SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

January 17, 2018

Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Attn: Mr. Robert Burgess

RE: 2017 SITE CHARACTERIZATION SUMMARY REPORT, MILLER SALVAGE, INC. PROPERTY, FAIRBANKS, ALASKA

ADEC FILE NUMBER 102.23.017

This report summarizes the results of our site characterization activities conducted in 2017 at the Miller Salvage, Inc. Property (site) located at 1407 and 1485 30th Avenue in Fairbanks, Alaska. Our activities were conducted in accordance with our October 19, 20107 *FINAL Miller Salvage, Inc. Site Characterization Work Plan* and our October 16, 2017 *Site Characterization Work Plan Addendum, Excavation Confirmation Sampling.* The work plans were approved by the Alaska Department of Conservation (ADEC), and contained a more complete description of the site and project objectives. We performed our services under our ADEC Term Contract 18-8036-13, NTP Number 180000360, dated October 6, 2017.

In October 2017, we installed and sampled 44 temporary well points (TWPs), and collected soil samples from 11 excavations at the site. We described the field activities for these sampling efforts in our October 31, 2017 *Interim Report, October 2017 Temporary Well Points and Excavation Sampling.* Below is a summary of analytical results and recommendations regarding further site characterization.

ANALYTICAL SAMPLES

We collected 44 primary and six field-duplicate analytical groundwater-samples from TWPs installed at the site on October 23-25, 2017. TWPs were installed to an approximate depth of 15

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feet below ground surface (bgs), except *TWP17-23* and *TWP17-39* which were installed to approximately 30 feet bgs (Figure 1).

We collected 32 primary and three field-duplicate analytical soil-samples on October 21-27, 2017 from excavations conducted by the National Response Corporation – Alaska (NRC) as part of the ADEC site-cleanup effort (Figure 2). Soil samples were collected based on photoionization detector (PID) field-screening results; collection depths ranged from approximately 1 to 2 feet bgs.

Analytical Methods

We submitted analytical samples to SGS Anchorage for laboratory analysis of one or more of the following contaminants of potential concern (COPCs): gasoline range organics (GRO) by Alaska (AK) Method 101; diesel range organics (DRO) by AK Method 102; residual range organics (RRO) by AK Method 103; volatile organic compounds (VOCs) by EPA Method SW 8260; poly-aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM; arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver (RCRA 8 metals) by EPA Method 6020; mercury by EPA Method 7470; ethylene dibromide (EDB) by EPA Method 8011; polychlorinated biphenyls (PCBs) by EPA Method SW 8082; and perfluoroalkyl substances (PFAS) perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) by EPA Method 537M.

Requested Analyses

We requested analysis of VOCs, GRO, DRO, and RRO for all groundwater samples collected from TWPs in October 2017. We requested analysis of PAHs, RCRA 8 metals, mercury, and EDB for a subset of 10 groundwater samples. *TWP17-22* and *TWP17-23* were also analyzed for PFOS/PFOA. Requested analyses for groundwater samples are summarized in Table 1.

We requested the following analyses for excavation confirmation soil samples collected in October 2017:

- VOCs, GRO, DRO, and RRO for all excavation confirmation soil samples collected in October 2017 except *FK-7* and *FK-8* where we did not request VOC or GRO analyses, and *CE-1* where we did not request analysis of VOCs, GRO, DRO, or RRO;
- PAHs in soil samples collected at the highest PID field-screening result in each excavation except the CE excavation;
- RCRA 8 metals in the soil samples collected at the DB and FK excavations; and
- PCBs in the soil samples collected at DB, FK, CE, and CW excavations.

Requested analyses for excavation confirmation soil-samples, and PID field-screening results are summarized in Table 2.

ANALYTICAL RESULTS SUMMARY

Multiple COPCs were detected in the groundwater and soil samples collected at the site in October 2017 (Tables 3 and 4). We compared soil-sample analytical results to ADEC's July 2017 migration-to-groundwater cleanup levels for the "Under 40 Inch Zone" (Table B1. Method Two – Soil Cleanup Levels Table, and Table B2. Method Two – Petroleum Hydrocarbon Soil Cleanup Levels, *18 AAC 75.341[c]* and *[d]*). Water-sample analytical results were compared to ADEC July 2017 groundwater cleanup levels (Table C. Groundwater Cleanup Levels, *18 AAC 75.345[b]*).

COPCs detected above the applicable ADEC cleanup levels (CLs) in groundwater samples include benzene, trichloroethene (TCE), tetrachloroethene (PCE), DRO, RRO, lead, and arsenic (Figure 1).

COPCs detected above CLs in the excavation confirmation soil samples include GRO, DRO, RRO, TCE, benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-propylbenzene, 1-methylnaphthalene, naphthalene, and arsenic (Figure 2).

Quality Assurance Review

The limit of detections (LODs) for several VOC analytes and naphthalene exceeded the soil CLs in multiple soil samples. Additionally, the LODs for 1,2,3-trichloropropane exceeded the groundwater CLs in all groundwater samples. We cannot assess if these analytes are present in the project samples at concentrations above the ADEC CLs, but below the LOD.

Further details regarding the results of our quality assurance review of analytical data are presented in the *ADEC Laboratory Data Review Checklists.* Analytical results that are considered affected by method and laboratory data-quality failures have been flagged in Tables 3 and 4. None of the data-quality failures caused the data to be considered unusable. Below is a discussion of analytical detections.

DISCUSSION

Chlorinated Solvents

TCE was detected above CLs in groundwater samples collected at locations *TWP17-18* and *TWP17-20*, and below CLs in groundwater samples collected at locations *TWP17-15, TWP17-42*, *TWP17-43*, *TWP17-44*; PCE was also detected in groundwater samples collected at locations *TWP17-42* and *TWP17-44*. Cis-1,2-dichloroethene and trans-1,2-dichloroethene (cis- and trans-DCE) were also detected below CLs in multiple groundwater samples collected at the site.

TWP17-18, TWP-17-20, and *TWP17-15* are located within 150 feet of the Friends Church on the south and southeast sides, while the remainder of the TCE detections were located on the north side of 30th Avenue. TCE was not detected at TWPs installed between these two areas. The lateral separation of detections suggests the possibility of multiple TCE sources. Not-detected results for TCE at locations surrounding *TWP17-18* and *TWP17-20* indicate that these samples may have been collected at or near a TCE source zone. Since we did not install TWPs in the anticipated upgradient direction of *TWP17-43* and *TWP17-44*, the source of PCE and TCE detected north of 30th Avenue is not known at this time.

TCE was detected above CLs in one soil sample collected at the *NCHE* excavation. PCE was detected below CLs in two samples collected at the *DB* excavation. The chlorinated solvent

detections in soil samples do not directly correlate with locations of chlorinated solvent detections in groundwater samples.

Petroleum Constituents

DRO and RRO in groundwater were detected above CLs at location *TWP17-18*. Benzene was detected above CLs in groundwater samples collected at locations *TWP17-25, TWP17-28,* and below CLs in groundwater samples collected at locations *TWP17-13, TWP17-16, TWP17-24, TWP17-30, TWP17-31, TWP17-36, and TWP17-37*. The lateral separation of benzene detections, with non-detect results between, indicates multiple benzene source areas may be present.

Petroleum constituent results exceeding CLs in excavation confirmation soil-samples include:

- DRO and RRO at the *Loader* excavation;
- GRO, DRO, benzene, toluene, and 1,2,4-trimethylbenzene at the *NCHE* excavation;
- DRO at the *NCHS* excavation;
- GRO, DRO, benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; isopropylbenzene; n-propylbenzene, and naphthalene at the *NCHW* excavation;
- GRO, DRO, benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; isopropylbenzene; n-propylbenzene, naphthalene, and 1-methylnapthalene at the *FK* excavation; and
- DRO and 1,2,4-trimethylbenzene at the *DB* excavation.

The petroleum-related soil contamination in the area of the *NCHE, NCHW*, and *NCHS* excavations may be a contributing factor to the benzene CL exceedances in groundwater sampled at *TWP17-25*, *TWP17-28*, and DRO and RRO exceedances at *TWP17-25*; the area was purportedly used for fuel handling historically.

Metals

We requested analysis of RCRA 8 metals at 10 TWP locations. Lead was detected above CLs in groundwater samples collected at *TWP17-7* and *TWP17-29*. Arsenic was detected above CLs in groundwater samples collected at all 10 locations where metals analysis was requested. The other RCRA 8 metals were not detected above cleanup levels in groundwater.

Arsenic is a naturally occurring metal found in soil and groundwater throughout Alaska. We compared the arsenic detections in project samples to background levels of arsenic published in *Background Data Analysis for Arsenic, Barium, Cadmium, Chromium, and Lead on Fort Wainwright, Alaska*, a study conducted by the United States Army Corps of Engineers (USACE).

The 1994 USACE study at Fort Wainwright estimated mean background concentrations of arsenic in soil and groundwater at 8.46 mg/kg and 36.24 ug/L, respectively. In the 58 soil and 159 groundwater samples analyzed for the study, arsenic detections in soil ranged from 0.135 mg/kg to 29 mg/kg and detections in groundwater ranged from 1 ug/L to 230 ug/L. Arsenic concentrations in soil and groundwater samples collected at the Miller Salvage site ranged from 7.12 mg/kg to 14.7 mg/kg and 9.3 ug/L to 27.9 ug/L, respectively. Based on this information and the results of the USACE study, we believe that the arsenic concentrations measured in analytical samples collected at the site are consistent with naturally occurring background levels.

PCBs

PCB analyte Aroclor-1260 was detected below CLs in two samples collected at the *CW* excavation; the excavation was conducted at the location of a capacitor that was removed during cleanup.

PFAS

We requested analysis of PFOS and PFOA only at locations *TWP17-22* and *TWP17-23*. PFOA was detected below CLs at *TWP17-22* and *TWP17-23*, PFOS was not detected above the LOD.

CONCLUSIONS AND RECOMMENDATIONS

Based on the limited, preliminary, site-characterization sampling of soil and groundwater at the site in October 2017, we present the following conclusions and recommendations. We will coordinate with ADEC to determine site-characterization activities for 2018.

Groundwater

The majority of the TWPs were installed on the western borders of the two site parcels, and near the north extent of the site. These locations were selected to evaluate groundwater quality at the site, with an emphasis on investigating the possible migration of contaminants in groundwater to receptors at Friends Church and offsite populations. Lead was detected at *TWP17-29* at a concentration of 54.8 ug/L, and was the only COPC in groundwater detected above CLs along the site boundary. We recommend further characterization of groundwater near the northwest corner of the site to evaluate potential migration of lead contaminated groundwater to offsite receptors.

The benzene and chlorinated solvents detected in *TWP17-18*, *TWP17-20*, and *TWP17-25*, and *TWP17- 28* indicate a possible vapor intrusion risk at Friends Church. We recommend installing additional TWPs at locations to the east and south of Friends Church to characterize groundwater quality between areas of known contamination and the building structure.

Additionally, we recommend further characterization of groundwater near the northeast corner of the site to investigate possible source areas for the chlorinated solvent detections north of 30th Avenue.

Soil

Excavation activities conducted in 2017 did not completely remove or delineate the extent of contaminated soil at the excavation areas. Excavation confirmation soil samples were collected after NRC had completed the excavations, and analytical results represent contaminant concentrations remaining at the sample locations. We recommend delineating the contamination remaining at the excavation areas, prioritizing delineation of the VOC contaminated soil near the *NCHW* and *NCHE* excavations due to the potential for vapor intrusion at Friends Church.

Additionally, excavations conducted at the site targeted areas of suspected contamination based on field observations made during the cleanup effort. We note that historical aerial photos indicate salvage-yard use over the entirety of the two parcels that comprise the site, suggesting that additional areas could be impacted. We recommend a more complete investigation of soil contamination across the site as a secondary objective to delineating areas of known contamination.

Air

We are currently developing an indoor air sampling plan in coordination with ADEC to assess air quality at Friends Church. We note that the indoor air sample results may not fully characterize the potential vapor intrusion risk at Friends Church due to seasonal fluctuations in vaporization and building infiltration parameters, but will provide data regarding current indoor air quality and potential hazards to building inhabitants. We recommend conducting the soil and groundwater characterization activities described above regardless of indoor air sample results.

Please call me at 458-3149 if you have questions.

Sincerely,

SHANNON & WILSON, INC.

Andrew Frick
Environmental Scientist

Enc: Figure 1 – October 2017 Analytical Groundwater Sample Results Summary
Figure 2 – October 2017 Analytical Soil Sample Results Summary
Table 1 – October 2017 Groundwater Analyses Summary
Table 2 – October 2017 Soil Analyses Summary
Table 3 – October 2017 Groundwater Samples Analytical Results Summary
Table 4 – October 2017 Analytical Soil-Samples Results Summary
SGS Work Orders 1178553, 1178562, 1178572, and 1178686
ADEC Data Review Checklists
Information about your Environmental Site Assessment/Evaluation Report

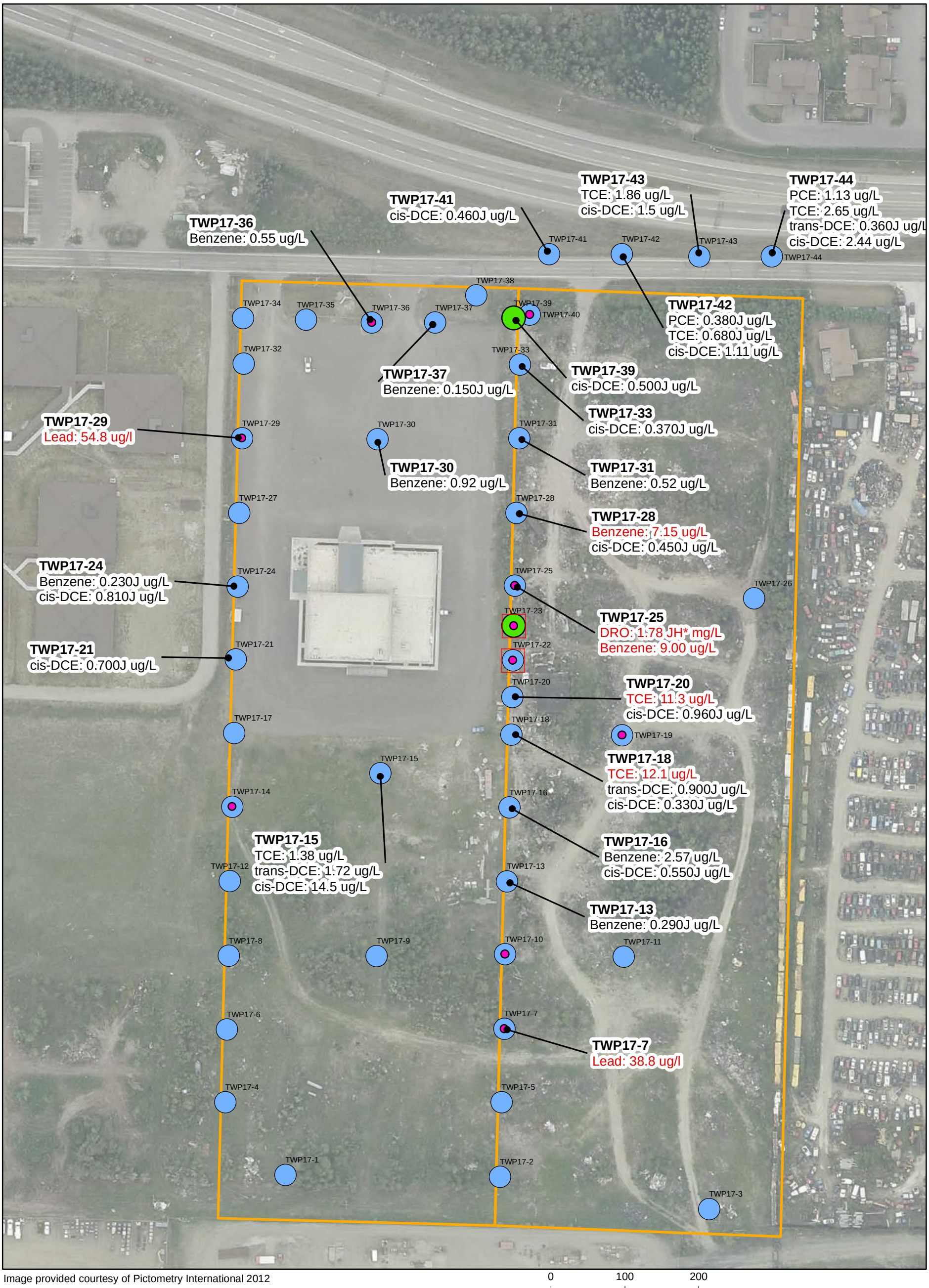

Image provided courtesy of Pictometry International 2012

0 100 200

Feet

LEGEND

- TWPs Installed to Approximately 15 feet bgs
- TWPs Installed to Approximately 30 feet bgs
- PAHs, Mercury, Metals, EDB Analyses Requested
- PFAS Analysis Requested

N

Notes:
VOCs, GRO, DRO, and RRO analyses requested at all locations.
Red Text: result exceeds ADEC Groundwater-Cleanup Level from18 AAC 75.345, Table C.3
All detectable results for benzene and chlorinated solvents are presented.
Arsenic results above ADEC cleanup levels have been omitted; results are consistent with naturally occurring background levels.

