-23-1	m,p-Xylenes	**160**	3.7	1.1	**37**	0.85	0.26	
75-25-2	Bromoform	ND	1.9	0.56	ND	0.18	0.054	
100-42-5	Styrene	**4.2**	1.9	0.56	**0.98**	0.43	0.13	
95-47-6	o-Xylene	**56**	1.9	0.56	**13**	0.43	0.13	
111-84-2	n-Nonane	**5.9**	1.9	0.56	**1.1**	0.35	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.56	ND	0.27	0.081	
98-82-8	Cumene	**2.2**	1.9	0.56	**0.45**	0.38	0.11	
80-56-8	alpha-Pinene	**15**	1.9	0.52	**2.6**	0.33	0.093	
103-65-1	n-Propylbenzene	**4.9**	1.9	0.59	**1.0**	0.38	0.12	
622-96-8	4-Ethyltoluene	**8.7**	1.9	0.59	**1.8**	0.38	0.12	
108-67-8	1,3,5-Trimethylbenzene	**8.0**	1.9	0.59	**1.6**	0.38	0.12	
95-63-6	1,2,4-Trimethylbenzene	**25**	1.9	0.56	**5.0**	0.38	0.11	
100-44-7	Benzyl Chloride	ND	1.9	0.41	ND	0.36	0.079	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
106-46-7	1,4-Dichlorobenzene	**92**	1.9	0.52	**15**	0.31	0.086	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.56	ND	0.31	0.092	
5989-27-5	d-Limonene	**8.0**	1.9	0.52	**1.4**	0.33	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.37	ND	0.19	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.59	ND	0.25	0.080	
91-20-3	Naphthalene	**1.4**	1.9	0.67	**0.26**	0.35	0.13	**J, V**
87-68-3	Hexachlorobutadiene	ND	1.9	0.52	ND	0.17	0.049	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00919

Initial Pressure (psig): -1.21 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**11**	1.9	0.54	**6.4**	1.1	0.32	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.9	0.66	**0.39**	0.39	0.13	
74-87-3	Chloromethane	**0.87**	1.9	0.58	**0.42**	0.94	0.28	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.74	ND	0.28	0.11	
75-01-4	Vinyl Chloride	ND	1.9	0.66	ND	0.76	0.26	
106-99-0	1,3-Butadiene	ND	1.9	0.85	ND	0.88	0.39	
74-83-9	Bromomethane	ND	1.9	0.74	ND	0.50	0.19	
75-00-3	Chloroethane	ND	1.9	0.66	ND	0.73	0.25	
64-17-5	Ethanol	**480**	19	3.1	**250**	10	1.6	
75-05-8	Acetonitrile	ND	1.9	0.70	ND	1.2	0.42	
107-02-8	Acrolein	**5.3**	7.8	0.66	**2.3**	3.4	0.29	**J**
67-64-1	Acetone	**1,400**	19	3.0	**610**	8.2	1.3	
75-69-4	Trichlorofluoromethane	**1.1**	1.9	0.66	**0.20**	0.34	0.12	**J**
67-63-0	2-Propanol (Isopropyl Alcohol)	**43**	19	1.6	**17**	7.9	0.66	
107-13-1	Acrylonitrile	ND	1.9	0.66	ND	0.89	0.30	
75-35-4	1,1-Dichloroethene	ND	1.9	0.66	ND	0.49	0.17	
75-09-2	Methylene Chloride	**3.6**	1.9	0.66	**1.0**	0.56	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.9	0.62	ND	0.62	0.20	
76-13-1	Trichlorotrifluoroethane	ND	1.9	0.66	ND	0.25	0.086	
75-15-0	Carbon Disulfide	**5.5**	19	0.58	**1.8**	6.2	0.19	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.74	ND	0.49	0.19	
75-34-3	1,1-Dichloroethane	ND	1.9	0.62	ND	0.48	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.66	ND	0.54	0.18	
108-05-4	Vinyl Acetate	ND	19	2.5	ND	5.5	0.72	
78-93-3	2-Butanone (MEK)	**85**	19	0.81	**29**	6.6	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00919