Miller Salvage, Inc. Property
Fairbanks, Alaska

OCTOBER 2017 ANALYTICAL GROUNDWATER SAMPLE RESULTS SUMMARY

January 2018 31-1-20056-010

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Figure 1

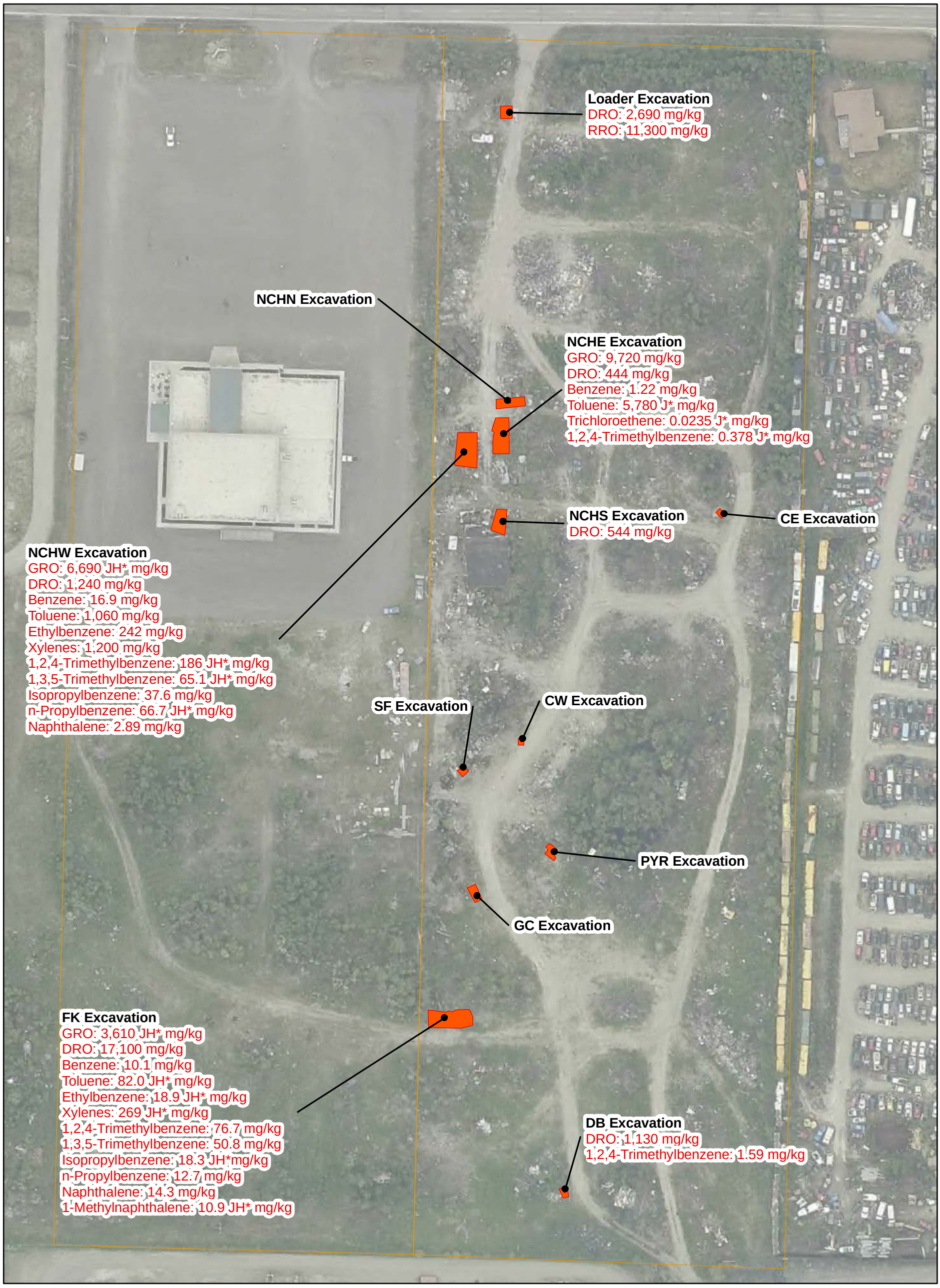

Image provided courtesy of Pictometry International 2012.

LEGEND

Excavations

Property Boundaries

0 100 200

Feet

N

Notes:
Red Text: result exceeds ADEC Soil-Cleanup Level from 18 AAC 75.340 Table B1. Method Two - Migration to Groundwater and Table B2. Method Two - Under 40 Inch Zone - Migration to Groundwater.
Refer to analytical results table for all reported analytical results, abbreviations, and flag definitions,
Arsenic results above ADEC cleanup levels have been omitted; results are consistent with naturally occurring background levels.

Miller Salvage, Inc. Property
Fairbanks, Alaska

OCTOBER 2017 ANALYTICAL SOIL SAMPLE RESULTS SUMMARY

January 2018 31-1-20056-010

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 2

TABLE 1
OCTOBER 2017 GROUNDWATER ANALYSES SUMMARY
MILLER SALVAGE INC, PROPERTY

Sample Name	Sample Date	Analyses						Comments
		VOCs, GRO, DRO, RRO	PAH	RCRA 8 Metals	Mercury	EDB	PFOS/PFOA	
TWP17-1	10/25/2017	x						
TWP17-101	10/25/2017	x						Field duplicate of TWP17-1
TWP17-2	10/24/2017	x						
TWP17-3	10/24/2017	x						
TWP17-4	10/25/2017	x						
TWP17-5	10/24/2017	x						
TWP17-6	10/25/2017	x						
TWP17-106	10/25/2017	x						Field duplicate of TWP17-6
TWP17-7	10/24/2017	x	x	x	x	x		
TWP17-8	10/25/2017	x						
TWP17-9	10/25/2017	x						
TWP17-10	10/24/2017	x	x	x	x	x		
TWP17-11	10/24/2017	x						
TWP17-12	10/25/2017	x						
TWP17-13	10/24/2017	x						
TWP17-14	10/23/2017	x	x	x	x	x		
TWP17-15	10/25/2017	x						
TWP17-16	10/24/2017	x						
TWP17-17	10/25/2017	x						
TWP17-18	10/24/2017	x						
TWP17-19	10/24/2017	x	x	x	x	x		
TWP17-20	10/24/2017	x						
TWP17-21	10/25/2017	x						
TWP17-22	10/23/2017	x	x	x	x	x	x	
TWP17-122	10/23/2017						x	Field duplicate of TWP17-22 (PFAS analysis only)
TWP17-23	10/25/2017	x	x	x	x	x	x	
TWP17-24	10/23/2017	x						
TWP17-25	10/25/2017	x	x	x	x	x		
TWP17-125	10/25/2017	x						Field duplicate of TWP17-22 (VOC, GRO, DRO, and RRO analyses only)
TWP17-26	10/24/2017	x						
TWP17-126	10/24/2017	x						Field duplicate of TWP17-26
TWP17-27	10/25/2017	x						
TWP17-28	10/23/2017	x						
TWP17-29	10/23/2017	x	x	x	x	x		
TWP17-30	10/23/2017	x						
TWP17-31	10/24/2017	x						

TABLE 1
OCTOBER 2017 GROUNDWATER ANALYSES SUMMARY
MILLER SALVAGE INC, PROPERTY

Sample Name	Sample Date	Analyses						Comments
		VOCs, GRO, DRO, RRO	PAH	RCRA 8 Metals	Mercury	EDB	PFOS/PFOA	
TWP17-32	10/25/2017	x						
TWP17-33	10/25/2017	x						
TWP17-34	10/25/2017	x						
TWP17-35	10/25/2017	x						
TWP17-36	10/25/2017	x	x	x	x	x		
TWP17-37	10/25/2017	x						
TWP17-38	10/25/2017	x						
TWP17-39	10/25/2017	x						
TWP17-40	10/23/2017	x	x	x	x	x		
TWP17-140	10/23/2017	x	x	x	x	x		Field duplicate of TWP17-140
TWP17-41	10/25/2017	x						
TWP17-42	10/23/2017	x						
TWP17-43	10/25/2017	x						
TWP17-44	10/25/2017	x						

Notes:

x Analysis requested

TABLE 2
OCTOBER 2017 SOIL ANALYSES SUMMARY
MILLER SALVAGE INC, PROPERTY

Sample Name	Sample Date	PID Reading (ppm)	Analyses					Comments
			VOCs, GRO	DRO, RRO	PAH	RCRA 8 Metals	PCBs	
DB-1	10/20/2017	804	x	x	x	x	x	
DB-2	10/20/2017	32	x	x		x	x	
FK-1	10/21/2017	2,328	x	x	x	x	x	
FK-11	10/21/2017	dup	x	x	x	x	x	Field duplicate of FK-1
FK-2	10/21/2017	2,318	x	x		x	x	
FK-3	10/21/2017	791	x	x		x	x	
FK-4	10/21/2017	621	x	x		x	x	
FK-5	10/21/2017	451	x	x		x	x	
FK-6	10/21/2017	116	x	x		x	x	
FK-7	10/21/2017	47		x		x	x	Approximate vicinity of Drum 70.
FK-8	10/21/2017	35		x		x	x	Approximate vicinity of Drum 28.
CW-1	10/21/2017	20	x	x	x		x	
CW-2	10/21/2017	17					x	
GC-1	10/21/2017	28	x	x				
GC-2	10/21/2017	30	x	x	x			
PYR-1	10/21/2017	16	x	x				
PYR-2	10/21/2017	18	x	x	x			
SF-1	10/21/2017	19	x	x				
SF-2	10/21/2017	22	x	x	x			
CE-1	10/21/2017	16	x	x				
NCHS-1	10/22/2017	21	x	x	x			
NCHS-2	10/22/2017	10	x	x				
NCHS-3	10/22/2017	10	x	x				
NCHW-1	10/22/2017	3,245	x	x	x			
NCHW-2	10/22/2017	4,674	x	x				
NCHW-12	10/22/2017	dup	x	x				Field duplicate of NCHW-2
NCHE-1	10/27/2017	>15,000	x	x	x			
NCHE-11	10/27/2017	dup	x	x	x			Field duplicate of NCHE-1
NCHE-2	10/27/2017	>15,000	x	x				
NCHE-3	10/27/2017	6,377	x	x				
NCHE-4	10/27/2017	6,964	x	x				
NCHN-1	10/27/2017	11	x	x	x			
NCHN-2	10/27/2017	10	x	x				
Loader-1	10/27/2017	112	x	x	x			
Loader-2	10/27/2017	98	x	x				

Notes:

x Analysis requested

TABLE 3
OCTOBER 2017 ANALYTICAL GROUNDWATER-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level†	Units	TWP17-1	TWP17-101	TWP17-2	TWP17-3	TWP17-4	TWP17-5	TWP17-6	TWP17-106	TWP17-7	TWP17-8	TWP17-9	TWP17-10	TWP17-11	TWP17-12	TWP17-13	TWP17-14
AK101	Gasoline Range Organics	2.2	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK102	Diesel Range Organics	1.5	mg/L	<0.588 B*	ND	ND	ND	ND	<0.566 B*	0.220 J	ND	ND	0.213 J	0.212 J	ND	ND	0.416 J	ND	ND
AK103	Residual Range Organics	1.1	mg/L	<0.490 B*	ND	<0.472 B*	<0.508 B*	0.221 J	<0.472 B*	ND	0.160 J	<0.472 B*	0.250 J	0.230 J	0.156 J	<0.481 B*	0.535	<0.490 B*	0.147 J
SW8260C (VOC)	1,1-Dichloroethane	28	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.0075	µg/L	ND	ND	ND	ND	**<0.500**	**ND**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**ND**	**<0.500**	**<0.500**	**<0.500**
	1,2,4-Trimethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	1.7	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	4.6	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.290 J	ND
	Bromomethane	7.5	µg/L	ND	ND	<2.50 J*	<2.50 J*	ND	<2.50 J*	ND	ND	<2.50 J*	ND	ND	ND	<2.50 J*	ND	<2.50 J*	ND
	Chloromethane	190	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	36	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane	200	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	41	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	360	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	4.7	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	2.8	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	5200	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA 537 MOD (PFAS)	Perfluorooctoanoic acid	400	ng/L	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Perfluorooctanesulfonic acid	400	ng/L	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SW6020A	Arsenic	0.52	µg/L	—	—	—	—	—	—	—	—	**27.9**	—	—	**14.5**	—	—	—	**16.9**
	Barium	3800	µg/L	—	—	—	—	—	—	—	—	456	—	—	149	—	—	—	69.2
	Cadmium	9.2	µg/L	—	—	—	—	—	—	—	—	0.781 J	—	—	ND	—	—	—	ND
	Chromium	22,000	µg/L	—	—	—	—	—	—	—	—	155	—	—	ND	—	—	—	ND
	Lead	15	µg/L	—	—	—	—	—	—	—	—	**38.8**	—	—	1.16	—	—	—	0.371 J
	Mercury	0.52	µg/L	—	—	—	—	—	—	—	—	0.143 J	—	—	ND	—	—	—	ND

TABLE 3
OCTOBER 2017 ANALYTICAL GROUNDWATER-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level†	Units	TWP17-15	TWP17-16	TWP17-17	TWP17-18	TWP17-19	TWP17-20	TWP17-21	TWP17-22	TWP17-122	TWP17-23	TWP17-24	TWP17-25	TWP17-125	TWP17-26	TWP17-126
AK101	Gasoline Range Organics	2.2	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	0.0594 J	0.0604 J	ND	ND
AK102	Diesel Range Organics	1.5	mg/L	<0.600 B*	0.744	ND	0.423 J	ND	ND	0.286 J	0.231 J	—	<0.566 B*	0.270 J	**1.78 JH***	**1.75 JH***	0.356 J	0.266 J
AK103	Residual Range Organics	1.1	mg/L	<0.500 B*	0.706	0.198 J	<0.481 B*	<0.481 B*	<0.472 B*	0.415 J	0.186 J	—	<0.472 B*	0.234 J	**<1.55 B***	**<1.68 B***	<0.500 B*	<0.481 B*
SW8260C (VOC)	1,1-Dichloroethane	28	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	0.950 J	0.900 J	ND	ND
	1,2,3-Trichloropropane	0.0075	µg/L	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	—	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**
	1,2,4-Trimethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	0.350 J	0.370 J	ND	ND
	1,2-Dichloroethane	1.7	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	0.330 J	0.270 J	ND	ND
	Benzene	4.6	µg/L	ND	2.57	ND	ND	ND	ND	ND	ND	—	ND	0.230 J	**9.00**	**8.69**	ND	ND
	Bromomethane	7.5	µg/L	<2.50 J*	ND	ND	<2.50 J*	<2.50 J*	<2.50 J*	ND	ND	—	ND	ND	ND	ND	<2.50 J*	<2.50 J*
	Chloromethane	190	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	36	µg/L	14.5	0.550 J	ND	0.330 J	ND	0.960 J	0.700 J	ND	—	ND	0.810 J	ND	ND	ND	ND
	Dichlorodifluoromethane	200	µg/L	ND	ND	1.52	ND	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
	Ethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	0.340 J	0.330 J	ND	ND
	Tetrachloroethene	41	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	360	µg/L	1.72	ND	ND	0.900 J	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	4.7	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
	Trichloroethene	2.8	µg/L	1.38	ND	ND	**12.1**	ND	**11.3**	ND	ND	—	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	5200	µg/L	ND	ND	1.29	ND	ND	ND	ND	ND	—	ND	ND	ND	ND	ND	ND
EPA 537 MOD (PFAS)	Perfluorooctoanoic acid	400	ng/L	—	—	—	—	—	—	—	7.87 J	8.50 J	6.41 J	—	—	—	—	—
	Perfluorooctanesulfonic acid	400	ng/L	—	—	—	—	—	—	—	<17.0 B*	<17.0 B*	<17.0 B*	—	—	—	—	—
SW6020A	Arsenic	0.52	µg/L	—	—	—	—	**20.6**	—	—	**9.30**	—	**15.7**	—	**12.4**	—	—	—
	Barium	3800	µg/L	—	—	—	—	137	—	—	99.6	—	320	—	197	—	—	—
	Cadmium	9.2	µg/L	—	—	—	—	ND	—	—	ND	—	ND	—	ND	—	—	—
	Chromium	22,000	µg/L	—	—	—	—	ND	—	—	8.83	—	35.3	—	8.73	—	—	—
	Lead	15	µg/L	—	—	—	—	0.829 J	—	—	2.43	—	6.41	—	1.20	—	—	—
	Mercury	0.52	µg/L	—	—	—	—	ND	—	—	ND	—	ND	—	ND	—	—	—

TABLE 3
OCTOBER 2017 ANALYTICAL GROUNDWATER-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level†	Units	TWP17-27	TWP17-28	TWP17-29	TWP17-30	TWP17-31	TWP17-32	TWP17-33	TWP17-34	TWP17-35	TWP17-36	TWP17-37	TWP17-38	TWP17-39	TWP17-40	TWP17-140
AK101	Gasoline Range Organics	2.2	mg/L	ND	0.0343 J	ND	ND	ND	ND	ND	ND	ND	0.0678 J	ND	0.0640 J	ND	0.0479 J	ND
AK102	Diesel Range Organics	1.5	mg/L	<0.588 B*	0.729	0.324 J	0.464 J	0.426 J	0.171 J	ND	ND	<0.577 B*	<0.577 B*	ND	ND	<0.566 B*	ND	ND
AK103	Residual Range Organics	1.1	mg/L	<0.586 B*	0.608	0.402 J	0.428 J	<0.490 B*	0.226 J	0.193 J	0.252 J	<0.481 B*	<0.526 B*	0.267 J	0.203 J	<0.472 B*	ND	0.161 J
SW8260C (VOC)	1,1-Dichloroethane	28	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.0075	µg/L	**ND**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**
	1,2,4-Trimethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	1.7	µg/L	ND	0.240 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	4.6	µg/L	ND	**7.15**	ND	0.920	0.520	ND	ND	ND	ND	0.550	0.150 J	ND	ND	ND	ND
	Bromomethane	7.5	µg/L	ND	ND	ND	ND	<2.50 J*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	190	µg/L	ND	0.770 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	36	µg/L	ND	0.450 J	ND	ND	ND	ND	0.370 J	ND	ND	ND	ND	ND	0.500 J	ND	ND
	Dichlorodifluoromethane	200	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	15	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	41	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	360	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	4.7	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene	2.8	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	5200	µg/L	ND	ND	5.19	0.500 J	ND	1.60	ND	9.27	9.80	9.95	4.65	ND	ND	ND	ND
EPA 537 MOD (PFAS)	Perfluorooctoanoic acid	400	ng/L	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Perfluorooctanesulfonic acid	400	ng/L	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SW6020A	Arsenic	0.52	µg/L	—	—	**22.9**	—	—	—	—	—	—	**17.6**	—	—	—	**23.5**	**25.7**
	Barium	3800	µg/L	—	—	147	—	—	—	—	—	—	182	—	—	—	184	192
	Cadmium	9.2	µg/L	—	—	ND	—	—	—	—	—	—	ND	—	—	—	ND	ND
	Chromium	22,000	µg/L	—	—	4.05	—	—	—	—	—	—	9.63	—	—	—	ND	ND
	Lead	15	µg/L	—	—	**54.8**	—	—	—	—	—	—	2.81	—	—	—	0.440 J	0.427 J
	Mercury	0.52	µg/L	—	—	ND	—	—	—	—	—	—	ND	—	—	—	ND	ND

TABLE 3
OCTOBER 2017 ANALYTICAL GROUNDWATER-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level†	Units	TWP17-41	TWP17-42	TWP17-43	TWP17-44
AK101	Gasoline Range Organics	2.2	mg/L	ND	ND	ND	0.0535 J
AK102	Diesel Range Organics	1.5	mg/L	0.430 J	ND	0.573	0.193 J
AK103	Residual Range Organics	1.1	mg/L	0.263 J	0.188 J	0.257 J	0.259 J
SW8260C (VOC)	1,1-Dichloroethane	28	µg/L	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.0075	µg/L	**<0.500**	**<0.500**	**<0.500**	**<0.500**
	1,2,4-Trimethylbenzene	15	µg/L	ND	ND	ND	ND
	1,2-Dichloroethane	1.7	µg/L	ND	ND	ND	ND
	Benzene	4.6	µg/L	ND	ND	ND	ND
	Bromomethane	7.5	µg/L	ND	ND	ND	ND
	Chloromethane	190	µg/L	ND	ND	ND	ND
	cis-1,2-Dichloroethene	36	µg/L	0.460 J	1.11	1.50	2.44
	Dichlorodifluoromethane	200	µg/L	ND	ND	ND	ND
	Ethylbenzene	15	µg/L	ND	ND	ND	ND
	Tetrachloroethene	41	µg/L	ND	0.380 J	ND	1.13
	trans-1,2-Dichloroethene	360	µg/L	ND	ND	ND	0.360 J
	trans-1,3-Dichloropropene	4.7	µg/L	ND	ND	ND	ND
	Trichloroethene	2.8	µg/L	ND	0.680 J	1.86	2.65
	Trichlorofluoromethane	5200	µg/L	ND	ND	ND	ND
EPA 537 MOD (PFAS)	Perfluorooctoanoic acid	400	ng/L	—	—	—	—
	Perfluorooctanesulfonic acid	400	ng/L	—	—	—	—
SW6020A	Arsenic	0.52	µg/L	—	—	—	—
	Barium	3800	µg/L	—	—	—	—
	Cadmium	9.2	µg/L	—	—	—	—
	Chromium	22,000	µg/L	—	—	—	—
	Lead	15	µg/L	—	—	—	—
	Mercury	0.52	µg/L	—	—	—	—

Notes:

Analytical results reported from SGS laboratory reports 1178553 and 1178562.
Sample *TWP17-101* is a field-duplicate of sample *TWP17-1* . Sample TWP17-106 is a field-duplicate of sample TWP17-6. Sample TWP17-122 is a field-duplicate of sample TWP17-22. Sample TWP17-125 is a field-duplicate of sample TWP17-25. Sample TWP17-126 is a field-duplicate of sample TWP17-26. Sample TWP17-140 is a field-duplicate of sample TWP17-40.

† ADEC Groundwater-Cleanup Levels from 18 AAC 75.345, Table C.
ADEC Alaska Department of Environmental Conservation
VOCs volatile organic compounds
PAHs polynuclear aromatic hydrocarbons
PFAS Per- and polyfluoroalkyl substances
mg/L milligrams per liter
µg/L micrograms per liter
ng/L nanograms per liter
ND Analyte not detected.
<Bold Limt of detection (LOD) exceeds regulatory limit.
< LOD flagged, or result flagged non-detect due to quality-control failures.
J Estimated concentration, detected greater than the detection limit (DL) and less than the limit of quantitation (LOQ) or RL. Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson, Inc.
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson, Inc.
B* Result is considered not detected due to quality control failures; see checklist for details. Flag applied by Shannon & Wilson, Inc.
— Not applicable; analysis not requested.
Bold Detected concentration exceeds regulatory limit.

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*CE-1*	*CW-1*	*CW-2*	*DB-1*	*DB-2*	*FK-1*	*FK-11*	*FK-2*	*FK-3*	*FK-4*	*FK-5*	*FK-6*
AK101	Gasoline Range Organics	300	mg/kg	ND	<2.77 B*	—	4.85 JH*	<3.97 B*	139 JH*	194 JH*	**3,610 JH***	41.9 JH*	<3.45 B*	<4.27 B*	ND
AK102	Diesel Range Organics	250	mg/kg	12.8 J	48.2	—	**278**	**1,130**	**17,100**	**15,400**	**7,520**	**1,830**	74.9	28.7	26.3
AK103	Residual Range Organics	11,000	mg/kg	80.6	250	—	938	1300	345 J	312 J	518	424	177	163	182
SW8260C (VOCs)	1,1,1,2-Tetrachloroethane	0.022	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.203**	ND	ND	ND	ND
	1,1,1-Trichloroethane	32	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	0.003	mg/kg	**<0.0121**	**<0.00695**	—	**<0.00810**	**<0.00710**	**<0.00995**	**<0.0113**	**<0.0253**	**<0.00880**	**<0.00780**	**<0.0107**	**<0.0121**
	1,1,2-Trichloroethane	0.0014	mg/kg	**<0.00965**	**<0.00555**	—	**<0.00650**	**<0.00570**	**<0.00795**	**<0.00905**	**<0.101**	**<0.00705**	**<0.00620**	**<0.00855**	**<0.00970**
	1,1-Dichloroethane	0.092	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	1.2	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropene	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene	0.15	mg/kg	ND	ND	—	<0.0325 J*	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.000031	mg/kg	**<0.0240**	**<0.0138**	—	**<0.0163**	**<0.0142**	**<0.0199**	**<0.0227**	**<0.0505**	**<0.0176**	**<0.0156**	**<0.0214**	**<0.0242**
	1,2,4-Trichlorobenzene	0.082	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	0.16	mg/kg	ND	ND	—	ND	**1.59**	ND	ND	**76.7**	**0.729**	0.0775	ND	ND
	1,2-Dibromo-3-chloropropane	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	0.00024	mg/kg	**<0.00965**	**<0.00555**	—	**<0.00650**	**<0.00570**	**<0.00795**	**<0.00905**	**<0.101**	**<0.00705**	**<0.00620**	**<0.00855**	**<0.00970**
	1,2-Dichlorobenzene	2.4	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	0.0055	mg/kg	**<0.00965**	**<0.00555**	—	**<0.00650**	**<0.00570**	**<0.00795**	**<0.00905**	**<0.0203**	**<0.00705**	**<0.00620**	**<0.00855**	**<0.00970**
	1,2-Dichloropropane	0.016	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0203**	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	1.3	mg/kg	ND	ND	—	ND	0.502	**4.56**	**6.87**	**50.8**	0.333	0.0781	ND	ND
	1,3-Dichlorobenzene	2.3	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	0.037	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0505**	ND	ND	ND	ND
	2,2-Dichloropropane	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone (MEK)	15	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Chlorotoluene	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	0.11	mg/kg	ND	ND	—	ND	ND	ND	ND	**<1.01**	ND	ND	ND	ND
	4-Chlorotoluene	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-pentanone (MIBK)	18	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	0.022	mg/kg	ND	<0.00695 B*	—	ND	ND	<0.00995 J*	**<0.0113 B***	**10.1**	ND	ND	<0.0107 B*	ND
	Bromobenzene	0.36	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NA	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	0.0043	mg/kg	**<0.0240**	**<0.0138**	—	**<0.0163**	**<0.0142**	**<0.0199**	**<0.0227**	**<0.0505**	**<0.0176**	**<0.0156**	**<0.0214**	**<0.0242**
	Bromoform	0.1	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.253**	ND	ND	ND	ND
	Bromomethane	0.024	mg/kg	**<0.193**	**<0.111**	—	**<0.130**	**<0.114**	**<0.160**	**<0.181**	**<0.405**	**<0.141**	**<0.125**	**<0.171**	**<0.194**
	Carbon disulfide	2.9	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon tetrachloride	0.021	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0253**	ND	ND	ND	ND
	Chlorobenzene	0.46	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	72	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	0.0071	mg/kg	**<0.0240**	**<0.0138**	—	**<0.0163**	**<0.0142**	**<0.0199**	**<0.0227**	**<0.0505**	**<0.0176**	**<0.0156**	**<0.0214**	**<0.0242**
	Chloromethane	0.61	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	0.12	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	0.018	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0253**	ND	ND	ND	ND
	Dibromochloromethane	0.0027	mg/kg	**<0.0240**	**<0.0138**	—	**<0.0163**	**<0.0142**	**<0.0199**	**<0.0227**	**<0.253**	**<0.0176**	**<0.0156**	**<0.0214**	**<0.0242**
	Dibromomethane	0.025	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0505**	ND	ND	ND	ND
	Dichlorodifluoromethane	3.9	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*FK-7*	*FK-8*	*GC-1*	*GC-2*	*Loader-1*	*Loader-2*	*NCHE-1*	*NCHE-11*	*NCHE-2*	*NCHE-3*	*NCHE-4*	*NCHN-1*
AK101	Gasoline Range Organics	300	mg/kg	—	—	<1.30 B*	ND	ND	ND	**631 J***	**6,810 J***	**9,720**	37.5	12.4 JL*	ND
AK102	Diesel Range Organics	250	mg/kg	36.5	59.5	ND	ND	**2,690**	76.7	**444**	**269**	249	130	22.2 J	100
AK103	Residual Range Organics	11,000	mg/kg	262	307	26.0	18.3 J	**11,300**	383	2,220 J*	1,240 J*	3,120	545	155	1010
SW8260C (VOCs)	1,1,1,2-Tetrachloroethane	0.022	mg/kg	—	—	ND	ND	ND	ND	**<12.9**	**<14.7**	**<12.7**	**<0.600**	**<0.585**	ND
	1,1,1-Trichloroethane	32	mg/kg	—	—	ND	ND	ND	ND	ND	0.0121 J	0.0267 J	ND	ND	ND
	1,1,2,2-Tetrachloroethane	0.003	mg/kg	—	—	**<0.00326**	**<0.00345**	**<0.00825**	**<0.0120**	**<0.00805**	**<0.00920**	**<0.00795**	**<0.00750**	**<0.00730**	**<0.00840**
	1,1,2-Trichloroethane	0.0014	mg/kg	—	—	**<0.00261**	**<0.00276**	**<0.00660**	**<0.00955**	**<6.45**	**<7.35**	**<6.35**	**<0.299**	**<0.291**	**<0.00670**
	1,1-Dichloroethane	0.092	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	1.2	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropene	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene	0.15	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.000031	mg/kg	—	—	**<0.00650**	**<0.00690**	**<0.0165**	**<0.0239**	**<0.0161**	**<0.0184**	**<0.0159**	**<0.0150**	**<0.0146**	**<0.0168**
	1,2,4-Trichlorobenzene	0.082	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	0.16	mg/kg	—	—	ND	ND	ND	ND	**0.378 J***	0.115 J*	0.0845	0.0461 J	0.0192 JH*	ND
	1,2-Dibromo-3-chloropropane	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	0.00024	mg/kg	—	—	**<0.00261**	**<0.00276**	**<0.00660**	**<0.00955**	**<6.45**	**<7.35**	**<6.35**	**<0.299**	**<0.291**	**<0.00670**
	1,2-Dichlorobenzene	2.4	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	0.0055	mg/kg	—	—	ND	ND	**<0.00660**	**<0.00955**	**<0.00645**	**<0.00735**	**<0.00635**	**<0.00600**	**<0.00585**	**<0.00670**
	1,2-Dichloropropane	0.016	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	1.3	mg/kg	—	—	ND	ND	ND	ND	0.142 J*	0.0404 J*	0.0298 J	0.0177 J	ND	ND
	1,3-Dichlorobenzene	2.3	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	0.037	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2,2-Dichloropropane	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone (MEK)	15	mg/kg	—	—	ND	ND	ND	ND	0.134 J	0.127 J	0.172 J	ND	ND	ND
	2-Chlorotoluene	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	0.11	mg/kg	—	—	ND	ND	ND	ND	**<64.5**	**<73.5**	**<63.5**	**<3.00**	**<2.92**	ND
	4-Chlorotoluene	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-pentanone (MIBK)	18	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	0.022	mg/kg	—	—	<0.00326 B*	ND	ND	<0.0120 B*	**0.338 J***	**0.670 J***	**1.22**	<0.00750 B*	<0.00730 B*	ND
	Bromobenzene	0.36	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NA	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	0.0043	mg/kg	—	—	**<0.00650**	**<0.00690**	**<0.0165**	**<0.0239**	**<0.0161**	**<0.0184**	**<0.0159**	**<0.0150**	**<0.0146**	**<0.0168**
	Bromoform	0.1	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	**<15.9**	**<0.750**	**<0.730**	ND
	Bromomethane	0.024	mg/kg	—	—	**<0.0520**	**<0.0550**	**<0.132**	**<0.191**	**<0.129**	**<0.147**	**<0.127**	**<0.120**	**<0.117**	**<0.135**
	Carbon disulfide	2.9	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon tetrachloride	0.021	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	0.46	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	**<15.9**	**<0.750**	**<0.730**	ND
	Chloroethane	72	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	0.0071	mg/kg	—	—	ND	ND	**<0.0165**	**<0.0239**	**<0.0161**	**<0.0184**	**<0.0159**	**<0.0150**	**<0.0146**	**<0.0168**
	Chloromethane	0.61	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	0.12	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	0.018	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	0.0027	mg/kg	—	—	**<0.00650**	**<0.00690**	**<0.0165**	**<0.0239**	**<16.1**	**<18.4**	**<15.9**	**<0.750**	**<0.730**	**<0.0168**
	Dibromomethane	0.025	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane	3.9	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
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MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*NCHN-2*	*NCHS-1*	*NCHS-2*	*NCHS-3*	*NCHW-1*	*NCHW-2*	*NCHW-12*	*PYR-1*	*PYR-2*	*SF-1*	*SF-2*
AK101	Gasoline Range Organics	300	mg/kg	ND	<4.07 B*	<3.57 B*	<1.87 J*	**6,690 JH***	**2,090 JH***	**1,170 JH***	<2.08 B*	ND	<1.75 B*	<4.99 B*
AK102	Diesel Range Organics	250	mg/kg	36.3	**544**	234	166	**1,240**	86.2 J*	204 J*	88.6	8.15 J	14.3 J	31.8
AK103	Residual Range Organics	11,000	mg/kg	306	994	362	558	1,200	135	115	1,170	72.1	76.1	227
SW8260C (VOCs)	1,1,1,2-Tetrachloroethane	0.022	mg/kg	ND	ND	ND	ND	**<1.38**	ND	**<1.46**	ND	ND	ND	ND
	1,1,1-Trichloroethane	32	mg/kg	ND	ND	ND	ND	0.0320 J	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	0.003	mg/kg	**<0.0100**	**<0.0101**	**<0.00895**	**<0.00935**	**<0.00860**	**<0.00995**	**<0.00910**	**<0.00520**	**<0.00384**	**<0.00438**	**<0.0125**
	1,1,2-Trichloroethane	0.0014	mg/kg	**<0.00800**	**<0.00815**	**<0.00715**	**<0.00745**	**<0.690**	**<0.00800**	**<0.730**	**<0.00415**	**<0.00308**	**<0.00350**	**<0.0100**
	1,1-Dichloroethane	0.092	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	1.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropene	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichlorobenzene	0.15	mg/kg	ND	ND	<0.0357 J*	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	0.000031	mg/kg	**<0.0200**	**<0.0204**	**<0.0179**	**<0.0187**	**<0.0173**	**<0.0199**	**<0.0182**	**<0.0104**	**<0.00770**	**<0.00875**	**<0.0250**
	1,2,4-Trichlorobenzene	0.082	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	0.16	mg/kg	ND	ND	ND	ND	**186 JH***	**133 JH***	**65.6 JH***	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	0.00024	mg/kg	**<0.00800**	**<0.00815**	**<0.00715**	**<0.00745**	**<0.690**	**<0.00800**	**<0.730**	**<0.00415**	**<0.00308**	**<0.00350**	**<0.0100**
	1,2-Dichlorobenzene	2.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	0.0055	mg/kg	**<0.00800**	**<0.00815**	**<0.00715**	**<0.00745**	**<0.00690**	**<0.00800**	**<0.00730**	ND	ND	ND	**<0.0100**
	1,2-Dichloropropane	0.016	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	1.3	mg/kg	ND	ND	ND	ND	**65.1 JH***	**46.3 JH***	**24.1 JH***	ND	ND	ND	ND
	1,3-Dichlorobenzene	2.3	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	0.037	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2,2-Dichloropropane	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone (MEK)	15	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Chlorotoluene	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	0.11	mg/kg	ND	ND	ND	ND	**<6.90**	ND	**<7.30**	ND	ND	ND	ND
	4-Chlorotoluene	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-pentanone (MIBK)	18	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	0.022	mg/kg	<0.0100 B*	**<0.0101 B***	<0.00895 B*	<0.00935 B*	**16.9**	**2.56**	**1.80**	<0.00520 B*	<0.00384 B*	ND	ND
	Bromobenzene	0.36	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NA	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	0.0043	mg/kg	**<0.0200**	**<0.0204**	**<0.0179**	**<0.0187**	**<0.0173**	**<0.0199**	**<0.0182**	**<0.0104**	**<0.00770**	**<0.00875**	**<0.0250**
	Bromoform	0.1	mg/kg	ND	ND	ND	ND	**<1.73**	ND	**<1.82**	ND	ND	ND	ND
	Bromomethane	0.024	mg/kg	**<0.160**	**<0.163**	**<0.143**	**<0.149**	**<0.138**	**<0.160**	**<0.145**	**<0.0830**	**<0.0615**	**<0.0700**	**<0.200**
	Carbon disulfide	2.9	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon tetrachloride	0.021	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	0.46	mg/kg	ND	ND	ND	ND	**<1.73**	ND	**<1.82**	ND	ND	ND	ND
	Chloroethane	72	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	0.0071	mg/kg	**<0.0200**	**<0.0204**	**<0.0179**	**<0.0187**	**<0.0173**	**<0.0199**	**<0.0182**	**<0.0104**	**<0.00770**	**<0.00875**	**<0.0250**
	Chloromethane	0.61	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	0.12	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene	0.018	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	0.0027	mg/kg	**<0.0200**	**<0.0204**	**<0.0179**	**<0.0187**	**<1.73**	**<0.0199**	**<1.82**	**<0.0104**	**<0.00770**	**<0.00875**	**<0.0250**
	Dibromomethane	0.025	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**<0.0250**
	Dichlorodifluoromethane	3.9	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
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Analytical Method	Analyte	ADEC Cleanup Level	Units	*CE-1*	*CW-1*	*CW-2*	*DB-1*	*DB-2*	*FK-1*	*FK-11*	*FK-2*	*FK-3*	*FK-4*	*FK-5*	*FK-6*
SW8260C (VOCs)	Ethylbenzene	0.13	mg/kg	ND	ND	—	ND	ND	ND	ND	**18.9 JH***	0.0676 JH*	ND	ND	ND
	Hexachlorobutadiene	0.02	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0405**	ND	ND	ND	ND
	Isopropylbenzene	5.6	mg/kg	ND	ND	—	ND	0.0247 J	ND	ND	**18.3 JH***	0.0838	ND	ND	ND
	Methylene chloride	0.33	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl-t-butyl ether	0.4	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene	0.038	mg/kg	ND	—	—	—	0.0196 J	—	—	**14.3**	**0.212**	ND	ND	ND
	n-Butylbenzene	23	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	9.1	mg/kg	ND	ND	—	ND	0.169	ND	ND	**12.7**	0.113	ND	ND	ND
	o-Xylene	1.5	mg/kg	ND	ND	—	ND	<0.0417 B*	0.855	1.25	**163 JH***	0.300	0.123 JH*	<0.0427 B*	ND
	P & M -Xylene	1.5	mg/kg	ND	ND	—	ND	<0.0568 B*	ND	ND	**106 JH***	0.279 JH*	<0.0622 B*	ND	ND
	p-Isopropyltoluene	NA	mg/kg	ND	ND	—	ND	<0.0310 B*	2.30	3.83	4.87	<0.107 B*	<0.0352 B*	ND	ND
	sec-Butylbenzene	42	mg/kg	ND	ND	—	ND	0.0292	0.0434 J*	0.101 J*	13.7	0.104	ND	ND	ND
	Styrene	10	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	11	mg/kg	ND	ND	—	ND	ND	0.157	0.251	1.27	ND	ND	ND	ND
	Tetrachloroethene	0.19	mg/kg	ND	ND	—	0.0633	0.0332	ND	ND	ND	ND	ND	ND	ND
	Toluene	6.7	mg/kg	ND	<0.0138 B*	—	<0.0163 B*	<0.0142 B*	<0.0199 B*	<0.0227 B*	**82.0 JH***	<0.0176 B*	<0.0156 B*	<0.0214 B*	<0.0242 B*
	Total Xylenes	1.5	mg/kg	ND	ND	—	ND	<0.0852 B*	0.855	1.25	**269 JH***	0.579 JH*	<0.168 B*	ND	ND
	trans-1,2-Dichloroethene	1.3	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	0.018	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.127**	ND	ND	ND	ND
	Trichloroethene	0.011	mg/kg	ND	ND	—	ND	ND	ND	ND	**<0.0203**	ND	ND	ND	ND
	Trichlorofluoromethane	41	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorotrifluoroethane	1700	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl acetate	1.1	mg/kg	ND	ND	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	0.0008	mg/kg	**<0.00965**	**<0.00555**	—	**<0.00650**	**<0.00570**	**<0.00795**	**<0.00905**	**<0.0203**	**<0.00705**	**<0.00620**	**<0.00855**	**<0.00970**
8270D SIM (PAH)	1-Methylnaphthalene	0.41	mg/kg	—	ND	—	ND	—	**10.9 JH***	**9.16 JH***	—	—	—	—	—
	2-Methylnaphthalene	1.3	mg/kg	—	ND	—	ND	—	1.10 JH*	0.824 JH*	—	—	—	—	—
	Acenaphthene	37	mg/kg	—	ND	—	ND	—	0.562 JH*	0.473 JH*	—	—	—	—	—
	Acenaphthylene	18	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Anthracene	390	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Benzo(a)anthracene	0.28	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Benzo(a)pyrene	0.27	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Benzo(b)fluoranthene	2.7	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Benzo(g,h,i)perylene	15000	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Benzo(k)fluoranthene	27	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Chrysene	82	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Dibenzo(a,h)anthracene	0.87	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Fluoranthene	590	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Fluorene	36	mg/kg	—	ND	—	ND	—	0.490 JH*	0.394 JH*	—	—	—	—	—
	Indeno(1,2,3-cd)pyrene	8.8	mg/kg	—	ND	—	ND	—	ND	ND	—	—	—	—	—
	Naphthalene	0.038	mg/kg	—	ND	—	ND	—	**<0.0510**	**<0.0505**	—	—	—	—	—
	Phenanthrene	39	mg/kg	—	ND	—	ND	—	0.0823 JH*	0.0645 JH*	—	—	—	—	—
	Pyrene	87	mg/kg	—	ND	—	0.0107 J	—	ND	ND	—	—	—	—	—