Initial Pressure (psig): -1.21 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.62	ND	0.49	0.16	
141-78-6	Ethyl Acetate	**12**	3.9	1.4	**3.3**	1.1	0.38	
110-54-3	n-Hexane	**21**	1.9	0.58	**5.9**	0.55	0.16	
67-66-3	Chloroform	ND	1.9	0.66	ND	0.40	0.13	
109-99-9	Tetrahydrofuran (THF)	ND	1.9	0.78	ND	0.66	0.26	
107-06-2	1,2-Dichloroethane	ND	1.9	0.62	ND	0.48	0.15	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.66	ND	0.36	0.12	
71-43-2	Benzene	**0.68**	1.9	0.62	**0.21**	0.61	0.19	**J**
56-23-5	Carbon Tetrachloride	ND	1.9	0.58	ND	0.31	0.092	
110-82-7	Cyclohexane	**2.7**	3.9	1.1	**0.80**	1.1	0.33	**J**
78-87-5	1,2-Dichloropropane	ND	1.9	0.62	ND	0.42	0.13	
75-27-4	Bromodichloromethane	ND	1.9	0.58	ND	0.29	0.087	
79-01-6	Trichloroethene	ND	1.9	0.54	ND	0.36	0.10	
123-91-1	1,4-Dioxane	ND	1.9	0.62	ND	0.54	0.17	
80-62-6	Methyl Methacrylate	**1.4**	3.9	1.2	**0.34**	0.95	0.29	**J**
142-82-5	n-Heptane	**1.4**	1.9	0.66	**0.35**	0.47	0.16	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.54	ND	0.43	0.12	
108-10-1	4-Methyl-2-pentanone	**130**	1.9	0.62	**32**	0.47	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.62	ND	0.43	0.14	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.62	ND	0.36	0.11	
108-88-3	Toluene	**88**	1.9	0.66	**23**	0.51	0.17	
591-78-6	2-Hexanone	ND	1.9	0.62	ND	0.47	0.15	
124-48-1	Dibromochloromethane	ND	1.9	0.62	ND	0.23	0.073	
106-93-4	1,2-Dibromoethane	ND	1.9	0.62	ND	0.25	0.081	
123-86-4	n-Butyl Acetate	**6.4**	1.9	0.62	**1.3**	0.41	0.13	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Air Mon 02-17** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P1502628-002

Test Code: EPA TO-15 Date Collected: 6/24/15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 6/30/15
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: 1SC00919