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
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Analytical Method	Analyte	ADEC Cleanup Level	Units	*FK-7*	*FK-8*	*GC-1*	*GC-2*	*Loader-1*	*Loader-2*	*NCHE-1*	*NCHE-11*	*NCHE-2*	*NCHE-3*	*NCHE-4*	*NCHN-1*
SW8260C (VOCs)	Ethylbenzene	0.13	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	**<15.9**	**<0.750**	**<0.730**	ND
	Hexachlorobutadiene	0.02	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene	5.6	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	**<15.9**	ND	ND	ND
	Methylene chloride	0.33	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl-t-butyl ether	0.4	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene	0.038	mg/kg	—	—	ND	—	—	ND	0.0264 J*	—	ND	ND	ND	—
	n-Butylbenzene	23	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	9.1	mg/kg	—	—	ND	ND	ND	ND	0.105 J*	0.0316 J*	ND	ND	ND	ND
	o-Xylene	1.5	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	ND	ND	ND	ND
	P & M -Xylene	1.5	mg/kg	—	—	ND	ND	ND	ND	**<32.1**	**<36.7**	**<31.8**	**<1.50**	ND	ND
	p-Isopropyltoluene	NA	mg/kg	—	—	ND	ND	ND	ND	<0.0322 B*	ND	ND	ND	ND	ND
	sec-Butylbenzene	42	mg/kg	—	—	ND	ND	ND	ND	0.0360 J*	<0.0184 J*	ND	ND	ND	ND
	Styrene	10	mg/kg	—	—	ND	ND	ND	ND	**<16.1**	**<18.4**	**<15.9**	ND	ND	ND
	tert-Butylbenzene	11	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	0.19	mg/kg	—	—	ND	ND	ND	ND	**<8.05**	**<9.20**	**<7.95**	**<0.375**	**<0.364**	ND
	Toluene	6.7	mg/kg	—	—	<0.00650 B*	<0.00690 B*	<0.0165 B*	<0.0239 B*	**3,830 J***	**5,780 J***	**5,250**	**19.9**	**34.6**	<0.0168 B*
	Total Xylenes	1.5	mg/kg	—	—	ND	ND	ND	ND	**<48.3**	**<55.0**	**<47.6**	**<2.25**	**<2.19**	ND
	trans-1,2-Dichloroethene	1.3	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	0.018	mg/kg	—	—	ND	ND	ND	ND	**<8.05**	**<9.20**	**<7.95**	**<0.375**	**<0.364**	ND
	Trichloroethene	0.011	mg/kg	—	—	ND	ND	ND	ND	**0.0235 J***	<0.00735 J*	ND	ND	ND	ND
	Trichlorofluoromethane	41	mg/kg	—	—	ND	ND	0.0419 J	ND	ND	ND	ND	ND	ND	ND
	Trichlorotrifluoroethane	1700	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl acetate	1.1	mg/kg	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	0.0008	mg/kg	—	—	**<0.00261**	**<0.00276**	**<0.00660**	**<0.00955**	**<0.00645**	**<0.00735**	**<0.00635**	**<0.00600**	**<0.00585**	**<0.00670**
8270D SIM (PAH)	1-Methylnaphthalene	0.41	mg/kg	—	—	—	ND	ND	—	0.0216 J*	0.0123 J*	—	—	—	ND
	2-Methylnaphthalene	1.3	mg/kg	—	—	—	ND	ND	—	0.0356 J*	0.0198 J*	—	—	—	ND
	Acenaphthene	37	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Acenaphthylene	18	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Anthracene	390	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Benzo(a)anthracene	0.28	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Benzo(a)pyrene	0.27	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Benzo(b)fluoranthene	2.7	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Benzo(g,h,i)perylene	15000	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Benzo(k)fluoranthene	27	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Chrysene	82	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Dibenzo(a,h)anthracene	0.87	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Fluoranthene	590	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Fluorene	36	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Indeno(1,2,3-cd)pyrene	8.8	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Naphthalene	0.038	mg/kg	—	—	—	ND	**<0.0485**	—	—	0.0152 J*	—	—	—	ND
	Phenanthrene	39	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND
	Pyrene	87	mg/kg	—	—	—	ND	ND	—	ND	ND	—	—	—	ND

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*NCHN-2*	*NCHS-1*	*NCHS-2*	*NCHS-3*	*NCHW-1*	*NCHW-2*	*NCHW-12*	*PYR-1*	*PYR-2*	*SF-1*	*SF-2*
SW8260C (VOCs)	Ethylbenzene	0.13	mg/kg	<0.0400 B*	<0.0407 B*	ND	ND	**242**	**48.7**	**30.3**	ND	ND	ND	ND
	Hexachlorobutadiene	0.02	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**<0.0200**
	Isopropylbenzene	5.6	mg/kg	ND	ND	ND	ND	**37.6**	**16.2 J***	**9.58 J***	ND	ND	ND	ND
	Methylene chloride	0.33	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl-t-butyl ether	0.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene	0.038	mg/kg	ND	—	<0.0179 J*	ND	—	**1.19 JH***	**0.668 JH***	ND	—	ND	—
	n-Butylbenzene	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	9.1	mg/kg	ND	ND	ND	ND	**66.7 JH***	**29.3 JH***	**16.5 JH***	ND	ND	ND	ND
	o-Xylene	1.5	mg/kg	<0.0400 B*	<0.0407 B*	<0.0357 B*	ND	379	183 J*	102 J*	ND	ND	ND	ND
	P & M -Xylene	1.5	mg/kg	<0.0800 B*	<0.0870 B*	<0.0714 B*	ND	**822**	**380 J***	**224 J***	ND	ND	ND	ND
	p-Isopropyltoluene	NA	mg/kg	ND	ND	ND	ND	19.5 JH*	5.05 JH*	7.98 JH*	ND	ND	ND	ND
	sec-Butylbenzene	42	mg/kg	ND	ND	ND	ND	9.92 JH*	6.86 JH*	4.91 JH*	ND	ND	ND	ND
	Styrene	10	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	11	mg/kg	ND	ND	ND	ND	1.09 JH*	0.781 JH*	0.384 JH*	ND	ND	ND	ND
	Tetrachloroethene	0.19	mg/kg	ND	ND	ND	ND	**<0.860**	ND	**<0.910**	ND	ND	ND	ND
	Toluene	6.7	mg/kg	<0.0200 B*	<0.0204 B*	<0.0179 B*	<0.0187 B*	**1,060**	<0.0199J*	**160 J***	<0.0104 B*	<0.00770 B*	<0.00875 B*	<0.0250 B*
	Total Xylenes	1.5	mg/kg	<0.120 B*	<0.122 B*	<0.107 B*	ND	**1,200**	**563 J***	**326 J***	ND	ND	ND	ND
	trans-1,2-Dichloroethene	1.3	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	0.018	mg/kg	ND	ND	ND	ND	**<0.860**	ND	**<0.910**	ND	ND	ND	ND
	Trichloroethene	0.011	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorofluoromethane	41	mg/kg	ND	ND	<0.0357 J*	ND	ND	ND	ND	ND	ND	ND	ND
	Trichlorotrifluoroethane	1700	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl acetate	1.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	0.0008	mg/kg	**<0.00800**	**<0.00815**	**<0.00715**	**<0.00745**	**<0.00690**	**<0.00800**	**<0.00730**	**<0.00415**	**<0.00308**	**<0.00350**	**<0.0100**
8270D SIM (PAH)	1-Methylnaphthalene	0.41	mg/kg	—	ND	—	—	0.362	—	—	—	ND	—	ND
	2-Methylnaphthalene	1.3	mg/kg	—	ND	—	—	0.555	—	—	—	ND	—	ND
	Acenaphthene	37	mg/kg	—	ND	—	—	0.0122 J	—	—	—	ND	—	ND
	Acenaphthylene	18	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Anthracene	390	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Benzo(a)anthracene	0.28	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Benzo(a)pyrene	0.27	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Benzo(b)fluoranthene	2.7	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Benzo(g,h,i)perylene	15000	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Benzo(k)fluoranthene	27	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Chrysene	82	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Dibenzo(a,h)anthracene	0.87	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Fluoranthene	590	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Fluorene	36	mg/kg	—	ND	—	—	0.0788	—	—	—	ND	—	ND
	Indeno(1,2,3-cd)pyrene	8.8	mg/kg	—	ND	—	—	ND	—	—	—	ND	—	ND
	Naphthalene	0.038	mg/kg	—	ND	—	—	**2.89**	—	—	—	ND	—	ND
	Phenanthrene	39	mg/kg	—	ND	—	—	0.0926	—	—	—	ND	—	ND
	Pyrene	87	mg/kg	—	ND	—	—	0.0174 J	—	—	—	ND	—	ND

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*CE-1*	*CW-1*	*CW-2*	*DB-1*	*DB-2*	*FK-1*	*FK-11*	*FK-2*	*FK-3*	*FK-4*	*FK-5*	*FK-6*
SW8082A (PCBs)	Aroclor-1016	1.0 (total)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1221		mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1232		mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1242		mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1248		mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1254		mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aroclor-1260		mg/Kg	ND	0.291	0.266	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW6020A (Metals)	Arsenic	0.2	mg/kg	—	—	—	**14.7**	**11.7**	**7.12**	**7.20**	**11.9**	**13.2**	**10.3**	**9.78**	**9.67**
	Barium	2100	mg/kg	—	—	—	136	148	169	156	169	117	176	157	166
	Cadmium	9.1	mg/kg	—	—	—	0.192 J	0.188 J	0.282	0.171 J	0.138 J	0.110 J	0.313	0.216 J	0.227 J
	Chromium	100,000	mg/kg	—	—	—	26.6	26.5	29.3	39.7	29.6	24.5	31.5	26.5	28.1
	Lead	400	mg/kg	—	—	—	11.4	12.0	11.2 J*	98.2 J*	11.7	9.37	14.5	11.3	13.7
	Mercury	0.36	mg/kg	—	—	—	0.0477	0.0350 J	0.0294 J	0.0409 J	0.0481 J	0.0242 J	0.0386 J	0.0254 J	0.0254 J
	Selenium	6.9	mg/kg	—	—	—	0.554 J	0.563 J	ND	0.503 J	0.732 J	0.382 J	0.622 J	0.767 J	0.526 J
	Silver	11	mg/kg	—	—	—	0.0836 J	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*FK-7*	*FK-8*	*GC-1*	*GC-2*	*Loader-1*	*Loader-2*	*NCHE-1*	*NCHE-11*	*NCHE-2*	*NCHE-3*	*NCHE-4*	*NCHN-1*
SW8082A (PCBs)	Aroclor-1016	1.0 (total)	mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1221		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1232		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1242		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1248		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1254		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
	Aroclor-1260		mg/Kg	ND	ND	—	—	—	—	—	—	—	—	—	—
SW6020A (Metals)	Arsenic	0.2	mg/kg	**14.0**	**9.00**	—	—	—	—	—	—	—	—	—	—
	Barium	2100	mg/kg	218	162	—	—	—	—	—	—	—	—	—	—
	Cadmium	9.1	mg/kg	0.150 J	0.162 J	—	—	—	—	—	—	—	—	—	—
	Chromium	100,000	mg/kg	38.8	24.0	—	—	—	—	—	—	—	—	—	—
	Lead	400	mg/kg	13.9	21.4	—	—	—	—	—	—	—	—	—	—
	Mercury	0.36	mg/kg	0.0502	0.0779 JH*	—	—	—	—	—	—	—	—	—	—
	Selenium	6.9	mg/kg	0.796 J	0.380 J	—	—	—	—	—	—	—	—	—	—
	Silver	11	mg/kg	0.0804 J	ND	—	—	—	—	—	—	—	—	—	—

TABLE 4
OCTOBER 2017 ANALYTICAL SOIL-SAMPLES RESULTS SUMMARY
MILLER SALVAGE, INC. PROPERTY

Analytical Method	Analyte	ADEC Cleanup Level	Units	*NCHN-2*	*NCHS-1*	*NCHS-2*	*NCHS-3*	*NCHW-1*	*NCHW-2*	*NCHW-12*	*PYR-1*	*PYR-2*	*SF-1*	*SF-2*
SW8082A (PCBs)	Aroclor-1016	1.0 (total)	mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1221		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1232		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1242		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1248		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1254		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
	Aroclor-1260		mg/Kg	—	—	—	—	—	—	—	—	—	—	—
SW6020A (Metals)	Arsenic	0.2	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Barium	2100	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Cadmium	9.1	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Chromium	100,000	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Lead	400	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Mercury	0.36	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Selenium	6.9	mg/kg	—	—	—	—	—	—	—	—	—	—	—
	Silver	11	mg/kg	—	—	—	—	—	—	—	—	—	—	—

Notes:

Analytical results reported from SGS laboratory report 1178572.

Sample *FK-11* is a field-duplicate of sample *FK-1. Sample NCHE-11 is a field-duplicate of sample NCHE-1. Sample NCHW-12 is a field-duplicate of sample NCHW-2.*

ADEC Soil-Cleanup Levels from 18 AAC 75.340 Table B1. Method Two - Migration to Groundwater and Table B2. Method Two - Under 40 Inch Zone - Migration to Groundwater

ADEC Alaska Department of Environmental Conservation

VOCs volatile organic compounds

PAHs polynuclear aromatic hydrocarbons

PCBs polychlorinated biphenyls

NA Not applicable; ADEC Groundwater-Cleanup Level not established.

mg/kg milligrams per liter

ND Analyte not detected.

<Bold Limt of detection (LOD) exceeds regulatory limit.

< LOD flagged, or result flagged non-detect due to quality-control failures.

J Estimated concentration, detected greater than the detection limit (DL) and less than the limit of quantitation (LOQ) or RL. Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson, Inc.

JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson, Inc.

B* Result is considered not detected due to quality control failures; see checklist for details. Flag applied by Shannon & Wilson, Inc.

— Not applicable; analysis not requested or reported by a more sensitive method.

Bold Detected concentration exceeds regulatory limit.

Laboratory Report of Analysis

To: Shannon & Wilson-Fairbanks
2355 Hill Road
Fairbanks, AK 99709
(907)479-0600

Report Number: **1178553**

Client Project: **20056-004 Miller Salvage**

Dear Rena Flint,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jennifer at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Jennifer Dawkins Date
Project Manager
Jennifer.Dawkins@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Shannon & Wilson-Fairbanks**
SGS Project: **1178553**
Project Name/Site: **20056-004 Miller Salvage**
Project Contact: **Rena Flint**

Refer to sample receipt form for information on sample condition.

LB for HBN 1771557 [TCLP/9110] (1424200) LB

8260C - Hexachlorobutadiene was detected in the LB. This analyte was not detected above the LOQ in the associated samples.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are **AK00971 DW Chemistry (Provisionally Certified as of 10/12/2017) & Microbiology (Provisionally Certified as of 9/21/2017)** & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
TWP17-24	1178553001	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-14	1178553002	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-30	1178553003	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-29	1178553004	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-42	1178553005	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-40	1178553006	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-140	1178553007	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-28	1178553008	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-22	1178553009	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-16	1178553010	10/24/2017	10/25/2017	Water (Surface, Eff., Ground)
TWP17-10	1178553011	10/24/2017	10/25/2017	Water (Surface, Eff., Ground)
Trip Blank	1178553012	10/23/2017	10/25/2017	Water (Surface, Eff., Ground)

Method	Method Description
AK102	DRO/RRO Low Volume Water
AK103	DRO/RRO Low Volume Water
AK101	Gasoline Range Organics (W)
SW8260C	Volatile Organic Compounds (W) FULL

Detectable Results Summary

Client Sample ID: **TWP17-24**
Lab Sample ID: 1178553001

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.270J	mg/L
	Residual Range Organics	0.234J	mg/L
Volatile GC/MS	Benzene	0.230J	ug/L
	cis-1,2-Dichloroethene	0.810J	ug/L

Client Sample ID: **TWP17-14**
Lab Sample ID: 1178553002

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.147J	mg/L

Client Sample ID: **TWP17-30**
Lab Sample ID: 1178553003

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.464J	mg/L
	Residual Range Organics	0.428J	mg/L
Volatile GC/MS	Benzene	0.920	ug/L
	Trichlorofluoromethane	0.500J	ug/L

Client Sample ID: **TWP17-29**
Lab Sample ID: 1178553004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.324J	mg/L
	Residual Range Organics	0.402J	mg/L
Volatile GC/MS	Trichlorofluoromethane	5.19	ug/L

Client Sample ID: **TWP17-42**
Lab Sample ID: 1178553005

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.188J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	1.11	ug/L
	Tetrachloroethene	0.380J	ug/L
	Trichloroethene	0.680J	ug/L

Client Sample ID: **TWP17-40**
Lab Sample ID: 1178553006

	Parameter	Result	Units
Volatile Fuels	Gasoline Range Organics	0.0479J	mg/L

Client Sample ID: **TWP17-140**
Lab Sample ID: 1178553007

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.161J	mg/L

Client Sample ID: **TWP17-28**
Lab Sample ID: 1178553008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.729	mg/L
	Residual Range Organics	0.608	mg/L
Volatile Fuels	Gasoline Range Organics	0.0343J	mg/L
Volatile GC/MS	1,2-Dichloroethane	0.240J	ug/L
	Benzene	7.15	ug/L
	Chloromethane	0.770J	ug/L
	cis-1,2-Dichloroethene	0.450J	ug/L

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Detectable Results Summary

Client Sample ID: **TWP17-22**
Lab Sample ID: 1178553009

Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	0.231J	mg/L
Residual Range Organics	0.186J	mg/L

Client Sample ID: **TWP17-16**
Lab Sample ID: 1178553010

Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	0.744	mg/L
Residual Range Organics	0.706	mg/L

Volatile GC/MS

Parameter	Result	Units
Benzene	2.57	ug/L
cis-1,2-Dichloroethene	0.550J	ug/L

Client Sample ID: **TWP17-10**
Lab Sample ID: 1178553011

Semivolatile Organic Fuels

Parameter	Result	Units
Residual Range Organics	0.156J	mg/L

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Results of **TWP17-24**

Client Sample ID: **TWP17-24**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553001
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.270	J	0.577	0.173	mg/L	1		10/27/17 05:13
Surrogates								
5a Androstane (surr)	79		50-150		%	1		10/27/17 05:13

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 05:13
Container ID: 1178553001-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.234	J	0.481	0.144	mg/L	1		10/27/17 05:13
Surrogates								
n-Triacontane-d62 (surr)	87.6		50-150		%	1		10/27/17 05:13

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 05:13
Container ID: 1178553001-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-24**

Client Sample ID: **TWP17-24**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553001
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 17:28
Surrogates								
4-Bromofluorobenzene (surr)	106		50-150		%	1		10/26/17 17:28

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 17:28
Container ID: 1178553001-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-24**

Client Sample ID: **TWP17-24**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553001
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:01
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:01
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 14:01
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:01
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:01
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:01
Benzene	0.230	J	0.400	0.120	ug/L	1		11/03/17 14:01
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 14:01
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:01
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:01
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:01

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Results of **TWP17-24**

Client Sample ID: **TWP17-24**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553001
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
cis-1,2-Dichloroethene	0.810 J		1.00	0.310	ug/L	1		11/03/17 14:01
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/03/17 14:01
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/03/17 14:01
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/03/17 14:01
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/03/17 14:01
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/03/17 14:01
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/03/17 14:01
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Styrene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Toluene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 14:01
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/03/17 14:01
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/03/17 14:01
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/03/17 14:01
Surrogates								
1,2-Dichloroethane-D4 (surr)	102		81-118		%	1		11/03/17 14:01
4-Bromofluorobenzene (surr)	104		85-114		%	1		11/03/17 14:01
Toluene-d8 (surr)	96.3		89-112		%	1		11/03/17 14:01

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Results of **TWP17-24**

Client Sample ID: **TWP17-24**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553001
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 14:01
Container ID: 1178553001-D

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553002
Lab Project ID: 1178553

Collection Date: 10/23/17 12:59
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		10/27/17 05:23
Surrogates								
5a Androstane (surr)	79.4		50-150		%	1		10/27/17 05:23

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 05:23
Container ID: 1178553002-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.147	J	0.481	0.144	mg/L	1		10/27/17 05:23
Surrogates								
n-Triacontane-d62 (surr)	83.3		50-150		%	1		10/27/17 05:23

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 05:23
Container ID: 1178553002-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/06/2017 11:13:46AM

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Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553002
Lab Project ID: 1178553

Collection Date: 10/23/17 12:59
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 17:47
Surrogates								
4-Bromofluorobenzene (surr)	108		50-150		%	1		10/26/17 17:47

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 17:47
Container ID: 1178553002-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553002
Lab Project ID: 1178553

Collection Date: 10/23/17 12:59
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:17
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 14:17
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:17
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 14:17
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17

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Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553002
Lab Project ID: 1178553

Collection Date: 10/23/17 12:59
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:17
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 14:17
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 14:17
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:17
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:17
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 14:17
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 14:17
Surrogates								
1,2-Dichloroethane-D4 (surr)	106		81-118		%	1		11/03/17 14:17
4-Bromofluorobenzene (surr)	103		85-114		%	1		11/03/17 14:17
Toluene-d8 (surr)	97.7		89-112		%	1		11/03/17 14:17

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J flagging is activated

Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553002
Lab Project ID: 1178553

Collection Date: 10/23/17 12:59
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 14:17
Container ID: 1178553002-D

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-30**

Client Sample ID: **TWP17-30**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553003
Lab Project ID: 1178553

Collection Date: 10/23/17 14:30
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.464	J	0.588	0.176	mg/L	1		10/27/17 05:33
Surrogates								
5a Androstane (surr)	79.8		50-150		%	1		10/27/17 05:33

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 05:33
Container ID: 1178553003-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.428	J	0.490	0.147	mg/L	1		10/27/17 05:33
Surrogates								
n-Triacontane-d62 (surr)	90.7		50-150		%	1		10/27/17 05:33

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 05:33
Container ID: 1178553003-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-30**

Client Sample ID: **TWP17-30**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553003
Lab Project ID: 1178553

Collection Date: 10/23/17 14:30
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 18:07
Surrogates								
4-Bromofluorobenzene (surr)	107		50-150		%	1		10/26/17 18:07

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 18:07
Container ID: 1178553003-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-30**

Client Sample ID: **TWP17-30**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553003
Lab Project ID: 1178553

Collection Date: 10/23/17 14:30
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:33
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 14:33
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
Benzene	0.920		0.400	0.120	ug/L	1		11/03/17 14:33
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 14:33
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33

Results of **TWP17-30**

Client Sample ID: **TWP17-30**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553003
Lab Project ID: 1178553

Collection Date: 10/23/17 14:30
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:33
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 14:33
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 14:33
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:33
Trichlorofluoromethane	0.500	J	1.00	0.310	ug/L	1		11/03/17 14:33
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:33
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 14:33
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 14:33
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/03/17 14:33
4-Bromofluorobenzene (surr)	105		85-114		%	1		11/03/17 14:33
Toluene-d8 (surr)	97.5		89-112		%	1		11/03/17 14:33

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Results of **TWP17-30**

Client Sample ID: **TWP17-30**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553003
Lab Project ID: 1178553

Collection Date: 10/23/17 14:30
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 14:33
Container ID: 1178553003-D

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553004
Lab Project ID: 1178553

Collection Date: 10/23/17 14:45
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.324	J	0.588	0.176	mg/L	1		10/27/17 05:43
Surrogates								
5a Androstane (surr)	78.5		50-150		%	1		10/27/17 05:43

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 05:43
Container ID: 1178553004-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.402	J	0.490	0.147	mg/L	1		10/27/17 05:43
Surrogates								
n-Triacontane-d62 (surr)	85.8		50-150		%	1		10/27/17 05:43

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 05:43
Container ID: 1178553004-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553004
Lab Project ID: 1178553

Collection Date: 10/23/17 14:45
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 18:26
Surrogates								
4-Bromofluorobenzene (surr)	109		50-150		%	1		10/26/17 18:26

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 18:26
Container ID: 1178553004-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553004
Lab Project ID: 1178553

Collection Date: 10/23/17 14:45
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:49
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 14:49
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 14:49
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 14:49
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49

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Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553004
Lab Project ID: 1178553

Collection Date: 10/23/17 14:45
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 14:49
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 14:49
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 14:49
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 14:49
Trichlorofluoromethane	5.19		1.00	0.310	ug/L	1		11/03/17 14:49
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 14:49
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 14:49
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 14:49
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/03/17 14:49
4-Bromofluorobenzene (surr)	108		85-114		%	1		11/03/17 14:49
Toluene-d8 (surr)	95.7		89-112		%	1		11/03/17 14:49

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Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553004
Lab Project ID: 1178553

Collection Date: 10/23/17 14:45
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 14:49
Container ID: 1178553004-D

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-42**

Client Sample ID: **TWP17-42**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553005
Lab Project ID: 1178553

Collection Date: 10/23/17 15:52
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		10/27/17 06:12
Surrogates								
5a Androstane (surr)	79.2		50-150		%	1		10/27/17 06:12

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 06:12
Container ID: 1178553005-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.188	J	0.481	0.144	mg/L	1		10/27/17 06:12
Surrogates								
n-Triacontane-d62 (surr)	83.9		50-150		%	1		10/27/17 06:12

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 06:12
Container ID: 1178553005-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-42**

Client Sample ID: **TWP17-42**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553005
Lab Project ID: 1178553

Collection Date: 10/23/17 15:52
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 18:45
Surrogates								
4-Bromofluorobenzene (surr)	106		50-150		%	1		10/26/17 18:45

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 18:45
Container ID: 1178553005-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-42**

Client Sample ID: **TWP17-42**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553005
Lab Project ID: 1178553

Collection Date: 10/23/17 15:52
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 15:05
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 15:05
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 15:05
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 15:05
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 15:05
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 15:05
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 15:05
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 15:05
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 15:05
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 15:05
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 15:05

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Results of **TWP17-42**

Client Sample ID: **TWP17-42**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553005
Lab Project ID: 1178553

Collection Date: 10/23/17 15:52
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
cis-1,2-Dichloroethene	1.11		1.00	0.310	ug/L	1		11/03/17 15:05
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/03/17 15:05
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/03/17 15:05
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/03/17 15:05
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/03/17 15:05
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/03/17 15:05
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/03/17 15:05
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Styrene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Tetrachloroethene	0.380 J		1.00	0.310	ug/L	1		11/03/17 15:05
Toluene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Trichloroethene	0.680 J		1.00	0.310	ug/L	1		11/03/17 15:05
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 15:05
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/03/17 15:05
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/03/17 15:05
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/03/17 15:05
Surrogates								
1,2-Dichloroethane-D4 (surr)	106		81-118		%	1		11/03/17 15:05
4-Bromofluorobenzene (surr)	104		85-114		%	1		11/03/17 15:05
Toluene-d8 (surr)	95.2		89-112		%	1		11/03/17 15:05

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Results of **TWP17-42**

Client Sample ID: **TWP17-42**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553005
Lab Project ID: 1178553

Collection Date: 10/23/17 15:52
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 15:05
Container ID: 1178553005-D

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553006
Lab Project ID: 1178553

Collection Date: 10/23/17 16:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.283	U	0.566	0.170	mg/L	1		10/27/17 06:21
Surrogates								
5a Androstane (surr)	78.2		50-150		%	1		10/27/17 06:21

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 06:21
Container ID: 1178553006-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.236	U	0.472	0.142	mg/L	1		10/27/17 06:21
Surrogates								
n-Triacontane-d62 (surr)	86.3		50-150		%	1		10/27/17 06:21

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 06:21
Container ID: 1178553006-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553006
Lab Project ID: 1178553

Collection Date: 10/23/17 16:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0479	J	0.100	0.0310	mg/L	1		10/26/17 19:42
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/26/17 19:42

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 19:42
Container ID: 1178553006-A

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553006
Lab Project ID: 1178553

Collection Date: 10/23/17 16:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 20:59
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 20:59
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 20:59
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 20:59
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553006
Lab Project ID: 1178553

Collection Date: 10/23/17 16:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 20:59
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 20:59
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 20:59
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 20:59
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 20:59
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 20:59
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 20:59
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/03/17 20:59
4-Bromofluorobenzene (surr)	93.2		85-114		%	1		11/03/17 20:59
Toluene-d8 (surr)	97.2		89-112		%	1		11/03/17 20:59

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Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553006
Lab Project ID: 1178553

Collection Date: 10/23/17 16:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 20:59
Container ID: 1178553006-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553007
Lab Project ID: 1178553

Collection Date: 10/23/17 15:56
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		10/27/17 06:31
Surrogates								
5a Androstane (surr)	74.3		50-150		%	1		10/27/17 06:31

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 06:31
Container ID: 1178553007-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.161	J	0.481	0.144	mg/L	1		10/27/17 06:31
Surrogates								
n-Triacontane-d62 (surr)	90.1		50-150		%	1		10/27/17 06:31

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 06:31
Container ID: 1178553007-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553007
Lab Project ID: 1178553

Collection Date: 10/23/17 15:56
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/27/17 00:10
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/27/17 00:10

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/27/17 00:10
Container ID: 1178553007-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553007
Lab Project ID: 1178553

Collection Date: 10/23/17 15:56
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 21:16
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 21:16
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 21:16
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 21:16
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16

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Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553007
Lab Project ID: 1178553

Collection Date: 10/23/17 15:56
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:16
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 21:16
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 21:16
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:16
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:16
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 21:16
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 21:16
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/03/17 21:16
4-Bromofluorobenzene (surr)	95.2		85-114		%	1		11/03/17 21:16
Toluene-d8 (surr)	96.2		89-112		%	1		11/03/17 21:16

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J flagging is activated

Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553007
Lab Project ID: 1178553

Collection Date: 10/23/17 15:56
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 21:16
Container ID: 1178553007-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-28**

Client Sample ID: **TWP17-28**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553008
Lab Project ID: 1178553

Collection Date: 10/23/17 17:04
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.729		0.600	0.180	mg/L	1		10/27/17 06:41
Surrogates								
5a Androstane (surr)	83.5		50-150		%	1		10/27/17 06:41

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 06:41
Container ID: 1178553008-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.608		0.500	0.150	mg/L	1		10/27/17 06:41
Surrogates								
n-Triacontane-d62 (surr)	83.2		50-150		%	1		10/27/17 06:41

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 06:41
Container ID: 1178553008-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **TWP17-28**

Client Sample ID: **TWP17-28**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553008
Lab Project ID: 1178553

Collection Date: 10/23/17 17:04
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0343	J	0.100	0.0310	mg/L	1		10/27/17 00:29
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	1		10/27/17 00:29

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/27/17 00:29
Container ID: 1178553008-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **TWP17-28**

Client Sample ID: **TWP17-28**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553008
Lab Project ID: 1178553

Collection Date: 10/23/17 17:04
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 21:33
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 21:33
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,2-Dichloroethane	0.240	J	0.500	0.150	ug/L	1		11/03/17 21:33
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
Benzene	7.15		0.400	0.120	ug/L	1		11/03/17 21:33
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 21:33
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33

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Results of **TWP17-28**

Client Sample ID: **TWP17-28**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553008
Lab Project ID: 1178553

Collection Date: 10/23/17 17:04
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Chloromethane	0.770	J	1.00	0.310	ug/L	1		11/03/17 21:33
cis-1,2-Dichloroethene	0.450	J	1.00	0.310	ug/L	1		11/03/17 21:33
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:33
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 21:33
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 21:33
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:33
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:33
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 21:33
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 21:33
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/03/17 21:33
4-Bromofluorobenzene (surr)	93.2		85-114		%	1		11/03/17 21:33
Toluene-d8 (surr)	97.7		89-112		%	1		11/03/17 21:33

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Results of **TWP17-28**

Client Sample ID: **TWP17-28**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553008
Lab Project ID: 1178553

Collection Date: 10/23/17 17:04
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 21:33
Container ID: 1178553008-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553009
Lab Project ID: 1178553

Collection Date: 10/23/17 18:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.231	J	0.556	0.167	mg/L	1		10/27/17 06:51
Surrogates								
5a Androstane (surr)	80.1		50-150		%	1		10/27/17 06:51

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 06:51
Container ID: 1178553009-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.186	J	0.463	0.139	mg/L	1		10/27/17 06:51
Surrogates								
n-Triacontane-d62 (surr)	85.9		50-150		%	1		10/27/17 06:51

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 06:51
Container ID: 1178553009-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553009
Lab Project ID: 1178553

Collection Date: 10/23/17 18:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/27/17 00:48
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	1		10/27/17 00:48

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/27/17 00:48
Container ID: 1178553009-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553009
Lab Project ID: 1178553

Collection Date: 10/23/17 18:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 21:50
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:50
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 21:50
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:50
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:50
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:50
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 21:50
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 21:50
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 21:50
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 21:50
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 21:50

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Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553009
Lab Project ID: 1178553

Collection Date: 10/23/17 18:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/03/17 21:50
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/03/17 21:50
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/03/17 21:50
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/03/17 21:50
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/03/17 21:50
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/03/17 21:50
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Styrene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Toluene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 21:50
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/03/17 21:50
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/03/17 21:50
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/03/17 21:50
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/03/17 21:50
4-Bromofluorobenzene (surr)	93.9		85-114		%	1		11/03/17 21:50
Toluene-d8 (surr)	96.2		89-112		%	1		11/03/17 21:50

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Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553009
Lab Project ID: 1178553

Collection Date: 10/23/17 18:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 21:50
Container ID: 1178553009-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-16**

Client Sample ID: **TWP17-16**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553010
Lab Project ID: 1178553

Collection Date: 10/24/17 10:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.744		0.577	0.173	mg/L	1		10/27/17 07:00
Surrogates								
5a Androstane (surr)	82.5		50-150		%	1		10/27/17 07:00