Initial Pressure (psig): -1.21 Final Pressure (psig): 6.17

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**4.1**	1.9	0.70	**0.88**	0.41	0.15	
127-18-4	Tetrachloroethene	**25**	1.9	0.54	**3.6**	0.29	0.080	
108-90-7	Chlorobenzene	ND	1.9	0.62	ND	0.42	0.13	
100-41-4	Ethylbenzene	**110**	1.9	0.62	**26**	0.45	0.14	
179601-23-1	m,p-Xylenes	**460**	3.9	1.2	**100**	0.89	0.27	
75-25-2	Bromoform	ND	1.9	0.58	ND	0.19	0.056	
100-42-5	Styrene	**1.0**	1.9	0.58	**0.24**	0.46	0.14	**J**
95-47-6	o-Xylene	**150**	1.9	0.58	**35**	0.45	0.13	
111-84-2	n-Nonane	**6.3**	1.9	0.58	**1.2**	0.37	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.58	ND	0.28	0.085	
98-82-8	Cumene	**2.8**	1.9	0.58	**0.58**	0.39	0.12	
80-56-8	alpha-Pinene	**12**	1.9	0.54	**2.2**	0.35	0.097	
103-65-1	n-Propylbenzene	**5.0**	1.9	0.62	**1.0**	0.39	0.13	
622-96-8	4-Ethyltoluene	**10**	1.9	0.62	**2.1**	0.39	0.13	
108-67-8	1,3,5-Trimethylbenzene	**8.7**	1.9	0.62	**1.8**	0.39	0.13	
95-63-6	1,2,4-Trimethylbenzene	**24**	1.9	0.58	**4.9**	0.39	0.12	
100-44-7	Benzyl Chloride	ND	1.9	0.43	ND	0.37	0.082	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.58	ND	0.32	0.097	
106-46-7	1,4-Dichlorobenzene	**40**	1.9	0.54	**6.6**	0.32	0.090	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.58	ND	0.32	0.097	
5989-27-5	d-Limonene	**5.0**	1.9	0.54	**0.89**	0.35	0.097	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.38	ND	0.20	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.62	ND	0.26	0.084	
91-20-3	Naphthalene	**0.90**	1.9	0.70	**0.17**	0.37	0.13	**J, V**
87-68-3	Hexachlorobutadiene	ND	1.9	0.54	ND	0.18	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.
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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	0.16	ND	0.16	0.051	
76-13-1	Trichlorotrifluoroethane	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	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.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

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

Client: **Environmental Management Services, Inc.**
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Project ID: P1502628

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 6/24/15
Analyst: Evelyn Alvarez Date(s) Received: 6/30/15
Sample Type: 1.0 L Silonite Summa Canister(s) Date(s) Analyzed: 7/9/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150709-MB	**88**	**106**	**111**	70-130	
Lab Control Sample	P150709-LCS	**86**	**105**	**113**	70-130	
Air Mon 01-17	P1502628-001	**86**	**104**	**111**	70-130	
Air Mon 02-17	P1502628-002	**87**	**104**	**112**	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 SUMMARY

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	200	**175**	**88**	50-128	
75-71-8	Dichlorodifluoromethane (CFC 12)	204	**179**	**88**	66-117	
74-87-3	Chloromethane	198	**169**	**85**	51-133	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	**203**	**99**	65-117	
75-01-4	Vinyl Chloride	202	**182**	**90**	61-127	
106-99-0	1,3-Butadiene	214	**191**	**89**	65-132	
74-83-9	Bromomethane	202	**204**	**101**	62-114	
75-00-3	Chloroethane	202	**198**	**98**	64-122	
64-17-5	Ethanol	1,020	**910**	**89**	57-131	
75-05-8	Acetonitrile	204	**179**	**88**	52-135	
107-02-8	Acrolein	214	**226**	**106**	64-124	
67-64-1	Acetone	1,080	**916**	**85**	60-113	
75-69-4	Trichlorofluoromethane	198	**199**	**101**	64-112	
67-63-0	2-Propanol (Isopropyl Alcohol)	420	**374**	**89**	62-129	
107-13-1	Acrylonitrile	208	**207**	**100**	69-133	
75-35-4	1,1-Dichloroethene	214	**210**	**98**	70-114	
75-09-2	Methylene Chloride	216	**197**	**91**	63-103	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**191**	**88**	57-135	
76-13-1	Trichlorotrifluoroethane	216	**217**	**100**	69-116	
75-15-0	Carbon Disulfide	196	**192**	**98**	66-118	
156-60-5	trans-1,2-Dichloroethene	212	**198**	**93**	69-123	
75-34-3	1,1-Dichloroethane	208	**190**	**91**	65-118	
1634-04-4	Methyl tert-Butyl Ether	212	**201**	**95**	57-125	
108-05-4	Vinyl Acetate	1,020	**1080**	**106**	69-131	
78-93-3	2-Butanone (MEK)	216	**200**	**93**	63-121	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	**192**	**90**	69-119	
141-78-6	Ethyl Acetate	428	**417**	**97**	65-129	
110-54-3	n-Hexane	210	**184**	**88**	55-116	
67-66-3	Chloroform	216	**193**	**89**	68-111	
109-99-9	Tetrahydrofuran (THF)	206	**189**	**92**	69-120	
107-06-2	1,2-Dichloroethane	210	**176**	**84**	67-117	
71-55-6	1,1,1-Trichloroethane	208	**190**	**91**	74-116	
71-43-2	Benzene	220	**196**	**89**	61-109	
56-23-5	Carbon Tetrachloride	214	**224**	**105**	76-120	
110-82-7	Cyclohexane	422	**404**	**96**	72-115	
78-87-5	1,2-Dichloropropane	212	**199**	**94**	67-119	
75-27-4	Bromodichloromethane	216	**205**	**95**	78-124	
79-01-6	Trichloroethene	208	**214**	**103**	69-115	
123-91-1	1,4-Dioxane	218	**205**	**94**	69-127	
80-62-6	Methyl Methacrylate	420	**437**	**104**	76-128	
142-82-5	n-Heptane	214	**201**	**94**	66-118	
10061-01-5	cis-1,3-Dichloropropene	226	**229**	**101**	77-124	
108-10-1	4-Methyl-2-pentanone	218	**206**	**94**	66-134	
10061-02-6	trans-1,3-Dichloropropene	216	**221**	**102**	80-130	
79-00-5	1,1,2-Trichloroethane	212	**207**	**98**	75-119	
108-88-3	Toluene	212	**214**	**101**	68-114	
591-78-6	2-Hexanone	222	**215**	**97**	60-136	
124-48-1	Dibromochloromethane	220	**249**	**113**	75-132	
106-93-4	1,2-Dibromoethane	216	**238**	**110**	72-122	
123-86-4	n-Butyl Acetate	224	**233**	**104**	60-137	

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

Client: **Environmental Management Services, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1502628
Client Project ID: **SVE Monthly In-Plant Monitoring / KUH0-15-011** ALS Sample ID: P150709-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 7/9/15
Sample Type: 1.0 L Silonite Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	208	**206**	**99**	66-120	
127-18-4	Tetrachloroethene	198	**222**	**112**	67-120	
108-90-7	Chlorobenzene	216	**230**	**106**	69-114	
100-41-4	Ethylbenzene	212	**221**	**104**	71-117	
179601-23-1	m,p-Xylenes	420	**433**	**103**	71-118	
75-25-2	Bromoform	216	**288**	**133**	76-149	
100-42-5	Styrene	218	**247**	**113**	71-128	
95-47-6	o-Xylene	206	**213**	**103**	72-118	
111-84-2	n-Nonane	204	**201**	**99**	63-123	
79-34-5	1,1,2,2-Tetrachloroethane	202	**224**	**111**	73-124	
98-82-8	Cumene	204	**219**	**107**	71-118	
80-56-8	alpha-Pinene	208	**224**	**108**	71-123	
103-65-1	n-Propylbenzene	202	**216**	**107**	71-120	
622-96-8	4-Ethyltoluene	212	**237**	**112**	71-121	
108-67-8	1,3,5-Trimethylbenzene	212	**226**	**107**	72-121	
95-63-6	1,2,4-Trimethylbenzene	210	**239**	**114**	71-122	
100-44-7	Benzyl Chloride	218	**262**	**120**	79-143	
541-73-1	1,3-Dichlorobenzene	218	**265**	**122**	67-121	**L**
106-46-7	1,4-Dichlorobenzene	212	**246**	**116**	68-121	
95-50-1	1,2-Dichlorobenzene	214	**263**	**123**	68-121	**L**
5989-27-5	d-Limonene	210	**238**	**113**	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	206	**266**	**129**	73-145	
120-82-1	1,2,4-Trichlorobenzene	210	**262**	**125**	60-135	
91-20-3	Naphthalene	196	**275**	**140**	63-142	
87-68-3	Hexachlorobutadiene	214	**276**	**129**	65-127	**L**

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.