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 07:00
Container ID: 1178553010-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.706		0.481	0.144	mg/L	1		10/27/17 07:00
Surrogates								
n-Triacontane-d62 (surr)	94		50-150		%	1		10/27/17 07:00

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 07:00
Container ID: 1178553010-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-16**

Client Sample ID: **TWP17-16**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553010
Lab Project ID: 1178553

Collection Date: 10/24/17 10:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/27/17 01:07
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/27/17 01:07

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/27/17 01:07
Container ID: 1178553010-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-16**

Client Sample ID: **TWP17-16**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553010
Lab Project ID: 1178553

Collection Date: 10/24/17 10:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 22:07
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:07
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 22:07
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:07
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:07
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:07
Benzene	2.57		0.400	0.120	ug/L	1		11/03/17 22:07
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 22:07
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:07
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:07
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:07

Results of **TWP17-16**

Client Sample ID: **TWP17-16**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553010
Lab Project ID: 1178553

Collection Date: 10/24/17 10:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
cis-1,2-Dichloroethene	0.550 J		1.00	0.310	ug/L	1		11/03/17 22:07
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/03/17 22:07
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/03/17 22:07
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:07
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/03/17 22:07
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:07
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/03/17 22:07
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Styrene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Toluene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:07
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:07
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/03/17 22:07
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/03/17 22:07
Surrogates								
1,2-Dichloroethane-D4 (surr)	103		81-118		%	1		11/03/17 22:07
4-Bromofluorobenzene (surr)	92.4		85-114		%	1		11/03/17 22:07
Toluene-d8 (surr)	96.9		89-112		%	1		11/03/17 22:07

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J flagging is activated

Results of **TWP17-16**

Client Sample ID: **TWP17-16**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553010
Lab Project ID: 1178553

Collection Date: 10/24/17 10:06
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 22:07
Container ID: 1178553010-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553011
Lab Project ID: 1178553

Collection Date: 10/24/17 10:35
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		10/27/17 07:10
Surrogates								
5a Androstane (surr)	75		50-150		%	1		10/27/17 07:10

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 10/27/17 07:10
Container ID: 1178553011-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.156	J	0.490	0.147	mg/L	1		10/27/17 07:10
Surrogates								
n-Triacontane-d62 (surr)	83.3		50-150		%	1		10/27/17 07:10

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 10/27/17 07:10
Container ID: 1178553011-G

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/17 08:49
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553011
Lab Project ID: 1178553

Collection Date: 10/24/17 10:35
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/27/17 01:26
Surrogates								
4-Bromofluorobenzene (surr)	103		50-150		%	1		10/27/17 01:26

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/27/17 01:26
Container ID: 1178553011-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553011
Lab Project ID: 1178553

Collection Date: 10/24/17 10:35
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 22:24
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:24
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 22:24
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:24
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:24
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:24
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 22:24
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 22:24
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 22:24
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 22:24
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 22:24

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Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553011
Lab Project ID: 1178553

Collection Date: 10/24/17 10:35
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/03/17 22:24
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/03/17 22:24
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:24
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/03/17 22:24
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:24
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/03/17 22:24
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Styrene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Toluene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/03/17 22:24
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/03/17 22:24
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/03/17 22:24
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/03/17 22:24
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/03/17 22:24
4-Bromofluorobenzene (surr)	93.1		85-114		%	1		11/03/17 22:24
Toluene-d8 (surr)	95.8		89-112		%	1		11/03/17 22:24

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Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553011
Lab Project ID: 1178553

Collection Date: 10/24/17 10:35
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 22:24
Container ID: 1178553011-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553012
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/26/17 21:18
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	1		10/26/17 21:18

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/26/17 21:18
Container ID: 1178553012-A

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553012
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/03/17 17:32
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/03/17 17:32
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
Benzene	0.200	U	0.400	0.120	ug/L	1		11/03/17 17:32
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/03/17 17:32
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553012
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/03/17 17:32
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/03/17 17:32
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/03/17 17:32
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Styrene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Toluene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/03/17 17:32
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/03/17 17:32
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/03/17 17:32
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/03/17 17:32
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/03/17 17:32
4-Bromofluorobenzene (surr)	103		85-114		%	1		11/03/17 17:32
Toluene-d8 (surr)	99.2		89-112		%	1		11/03/17 17:32

Print Date: 11/06/2017 11:13:46AM

J flagging is activated

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178553012
Lab Project ID: 1178553

Collection Date: 10/23/17 12:40
Received Date: 10/25/17 09:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 17:32
Container ID: 1178553012-D

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/03/17 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771009 [VXX/31607]
Blank Lab ID: 1422646

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	104	50-150		%

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/26/2017 11:45:00AM

Prep Batch: VXX31607
Prep Method: SW5030B
Prep Date/Time: 10/26/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31607]
Blank Spike Lab ID: 1422649
Date Analyzed: 10/26/2017 12:43

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31607]
Spike Duplicate Lab ID: 1422650
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	1.01	101	1.00	1.03	103	(60-120)	1.70	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	106	106	0.0500	107	107	(50-150)	1.10	

Batch Information

Analytical Batch: **VFC13966**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX31607**
Prep Method: **SW5030B**
Prep Date/Time: **10/26/2017 08:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771011 [VXX/31608]
Blank Lab ID: 1422651

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	98.7	50-150		%

Batch Information

Analytical Batch: VFC13966
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/26/2017 8:59:00PM

Prep Batch: VXX31608
Prep Method: SW5030B
Prep Date/Time: 10/26/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31608]
Blank Spike Lab ID: 1422654
Date Analyzed: 10/27/2017 02:04

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31608]
Spike Duplicate Lab ID: 1422655
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	1.02	102	1.00	1.01	101	(60-120)	1.30	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	110	110	0.0500	102	102	(50-150)	7.50	

Batch Information

Analytical Batch: **VFC13966**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX31608**
Prep Method: **SW5030B**
Prep Date/Time: **10/26/2017 08:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771559 [VXX/31665]
Blank Lab ID: 1424201

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	1.50	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Method Blank

Blank ID: MB for HBN 1771559 [VXX/31665]
Blank Lab ID: 1424201

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	2.50U	5.00	1.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	103	81-118		%
4-Bromofluorobenzene (surr)	101	85-114		%
Toluene-d8 (surr)	102	89-112		%

Method Blank

Blank ID: MB for HBN 1771559 [VXX/31665]
Blank Lab ID: 1424201

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Instrument: Agilent 7890-75MS
Analyst: NRO
Analytical Date/Time: 11/3/2017 2:38:00PM

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Leaching Blank

Blank ID: LB for HBN 1771557 [TCLP/9110]
Blank Lab ID: 1424200

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1-Dichloroethene	25.0U	50.0	15.5	ug/L
1,2-Dichloroethane	12.5U	25.0	7.50	ug/L
1,4-Dichlorobenzene	12.5U	25.0	7.50	ug/L
2-Butanone (MEK)	250U	500	155	ug/L
Benzene	10.0U	20.0	6.00	ug/L
Carbon tetrachloride	25.0U	50.0	15.5	ug/L
Chlorobenzene	12.5U	25.0	7.50	ug/L
Chloroform	25.0U	50.0	15.5	ug/L
Hexachlorobutadiene	64.0*	50.0	15.5	ug/L
Tetrachloroethene	25.0U	50.0	15.5	ug/L
Trichloroethene	25.0U	50.0	15.5	ug/L
Vinyl chloride	3.75U	7.50	2.50	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	105	81-118		%
4-Bromofluorobenzene (surr)	102	85-114		%
Toluene-d8 (surr)	99.6	89-112		%

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Instrument: Agilent 7890-75MS
Analyst: NRO
Analytical Date/Time: 11/3/2017 6:23:00PM

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Method Blank

Blank ID: SPW for HBN 1771558 [TCLP/9111
Blank Lab ID: 1424199

Matrix: Solid/Soil (Wet Weight)

QC for Samples:
1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Benzene	10.0U	20.0	6.00	ug/L
Ethylbenzene	25.0U	50.0	15.5	ug/L
o-Xylene	25.0U	50.0	15.5	ug/L
P & M -Xylene	50.0U	100	31.0	ug/L
Toluene	44.0J	50.0	15.5	ug/L

Batch Information

Analytical Batch: VMS17408
Analytical Method: SW8260C
Instrument: Agilent 7890-75MS
Analyst: NRO
Analytical Date/Time: 11/3/2017 6:06:00PM

Prep Batch: VXX31665
Prep Method: SW5030B
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31665]
Blank Spike Lab ID: 1424202
Date Analyzed: 11/03/2017 15:21

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31665]
Spike Duplicate Lab ID: 1424203
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	30.8	103	30	31.5	105	(78-124)	2.00	(< 20)
1,1,1-Trichloroethane	30	30.4	101	30	30.9	103	(74-131)	1.60	(< 20)
1,1,2,2-Tetrachloroethane	30	30.1	100	30	30.4	101	(71-121)	0.96	(< 20)
1,1,2-Trichloroethane	30	30.4	101	30	31.3	104	(80-119)	3.00	(< 20)
1,1-Dichloroethane	30	29.6	99	30	29.9	100	(77-125)	0.97	(< 20)
1,1-Dichloroethene	30	32.2	107	30	31.8	106	(71-131)	1.30	(< 20)
1,1-Dichloropropene	30	31.2	104	30	31.6	105	(79-125)	1.30	(< 20)
1,2,3-Trichlorobenzene	30	25.6	85	30	30.3	101	(69-129)	16.90	(< 20)
1,2,3-Trichloropropane	30	29.6	99	30	30.2	101	(73-122)	2.20	(< 20)
1,2,4-Trichlorobenzene	30	27.9	93	30	31.0	103	(69-130)	10.60	(< 20)
1,2,4-Trimethylbenzene	30	29.2	97	30	30.5	102	(79-124)	4.30	(< 20)
1,2-Dibromo-3-chloropropane	30	27.5	92	30	31.4	105	(62-128)	13.30	(< 20)
1,2-Dibromoethane	30	29.5	98	30	30.3	101	(77-121)	2.80	(< 20)
1,2-Dichlorobenzene	30	29.6	99	30	30.3	101	(80-119)	2.30	(< 20)
1,2-Dichloroethane	30	28.1	94	30	28.6	95	(73-128)	1.80	(< 20)
1,2-Dichloropropane	30	30.7	102	30	31.3	104	(78-122)	1.80	(< 20)
1,3,5-Trimethylbenzene	30	29.4	98	30	30.4	101	(75-124)	3.40	(< 20)
1,3-Dichlorobenzene	30	29.8	100	30	30.6	102	(80-119)	2.40	(< 20)
1,3-Dichloropropane	30	29.7	99	30	31.0	103	(80-119)	4.40	(< 20)
1,4-Dichlorobenzene	30	29.6	99	30	30.1	100	(79-118)	1.70	(< 20)
2,2-Dichloropropane	30	30.3	101	30	30.6	102	(60-139)	0.89	(< 20)
2-Butanone (MEK)	90	71.7	80	90	86.8	97	(56-143)	19.10	(< 20)
2-Chlorotoluene	30	29.7	99	30	30.7	102	(79-122)	3.50	(< 20)
2-Hexanone	90	80.2	89	90	89.6	100	(57-139)	11.10	(< 20)
4-Chlorotoluene	30	29.8	100	30	30.5	102	(78-122)	2.30	(< 20)
4-Isopropyltoluene	30	30.3	101	30	30.4	101	(77-127)	0.46	(< 20)
4-Methyl-2-pentanone (MIBK)	90	85.6	95	90	89.0	99	(67-130)	3.90	(< 20)
Benzene	30	30.0	100	30	30.7	102	(79-120)	2.10	(< 20)
Bromobenzene	30	30.3	101	30	30.6	102	(80-120)	1.10	(< 20)
Bromochloromethane	30	30.3	101	30	29.7	99	(78-123)	2.00	(< 20)
Bromodichloromethane	30	30.9	103	30	31.0	103	(79-125)	0.29	(< 20)
Bromoform	30	31.5	105	30	32.2	107	(66-130)	2.00	(< 20)
Bromomethane	30	34.5	115	30	33.3	111	(53-141)	3.50	(< 20)
Carbon disulfide	45	46.4	103	45	45.8	102	(64-133)	1.30	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31665]
Blank Spike Lab ID: 1424202
Date Analyzed: 11/03/2017 15:21

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31665]
Spike Duplicate Lab ID: 1424203
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	30.8	103	30	31.4	105	(72-136)	2.10	(< 20)
Chlorobenzene	30	29.1	97	30	30.2	101	(82-118)	3.70	(< 20)
Chloroethane	30	30.7	102	30	32.4	108	(60-138)	5.60	(< 20)
Chloroform	30	29.8	99	30	29.9	100	(79-124)	0.34	(< 20)
Chloromethane	30	31.8	106	30	31.2	104	(50-139)	2.20	(< 20)
cis-1,2-Dichloroethene	30	30.1	100	30	30.0	100	(78-123)	0.30	(< 20)
cis-1,3-Dichloropropene	30	30.5	102	30	31.0	103	(75-124)	1.60	(< 20)
Dibromochloromethane	30	31.3	104	30	32.0	107	(74-126)	2.30	(< 20)
Dibromomethane	30	29.9	100	30	29.7	99	(79-123)	0.74	(< 20)
Dichlorodifluoromethane	30	32.5	108	30	31.4	105	(32-152)	3.50	(< 20)
Ethylbenzene	30	29.6	99	30	30.8	103	(79-121)	3.80	(< 20)
Freon-113	45	48.3	107	45	48.2	107	(70-136)	0.25	(< 20)
Hexachlorobutadiene	30	29.0	97	30	30.4	101	(66-134)	4.80	(< 20)
Isopropylbenzene (Cumene)	30	29.4	98	30	30.6	102	(72-131)	4.00	(< 20)
Methylene chloride	30	31.7	106	30	31.1	104	(74-124)	1.80	(< 20)
Methyl-t-butyl ether	45	44.8	100	45	45.9	102	(71-124)	2.40	(< 20)
Naphthalene	30	26.0	87	30	30.6	102	(61-128)	16.20	(< 20)
n-Butylbenzene	30	29.4	98	30	30.9	103	(75-128)	4.80	(< 20)
n-Propylbenzene	30	30.3	101	30	31.1	104	(76-126)	2.60	(< 20)
o-Xylene	30	28.7	96	30	30.0	100	(78-122)	4.40	(< 20)
P & M -Xylene	60	58.0	97	60	61.5	102	(80-121)	5.80	(< 20)
sec-Butylbenzene	30	29.9	100	30	30.4	101	(77-126)	1.70	(< 20)
Styrene	30	29.1	97	30	30.7	102	(78-123)	5.60	(< 20)
tert-Butylbenzene	30	30.1	100	30	30.5	102	(78-124)	1.10	(< 20)
Tetrachloroethene	30	31.0	103	30	31.6	105	(74-129)	1.90	(< 20)
Toluene	30	30.2	101	30	31.1	104	(80-121)	2.70	(< 20)
trans-1,2-Dichloroethene	30	30.4	101	30	29.7	99	(75-124)	2.30	(< 20)
trans-1,3-Dichloropropene	30	30.7	102	30	31.8	106	(73-127)	3.50	(< 20)
Trichloroethene	30	30.6	102	30	31.0	103	(79-123)	1.40	(< 20)
Trichlorofluoromethane	30	33.1	110	30	32.1	107	(65-141)	2.90	(< 20)
Vinyl acetate	30	28.1	94	30	29.2	97	(54-146)	3.70	(< 20)
Vinyl chloride	30	32.7	109	30	31.6	105	(58-137)	3.40	(< 20)
Xylenes (total)	90	86.7	96	90	91.5	102	(79-121)	5.30	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31665]
Blank Spike Lab ID: 1424202
Date Analyzed: 11/03/2017 15:21

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31665]
Spike Duplicate Lab ID: 1424203
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011, 1178553012

Results by **SW8260C**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	97.9	98	30	97.7	98	(81-118)	0.24	
4-Bromofluorobenzene (surr)	30	100	100	30	99.5	100	(85-114)	0.63	
Toluene-d8 (surr)	30	100	100	30	100	100	(89-112)	0.07	

Batch Information

Analytical Batch: **VMS17408**
Analytical Method: **SW8260C**
Instrument: **Agilent 7890-75MS**
Analyst: **NRO**

Prep Batch: **VXX31665**
Prep Method: **SW5030B**
Prep Date/Time: **11/03/2017 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1771561 [VXX/31666]
Blank Lab ID: 1424206

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	1.50	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Method Blank

Blank ID: MB for HBN 1771561 [VXX/31666]
Blank Lab ID: 1424206

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	2.50U	5.00	1.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	106	81-118		%
4-Bromofluorobenzene (surr)	103	85-114		%
Toluene-d8 (surr)	96	89-112		%

Method Blank

Blank ID: MB for HBN 1771561 [VXX/31666]
Blank Lab ID: 1424206

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17409
Analytical Method: SW8260C
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/3/2017 9:39:00AM

Prep Batch: VXX31666
Prep Method: SW5030B
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31666]
Blank Spike Lab ID: 1424207
Date Analyzed: 11/03/2017 10:36

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31666]
Spike Duplicate Lab ID: 1424208
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	28.1	94	30	28.9	96	(78-124)	3.00	(< 20)
1,1,1-Trichloroethane	30	29.3	98	30	29.9	100	(74-131)	2.00	(< 20)
1,1,2,2-Tetrachloroethane	30	31.4	105	30	31.2	104	(71-121)	0.42	(< 20)
1,1,2-Trichloroethane	30	30.2	101	30	30.6	102	(80-119)	1.40	(< 20)
1,1-Dichloroethane	30	27.1	90	30	27.3	91	(77-125)	0.48	(< 20)
1,1-Dichloroethene	30	31.1	104	30	31.0	103	(71-131)	0.16	(< 20)
1,1-Dichloropropene	30	31.4	105	30	32.1	107	(79-125)	2.30	(< 20)
1,2,3-Trichlorobenzene	30	31.2	104	30	34.6	115	(69-129)	10.40	(< 20)
1,2,3-Trichloropropane	30	31.1	104	30	31.3	104	(73-122)	0.54	(< 20)
1,2,4-Trichlorobenzene	30	31.1	104	30	33.0	110	(69-130)	6.00	(< 20)
1,2,4-Trimethylbenzene	30	28.1	94	30	29.0	97	(79-124)	3.40	(< 20)
1,2-Dibromo-3-chloropropane	30	33.5	112	30	35.4	118	(62-128)	5.40	(< 20)
1,2-Dibromoethane	30	29.8	99	30	29.9	100	(77-121)	0.30	(< 20)
1,2-Dichlorobenzene	30	29.6	99	30	30.2	101	(80-119)	2.00	(< 20)
1,2-Dichloroethane	30	30.6	102	30	30.4	101	(73-128)	0.66	(< 20)
1,2-Dichloropropane	30	30.3	101	30	30.2	101	(78-122)	0.30	(< 20)
1,3,5-Trimethylbenzene	30	29.3	98	30	30.4	101	(75-124)	3.70	(< 20)
1,3-Dichlorobenzene	30	29.9	100	30	30.3	101	(80-119)	1.10	(< 20)
1,3-Dichloropropane	30	30.2	101	30	30.7	102	(80-119)	1.70	(< 20)
1,4-Dichlorobenzene	30	29.6	99	30	30.2	101	(79-118)	1.90	(< 20)
2,2-Dichloropropane	30	30.3	101	30	30.0	100	(60-139)	1.20	(< 20)
2-Butanone (MEK)	90	84.8	94	90	90.8	101	(56-143)	6.80	(< 20)
2-Chlorotoluene	30	30.8	103	30	31.9	106	(79-122)	3.40	(< 20)
2-Hexanone	90	83.2	93	90	93.3	104	(57-139)	11.40	(< 20)
4-Chlorotoluene	30	30.3	101	30	31.8	106	(78-122)	5.00	(< 20)
4-Isopropyltoluene	30	29.9	100	30	30.6	102	(77-127)	2.50	(< 20)
4-Methyl-2-pentanone (MIBK)	90	83.1	92	90	88.1	98	(67-130)	5.80	(< 20)
Benzene	30	29.7	99	30	30.6	102	(79-120)	3.00	(< 20)
Bromobenzene	30	28.9	96	30	29.1	97	(80-120)	0.90	(< 20)
Bromochloromethane	30	28.7	96	30	28.4	95	(78-123)	1.30	(< 20)
Bromodichloromethane	30	30.4	101	30	30.1	100	(79-125)	0.99	(< 20)
Bromoform	30	29.6	99	30	29.9	100	(66-130)	1.00	(< 20)
Bromomethane	30	28.2	94	30	27.5	92	(53-141)	2.60	(< 20)
Carbon disulfide	45	49.6	110	45	49.0	109	(64-133)	1.30	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31666]
Blank Spike Lab ID: 1424207
Date Analyzed: 11/03/2017 10:36

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31666]
Spike Duplicate Lab ID: 1424208
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	30.8	103	30	31.3	104	(72-136)	1.40	(< 20)
Chlorobenzene	30	29.0	97	30	29.5	98	(82-118)	1.60	(< 20)
Chloroethane	30	30.9	103	30	35.2	117	(60-138)	13.10	(< 20)
Chloroform	30	27.4	92	30	27.7	92	(79-124)	0.83	(< 20)
Chloromethane	30	28.6	95	30	27.8	93	(50-139)	2.80	(< 20)
cis-1,2-Dichloroethene	30	27.0	90	30	27.1	90	(78-123)	0.48	(< 20)
cis-1,3-Dichloropropene	30	31.6	105	30	31.3	104	(75-124)	0.92	(< 20)
Dibromochloromethane	30	29.0	97	30	29.3	98	(74-126)	0.93	(< 20)
Dibromomethane	30	28.3	94	30	28.0	93	(79-123)	0.96	(< 20)
Dichlorodifluoromethane	30	28.5	95	30	28.5	95	(32-152)	0.04	(< 20)
Ethylbenzene	30	28.7	96	30	29.7	99	(79-121)	3.30	(< 20)
Freon-113	45	47.9	106	45	48.1	107	(70-136)	0.46	(< 20)
Hexachlorobutadiene	30	31.1	104	30	31.9	106	(66-134)	2.40	(< 20)
Isopropylbenzene (Cumene)	30	31.2	104	30	32.1	107	(72-131)	3.00	(< 20)
Methylene chloride	30	29.0	97	30	29.2	97	(74-124)	0.52	(< 20)
Methyl-t-butyl ether	45	46.6	103	45	46.6	104	(71-124)	0.02	(< 20)
Naphthalene	30	31.4	105	30	35.5	118	(61-128)	12.10	(< 20)
n-Butylbenzene	30	30.7	102	30	30.9	103	(75-128)	0.68	(< 20)
n-Propylbenzene	30	31.1	104	30	32.3	108	(76-126)	3.90	(< 20)
o-Xylene	30	28.4	95	30	29.8	99	(78-122)	5.10	(< 20)
P & M -Xylene	60	57.3	96	60	59.8	100	(80-121)	4.20	(< 20)
sec-Butylbenzene	30	31.2	104	30	32.0	107	(77-126)	2.50	(< 20)
Styrene	30	30.7	102	30	31.6	105	(78-123)	3.10	(< 20)
tert-Butylbenzene	30	30.6	102	30	31.8	106	(78-124)	3.70	(< 20)
Tetrachloroethene	30	29.7	99	30	31.7	106	(74-129)	6.40	(< 20)
Toluene	30	28.8	96	30	29.3	98	(80-121)	1.50	(< 20)
trans-1,2-Dichloroethene	30	29.4	98	30	29.7	99	(75-124)	1.00	(< 20)
trans-1,3-Dichloropropene	30	29.9	100	30	29.6	99	(73-127)	0.94	(< 20)
Trichloroethene	30	29.9	100	30	30.6	102	(79-123)	2.30	(< 20)
Trichlorofluoromethane	30	31.3	104	30	31.6	105	(65-141)	0.67	(< 20)
Vinyl acetate	30	35.3	118	30	32.1	107	(54-146)	9.60	(< 20)
Vinyl chloride	30	30.3	101	30	31.0	103	(58-137)	2.30	(< 20)
Xylenes (total)	90	85.7	95	90	89.6	100	(79-121)	4.50	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [VXX31666]
Blank Spike Lab ID: 1424207
Date Analyzed: 11/03/2017 10:36

Spike Duplicate ID: LCSD for HBN 1178553 [VXX31666]
Spike Duplicate Lab ID: 1424208
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005

Results by **SW8260C**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	94.9	95	30	93.2	93	(81-118)	1.80	
4-Bromofluorobenzene (surr)	30	98.2	98	30	97.4	97	(85-114)	0.78	
Toluene-d8 (surr)	30	102	102	30	102	102	(89-112)	0.43	

Batch Information

Analytical Batch: **VMS17409**
Analytical Method: **SW8260C**
Instrument: **VSA Agilent GC/MS 7890B/5977A**
Analyst: **NRO**

Prep Batch: **VXX31666**
Prep Method: **SW5030B**
Prep Date/Time: **11/03/2017 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1770920 [XXX/38745]
Blank Lab ID: 1422260

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	87.1	60-120		%

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 10/27/2017 3:16:00AM

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/2017 8:49:39AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [XXX38745]
Blank Spike Lab ID: 1422261
Date Analyzed: 10/27/2017 03:26

Spike Duplicate ID: LCSD for HBN 1178553 [XXX38745]
Spike Duplicate Lab ID: 1422262
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	19.3	96	20	18.9	95	(75-125)	1.70	(< 20)
Surrogates									
5a Androstane (surr)	0.4	95.9	96	0.4	93.4	93	(60-120)	2.70	

Batch Information

Analytical Batch: **XFC13916**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38745**
Prep Method: **SW3520C**
Prep Date/Time: **10/26/2017 08:49**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1770920 [XXX/38745]
Blank Lab ID: 1422260

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.250U	0.500	0.150	mg/L
Surrogates				
n-Triacontane-d62 (surr)	89.5	60-120		%

Batch Information

Analytical Batch: XFC13916
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 10/27/2017 3:16:00AM

Prep Batch: XXX38745
Prep Method: SW3520C
Prep Date/Time: 10/26/2017 8:49:39AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178553 [XXX38745]
Blank Spike Lab ID: 1422261
Date Analyzed: 10/27/2017 03:26

Spike Duplicate ID: LCSD for HBN 1178553 [XXX38745]
Spike Duplicate Lab ID: 1422262
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178553001, 1178553002, 1178553003, 1178553004, 1178553005, 1178553006, 1178553007, 1178553008, 1178553009, 1178553010, 1178553011

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	19.7	99	20	19.4	97	(60-120)	1.60	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4	89.3	89	0.4	87.9	88	(60-120)	1.60	

Batch Information

Analytical Batch: **XFC13916**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38745**
Prep Method: **SW3520C**
Prep Date/Time: **10/26/2017 08:49**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Print Date: 11/06/2017 11:20:48AM

1178553

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

Laboratory SGS Page 1 of 2
Attn:

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

2043 Westport Center Drive
St. Louis, MO 63146-3564
(314) 699-9660

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907) 561-2120

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	VOCs 8260	GRO AK101 DRO/RRO AK102/103					Total Number of Containers	Remarks/Matrix
TWP17-24	1 A-H	12:40	10-23-17		X	3	3	2				8	GW
TWP17-14	2 A-H	12:59	10-23-17										
TWP17-30	3 A-H	14:30											
TWP17-29	4 A-H	14:45											
TWP17-42	5 A-H	15:52											
TWP17-40	6 A-H	16:06											
TWP17-140	7 A-H	15:56											
TWP17-28	8 A-H	17:04											
TWP17-22	9 A-H	18:06											
TWP17-16	10 A-H	10:06	10-24-17										

Project Information	Sample Receipt
Project Number: 20056-004	Total Number of Containers: 88
Project Name: Miller Salvage	COC Seals/Intact? Y/N/NA:
Contact: ALF	Received Good Cond./Cold:
Ongoing Project? Yes ☒ No ☐	Delivery Method:
Sampler: APW, JJM	(attach shipping bill, if any): Hand

Instructions
Requested Turnaround Time: Rush 4-5 day
Special Instructions: Bill to S&W

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 15:30	Signature: Time: 1630	Signature: Time:
Printed Name: Andrew Frith Date: 10-24-17	Printed Name: Nicole Warner Date: 10/24/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1330	Signature: Time:	Signature: Time: 0430
Printed Name: Nicole Warner Date: 10/24/17	Printed Name: Date:	Printed Name: Hannah Deeney Date: 10/25/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

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F-19-91/UR

TB 4.2, 1.4 ANC TB 1.9 DID CS 1F/113

No. 34762

1178553

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

Laboratory SGS Page 2 of 2
Attn:

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2355 Hill Road
Fairbanks, AK 99709
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2255 S.W. Canyon Road
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1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	VOCs 8260	GRO AK101	DRO/RRO AK102/103				Total Number of Containers	Remarks/Matrix
TWP17-10	(11) A-H	10:35	10-24-17		X	3	3	2				8	GW (In cooler with VOA vials)
Trip Blank	(12) A-C					X							
Trip Blank	(12) D-F						X						

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Fritz Time: 13:30	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-24-17	Printed Name: Nicole Warner Date: 10/24/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:
Received By: 1.	**Received By: 2.**	**Received By: 3.**
Signature: Time: 1330	Signature: Time:	Signature: Time: 0930
Printed Name: Nicole Warner Date: 10/24/17	Printed Name: Date:	Printed Name: Hannah Deeney Date: 10/25/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 4.2, 1.4

No. 34761

SGS

1178553

~~SGS WO#~~

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	~~Yes~~ No (N/A) Yes No N/A	✓*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 4.2 w/Therm. ID: D23 Cooler ID: 2 @ 1.4 w/Therm. ID: D25 Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	~~Yes~~ No Yes No ~~N/A~~ Yes No (N/A)	□*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: (Client (hand carried)) Other: ____	Tracking/AB# : Or see attached (Or N/A)	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble Wrap) Separate plastic bags Vermiculite Other: ____	(Yes) No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	~~Yes~~ No N/A	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	~~Yes~~ No N/A (Yes) No N/A	

Additional notes (if applicable):

4-5 day rush requested (due 11/1/17)

Profile #:

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

Cooler Packing Form For Fairbanks

Cooler ID 5

Cooler Temperature ~~5~~ 1.9 D10
~~D10~~ 10/25/17

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178553	All	

e-Sample Receipt Form

SGS Workorder #: **1178553**

1 1 7 8 5 5 3

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		N/A Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Yes	1F 1B
COC accompanied samples?	Yes	
N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 5 @ 1.9 °C Therm. ID: D10
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	Yes	
		N/A ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Yes	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	Yes	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178553001-A	HCL to pH < 2	OK	1178553006-C	HCL to pH < 2	OK
1178553001-B	HCL to pH < 2	OK	1178553006-D	HCL to pH < 2	OK
1178553001-C	HCL to pH < 2	OK	1178553006-E	HCL to pH < 2	OK
1178553001-D	HCL to pH < 2	OK	1178553006-F	HCL to pH < 2	OK
1178553001-E	HCL to pH < 2	OK	1178553006-G	HCL to pH < 2	OK
1178553001-F	HCL to pH < 2	OK	1178553006-H	HCL to pH < 2	OK
1178553001-G	HCL to pH < 2	OK	1178553007-A	HCL to pH < 2	OK
1178553001-H	HCL to pH < 2	OK	1178553007-B	HCL to pH < 2	OK
1178553002-A	HCL to pH < 2	OK	1178553007-C	HCL to pH < 2	OK
1178553002-B	HCL to pH < 2	OK	1178553007-D	HCL to pH < 2	OK
1178553002-C	HCL to pH < 2	OK	1178553007-E	HCL to pH < 2	OK
1178553002-D	HCL to pH < 2	OK	1178553007-F	HCL to pH < 2	OK
1178553002-E	HCL to pH < 2	OK	1178553007-G	HCL to pH < 2	OK
1178553002-F	HCL to pH < 2	OK	1178553007-H	HCL to pH < 2	OK
1178553002-G	HCL to pH < 2	OK	1178553008-A	HCL to pH < 2	OK
1178553002-H	HCL to pH < 2	OK	1178553008-B	HCL to pH < 2	OK
1178553003-A	HCL to pH < 2	OK	1178553008-C	HCL to pH < 2	OK
1178553003-B	HCL to pH < 2	OK	1178553008-D	HCL to pH < 2	OK
1178553003-C	HCL to pH < 2	OK	1178553008-E	HCL to pH < 2	OK
1178553003-D	HCL to pH < 2	OK	1178553008-F	HCL to pH < 2	OK
1178553003-E	HCL to pH < 2	OK	1178553008-G	HCL to pH < 2	OK
1178553003-F	HCL to pH < 2	OK	1178553008-H	HCL to pH < 2	OK
1178553003-G	HCL to pH < 2	OK	1178553009-A	HCL to pH < 2	OK
1178553003-H	HCL to pH < 2	OK	1178553009-B	HCL to pH < 2	OK
1178553004-A	HCL to pH < 2	OK	1178553009-C	HCL to pH < 2	OK
1178553004-B	HCL to pH < 2	OK	1178553009-D	HCL to pH < 2	OK
1178553004-C	HCL to pH < 2	OK	1178553009-E	HCL to pH < 2	OK
1178553004-D	HCL to pH < 2	OK	1178553009-F	HCL to pH < 2	OK
1178553004-E	HCL to pH < 2	OK	1178553009-G	HCL to pH < 2	OK
1178553004-F	HCL to pH < 2	OK	1178553009-H	HCL to pH < 2	OK
1178553004-G	HCL to pH < 2	OK	1178553010-A	HCL to pH < 2	OK
1178553004-H	HCL to pH < 2	OK	1178553010-B	HCL to pH < 2	OK
1178553005-A	HCL to pH < 2	OK	1178553010-C	HCL to pH < 2	OK
1178553005-B	HCL to pH < 2	OK	1178553010-D	HCL to pH < 2	OK
1178553005-C	HCL to pH < 2	OK	1178553010-E	HCL to pH < 2	OK
1178553005-D	HCL to pH < 2	OK	1178553010-F	HCL to pH < 2	OK
1178553005-E	HCL to pH < 2	OK	1178553010-G	HCL to pH < 2	OK
1178553005-F	HCL to pH < 2	OK	1178553010-H	HCL to pH < 2	OK
1178553005-G	HCL to pH < 2	OK	1178553011-A	HCL to pH < 2	OK
1178553005-H	HCL to pH < 2	OK	1178553011-B	HCL to pH < 2	OK
1178553006-A	HCL to pH < 2	OK	1178553011-C	HCL to pH < 2	OK
1178553006-B	HCL to pH < 2	OK	1178553011-D	HCL to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178553011-E	HCL to pH < 2	OK			
1178553011-F	HCL to pH < 2	OK			
1178553011-G	HCL to pH < 2	OK			
1178553011-H	HCL to pH < 2	OK			
1178553012-A	HCL to pH < 2	OK			
1178553012-B	HCL to pH < 2	OK			
1178553012-C	HCL to pH < 2	OK			
1178553012-D	HCL to pH < 2	OK			
1178553012-E	HCL to pH < 2	OK			
1178553012-F	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

To: Shannon & Wilson-Fairbanks
2355 Hill Road
Fairbanks, AK 99709
(907)479-0600

Report Number: **1178562**

Client Project: **20056-004 Miller Salvage**

Dear Rena Flint,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jennifer at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Jennifer Dawkins Date
Project Manager
Jennifer.Dawkins@sgs.com

Print Date: 11/13/2017 4:13:32PM

Case Narrative

SGS Client: Shannon & Wilson-Fairbanks

SGS Project: 1178562

Project Name/Site: 20056-004 Miller Salvage

Refer to sample receipt form for information on sample condition.

TWP17-6 **1178562035 PS**
8260C - Surrogate recovery for 1,2-dichloroethane-D4 (124%) does not meet QC criteria. Associated analytes are not detected.

TWP17-40 **1178562042 PS**
8260B SIM - Sample had a 7 mm bubble in the vial.

TWP17-140 **1178562043 PS**
8260B SIM - Sample had a 7 mm bubble in the vial.

XXX/38789] **1423754 MB**
AK103 - RRO is detect in the MB greater than one half the LOQ, but less than the LOQ.

VXX/3166 **1424239 LCSD**
8260C - LCSD RPD for bromomethane (36.5) does not meet QC criteria. This analyte was not detected in associated samples.

VXX/3168 **1424652 LCSD**
8260C - LCSD recovery for bromomethane (142%) does not meet QC criteria. This analyte was not detected above the LOQ in associated samples.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to the associated field samples.

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

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SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are **AK00971 DW Chemistry (Provisionally Certified as of 10/12/2017) & Microbiology (Provisionally Certified as of 9/21/2017)** & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
TWP17-31	1178562001	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-26	1178562002	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-126	1178562003	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-19	1178562004	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-11	1178562005	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-2	1178562006	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-3	1178562007	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-20	1178562008	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-18	1178562009	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-13	1178562010	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-7	1178562011	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-5	1178562012	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-15	1178562013	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-25	1178562014	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-125	1178562015	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-23	1178562016	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-36	1178562017	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-27	1178562018	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-35	1178562019	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-39	1178562020	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-1	1178562021	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-101	1178562022	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-4	1178562023	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-8	1178562024	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-17	1178562025	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-21	1178562026	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-32	1178562027	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-34	1178562028	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-37	1178562029	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-33	1178562030	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-41	1178562031	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-43	1178562032	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-44	1178562033	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-12	1178562034	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-6	1178562035	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-106	1178562036	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-9	1178562037	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-38	1178562038	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-22	1178562039	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
TWP17-14	1178562040	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-29	1178562041	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-40	1178562042	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-140	1178562043	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-10	1178562044	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
TWP17-122	1178562045	10/23/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 1	1178562046	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 2	1178562047	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 3	1178562048	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 4	1178562049	10/24/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 5	1178562050	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 6	1178562051	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)
Trip Blank 7	1178562052	10/25/2017	10/27/2017	Water (Surface, Eff., Ground)

Method	Method Description
8270D SIM LV (PAH)	8270 PAH SIM GC/MS Liq/Liq ext. LV
AK103	DRO/RRO Low Volume Water
AK102	DRO/RRO Low Volume Water
AK101	Gasoline Range Organics (W)
SW6020A	Metals by ICP-MS
SW8260B-SIM	SW8260-SIM (W)
SW8260C	Volatile Organic Compounds (W) FULL

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Detectable Results Summary

Client Sample ID: **TWP17-31**
Lab Sample ID: 1178562001

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.426J	mg/L
	Residual Range Organics	0.273J	mg/L
Volatile GC/MS	Benzene	0.520	ug/L

Client Sample ID: **TWP17-26**
Lab Sample ID: 1178562002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.356J	mg/L
	Residual Range Organics	0.266J	mg/L

Client Sample ID: **TWP17-126**
Lab Sample ID: 1178562003

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.266J	mg/L
	Residual Range Organics	0.247J	mg/L

Client Sample ID: **TWP17-19**
Lab Sample ID: 1178562004

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	20.6	ug/L
	Barium	137	ug/L
	Lead	0.829J	ug/L
Semivolatile Organic Fuels	Residual Range Organics	0.170J	mg/L

Client Sample ID: **TWP17-11**
Lab Sample ID: 1178562005

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.186J	mg/L

Client Sample ID: **TWP17-2**
Lab Sample ID: 1178562006

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.235J	mg/L

Client Sample ID: **TWP17-3**
Lab Sample ID: 1178562007

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.220J	mg/L

Client Sample ID: **TWP17-20**
Lab Sample ID: 1178562008

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.196J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	0.960J	ug/L
	Trichloroethene	11.3	ug/L

Client Sample ID: **TWP17-18**
Lab Sample ID: 1178562009

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.423J	mg/L
	Residual Range Organics	0.461J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	0.330J	ug/L
	trans-1,2-Dichloroethene	0.900J	ug/L
	Trichloroethene	12.1	ug/L

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Detectable Results Summary

Client Sample ID: **TWP17-13**
Lab Sample ID: 1178562010

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.297J	mg/L
Volatile GC/MS	Benzene	0.290J	ug/L

Client Sample ID: **TWP17-7**
Lab Sample ID: 1178562011

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	27.9	ug/L
	Barium	456	ug/L
	Cadmium	0.781J	ug/L
	Chromium	155	ug/L
	Lead	38.8	ug/L
	Mercury	0.143J	ug/L
Semivolatile Organic Fuels	Residual Range Organics	0.222J	mg/L

Client Sample ID: **TWP17-5**
Lab Sample ID: 1178562012

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.209J	mg/L
	Residual Range Organics	0.345J	mg/L

Client Sample ID: **TWP17-15**
Lab Sample ID: 1178562013

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.234J	mg/L
	Residual Range Organics	0.321J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	14.5	ug/L
	trans-1,2-Dichloroethene	1.72	ug/L
	Trichloroethene	1.38	ug/L

Client Sample ID: **TWP17-25**
Lab Sample ID: 1178562014

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	12.4	ug/L
	Barium	197	ug/L
	Chromium	8.73	ug/L
	Lead	1.20	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.78	mg/L
	Residual Range Organics	1.55	mg/L
Volatile Fuels	Gasoline Range Organics	0.0594J	mg/L
Volatile GC/MS	1,1-Dichloroethane	0.950J	ug/L
	1,2,4-Trimethylbenzene	0.350J	ug/L
	1,2-Dichloroethane	0.330J	ug/L
	Benzene	9.00	ug/L
	Ethylbenzene	0.340J	ug/L

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Detectable Results Summary

Client Sample ID: **TWP17-125**
Lab Sample ID: 1178562015

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.75	mg/L
	Residual Range Organics	1.68	mg/L
Volatile Fuels	Gasoline Range Organics	0.0604J	mg/L
Volatile GC/MS	1,1-Dichloroethane	0.900J	ug/L
	1,2,4-Trimethylbenzene	0.370J	ug/L
	1,2-Dichloroethane	0.270J	ug/L
	Benzene	8.69	ug/L
	Ethylbenzene	0.330J	ug/L

Client Sample ID: **TWP17-23**
Lab Sample ID: 1178562016

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	15.7	ug/L
	Barium	320	ug/L
	Chromium	35.3	ug/L
	Lead	6.41	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	0.265J	mg/L
	Residual Range Organics	0.431J	mg/L

Client Sample ID: **TWP17-36**
Lab Sample ID: 1178562017

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	17.6	ug/L
	Barium	182	ug/L
	Chromium	9.63	ug/L
	Lead	2.81	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	0.319J	mg/L
	Residual Range Organics	0.526	mg/L
Volatile Fuels	Gasoline Range Organics	0.0678J	mg/L
Volatile GC/MS	Benzene	0.550	ug/L
	Trichlorofluoromethane	9.95	ug/L

Client Sample ID: **TWP17-27**
Lab Sample ID: 1178562018

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.402J	mg/L
	Residual Range Organics	0.586	mg/L

Client Sample ID: **TWP17-35**
Lab Sample ID: 1178562019

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.265J	mg/L
	Residual Range Organics	0.441J	mg/L
Volatile GC/MS	Trichlorofluoromethane	9.80	ug/L

Client Sample ID: **TWP17-39**
Lab Sample ID: 1178562020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.230J	mg/L
	Residual Range Organics	0.359J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	0.500J	ug/L

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Detectable Results Summary

Client Sample ID: **TWP17-1**
Lab Sample ID: 1178562021
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	0.210J	mg/L
Residual Range Organics	0.375J	mg/L

Client Sample ID: **TWP17-4**
Lab Sample ID: 1178562023
Semivolatile Organic Fuels

Parameter	Result	Units
Residual Range Organics	0.221J	mg/L

Client Sample ID: **TWP17-8**
Lab Sample ID: 1178562024
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	0.213J	mg/L
Residual Range Organics	0.250J	mg/L

Client Sample ID: **TWP17-17**
Lab Sample ID: 1178562025
Semivolatile Organic Fuels
Volatile GC/MS

Parameter	Result	Units
Residual Range Organics	0.198J	mg/L
Dichlorodifluoromethane	1.52	ug/L
Trichlorofluoromethane	1.29	ug/L

Client Sample ID: **TWP17-21**
Lab Sample ID: 1178562026
Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	0.286J	mg/L
Residual Range Organics	0.415J	mg/L
cis-1,2-Dichloroethene	0.700J	ug/L

Client Sample ID: **TWP17-32**
Lab Sample ID: 1178562027
Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	0.171J	mg/L
Residual Range Organics	0.226J	mg/L
Trichlorofluoromethane	1.60	ug/L

Client Sample ID: **TWP17-34**
Lab Sample ID: 1178562028
Semivolatile Organic Fuels
Volatile GC/MS

Parameter	Result	Units
Residual Range Organics	0.252J	mg/L
Trichlorofluoromethane	9.27	ug/L

Client Sample ID: **TWP17-37**
Lab Sample ID: 1178562029
Semivolatile Organic Fuels
Volatile GC/MS

Parameter	Result	Units
Residual Range Organics	0.267J	mg/L
Benzene	0.150J	ug/L
Trichlorofluoromethane	4.65	ug/L

Client Sample ID: **TWP17-33**
Lab Sample ID: 1178562030
Semivolatile Organic Fuels
Volatile GC/MS

Parameter	Result	Units
Residual Range Organics	0.193J	mg/L
cis-1,2-Dichloroethene	0.370J	ug/L

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Detectable Results Summary

Client Sample ID: **TWP17-41**
Lab Sample ID: 1178562031

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.430J	mg/L
	Residual Range Organics	0.263J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	0.460J	ug/L

Client Sample ID: **TWP17-43**
Lab Sample ID: 1178562032

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.573	mg/L
	Residual Range Organics	0.257J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	1.50	ug/L
	Trichloroethene	1.86	ug/L

Client Sample ID: **TWP17-44**
Lab Sample ID: 1178562033

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.193J	mg/L
	Residual Range Organics	0.259J	mg/L
Volatile Fuels	Gasoline Range Organics	0.0535J	mg/L
Volatile GC/MS	cis-1,2-Dichloroethene	2.44	ug/L
	Tetrachloroethene	1.13	ug/L
	trans-1,2-Dichloroethene	0.360J	ug/L
	Trichloroethene	2.65	ug/L

Client Sample ID: **TWP17-12**
Lab Sample ID: 1178562034

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.416J	mg/L
	Residual Range Organics	0.535	mg/L

Client Sample ID: **TWP17-6**
Lab Sample ID: 1178562035

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.220J	mg/L

Client Sample ID: **TWP17-106**
Lab Sample ID: 1178562036

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.160J	mg/L

Client Sample ID: **TWP17-9**
Lab Sample ID: 1178562037

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.212J	mg/L
	Residual Range Organics	0.230J	mg/L

Client Sample ID: **TWP17-38**
Lab Sample ID: 1178562038

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	0.203J	mg/L
Volatile Fuels	Gasoline Range Organics	0.0640J	mg/L

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Detectable Results Summary

Client Sample ID: **TWP17-22**
Lab Sample ID: 1178562039
Metals by ICP/MS

Parameter	Result	Units
Arsenic	9.30	ug/L
Barium	99.6	ug/L
Chromium	8.83	ug/L
Lead	2.43	ug/L

Client Sample ID: **TWP17-14**
Lab Sample ID: 1178562040
Metals by ICP/MS

Parameter	Result	Units
Arsenic	16.9	ug/L
Barium	69.2	ug/L
Lead	0.371J	ug/L

Client Sample ID: **TWP17-29**
Lab Sample ID: 1178562041
Metals by ICP/MS

Parameter	Result	Units
Arsenic	22.9	ug/L
Barium	147	ug/L
Chromium	4.05	ug/L
Lead	54.8	ug/L

Client Sample ID: **TWP17-40**
Lab Sample ID: 1178562042
Metals by ICP/MS

Parameter	Result	Units
Arsenic	23.5	ug/L
Barium	184	ug/L
Lead	0.440J	ug/L

Client Sample ID: **TWP17-140**
Lab Sample ID: 1178562043
Metals by ICP/MS

Parameter	Result	Units
Arsenic	25.7	ug/L
Barium	192	ug/L
Lead	0.427J	ug/L

Client Sample ID: **TWP17-10**
Lab Sample ID: 1178562044
Metals by ICP/MS

Parameter	Result	Units
Arsenic	14.5	ug/L
Barium	149	ug/L
Lead	1.16	ug/L

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Results of **TWP17-31**

Client Sample ID: **TWP17-31**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562001
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.426	J	0.588	0.176	mg/L	1		11/02/17 21:55
Surrogates								
5a Androstane (surr)	76.8		50-150		%	1		11/02/17 21:55

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 21:55
Container ID: 1178562001-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.273	J	0.490	0.147	mg/L	1		11/02/17 21:55
Surrogates								
n-Triacontane-d62 (surr)	81.6		50-150		%	1		11/02/17 21:55

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 21:55
Container ID: 1178562001-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-31**

Client Sample ID: **TWP17-31**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562001
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 03:11
Surrogates								
4-Bromofluorobenzene (surr)	95		50-150		%	1		10/29/17 03:11

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 03:11
Container ID: 1178562001-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-31**

Client Sample ID: **TWP17-31**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562001
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:47
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 15:47
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
Benzene	0.520		0.400	0.120	ug/L	1		11/04/17 15:47
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 15:47
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47

Results of **TWP17-31**

Client Sample ID: **TWP17-31**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562001
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:47
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 15:47
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 15:47
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:47
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:47
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 15:47
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 15:47
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 15:47
4-Bromofluorobenzene (surr)	92.6		85-114		%	1		11/04/17 15:47
Toluene-d8 (surr)	96.7		89-112		%	1		11/04/17 15:47

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-31**

Client Sample ID: **TWP17-31**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562001
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 15:47
Container ID: 1178562001-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-26**

Client Sample ID: **TWP17-26**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562002
Lab Project ID: 1178562

Collection Date: 10/24/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.356	J	0.600	0.180	mg/L	1		11/02/17 22:05
Surrogates								
5a Androstane (surr)	84.9		50-150		%	1		11/02/17 22:05

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:05
Container ID: 1178562002-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.266	J	0.500	0.150	mg/L	1		11/02/17 22:05
Surrogates								
n-Triacontane-d62 (surr)	89.9		50-150		%	1		11/02/17 22:05

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:05
Container ID: 1178562002-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **TWP17-26**

Client Sample ID: **TWP17-26**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562002
Lab Project ID: 1178562

Collection Date: 10/24/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 03:30
Surrogates								
4-Bromofluorobenzene (surr)	96.3		50-150		%	1		10/29/17 03:30

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 03:30
Container ID: 1178562002-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-26**

Client Sample ID: **TWP17-26**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562002
Lab Project ID: 1178562

Collection Date: 10/24/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:04
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:04
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:04
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:04
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04

Results of **TWP17-26**

Client Sample ID: **TWP17-26**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562002
Lab Project ID: 1178562

Collection Date: 10/24/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:04
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:04
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:04
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:04
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:04
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:04
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:04
Surrogates								
1,2-Dichloroethane-D4 (surr)	106		81-118		%	1		11/04/17 16:04
4-Bromofluorobenzene (surr)	95.3		85-114		%	1		11/04/17 16:04
Toluene-d8 (surr)	95.3		89-112		%	1		11/04/17 16:04

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-26**

Client Sample ID: **TWP17-26**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562002
Lab Project ID: 1178562

Collection Date: 10/24/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:04
Container ID: 1178562002-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-126**

Client Sample ID: **TWP17-126**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562003
Lab Project ID: 1178562

Collection Date: 10/24/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.266	J	0.577	0.173	mg/L	1		11/02/17 22:14
Surrogates								
5a Androstane (surr)	79.5		50-150		%	1		11/02/17 22:14

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:14
Container ID: 1178562003-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.247	J	0.481	0.144	mg/L	1		11/02/17 22:14
Surrogates								
n-Triacontane-d62 (surr)	82.2		50-150		%	1		11/02/17 22:14

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:14
Container ID: 1178562003-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-126**

Client Sample ID: **TWP17-126**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562003
Lab Project ID: 1178562

Collection Date: 10/24/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 04:27
Surrogates								
4-Bromofluorobenzene (surr)	96.4		50-150		%	1		10/29/17 04:27

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 04:27
Container ID: 1178562003-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-126**

Client Sample ID: **TWP17-126**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562003
Lab Project ID: 1178562

Collection Date: 10/24/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:21
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:21
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:21
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:21
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:21
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:21
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:21
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:21
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:21
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:21
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:21

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J flagging is activated

Results of **TWP17-126**

Client Sample ID: **TWP17-126**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562003
Lab Project ID: 1178562

Collection Date: 10/24/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 16:21
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 16:21
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:21
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 16:21
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:21
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 16:21
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:21
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:21
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 16:21
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 16:21
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 16:21
4-Bromofluorobenzene (surr)	93.4		85-114		%	1		11/04/17 16:21
Toluene-d8 (surr)	99.2		89-112		%	1		11/04/17 16:21

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J flagging is activated

Results of **TWP17-126**

Client Sample ID: **TWP17-126**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562003
Lab Project ID: 1178562

Collection Date: 10/24/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:21
Container ID: 1178562003-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	20.6		5.00	1.50	ug/L	5		10/31/17 14:00
Barium	137		3.00	0.940	ug/L	5		10/31/17 14:00
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:00
Chromium	2.00 U		4.00	1.30	ug/L	5		10/31/17 14:00
Lead	0.829 J		1.00	0.310	ug/L	5		10/31/17 14:00
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:00
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:00
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:00

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:00
Container ID: 1178562004-N

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:02
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:02
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 16:02
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:02
Surrogates								
2-Methylnaphthalene-d10 (surr)	76.3		47-106		%	1		11/01/17 16:02
Fluoranthene-d10 (surr)	74.5		24-116		%	1		11/01/17 16:02

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 16:02
Container ID: 1178562004-L

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		11/02/17 22:24
Surrogates								
5a Androstane (surr)	89.2		50-150		%	1		11/02/17 22:24

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:24
Container ID: 1178562004-J

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.170	J	0.481	0.144	mg/L	1		11/02/17 22:24
Surrogates								
n-Triacontane-d62 (surr)	93.4		50-150		%	1		11/02/17 22:24

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:24
Container ID: 1178562004-J

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 04:46
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/29/17 04:46

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 04:46
Container ID: 1178562004-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:38
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:38
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:38
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:38
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:38
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:38
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:38
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:38
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:38
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:38
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:38
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 16:38
4-Bromofluorobenzene (surr)	95.4		85-114		%	1		11/04/17 16:38
Toluene-d8 (surr)	97.9		89-112		%	1		11/04/17 16:38

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:38
Container ID: 1178562004-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-19**

Client Sample ID: **TWP17-19**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562004
Lab Project ID: 1178562

Collection Date: 10/24/17 15:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0219	U	0.0438	0.0133	ug/L	1		11/01/17 21:47
Surrogates								
1,3-Dichlorobenzene (surr)	89		51-131		%	1		11/01/17 21:47

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 21:47
Container ID: 1178562004-G

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.728 mL
Prep Extract Vol: 1 mL

Results of **TWP17-11**

Client Sample ID: **TWP17-11**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562005
Lab Project ID: 1178562

Collection Date: 10/24/17 14:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		11/02/17 22:33
Surrogates								
5a Androstane (surr)	82		50-150		%	1		11/02/17 22:33

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:33
Container ID: 1178562005-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.186	J	0.481	0.144	mg/L	1		11/02/17 22:33
Surrogates								
n-Triacontane-d62 (surr)	84.2		50-150		%	1		11/02/17 22:33

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:33
Container ID: 1178562005-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-11**

Client Sample ID: **TWP17-11**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562005
Lab Project ID: 1178562

Collection Date: 10/24/17 14:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 05:05
Surrogates								
4-Bromofluorobenzene (surr)	97.7		50-150		%	1		10/29/17 05:05

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 05:05
Container ID: 1178562005-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-11**

Client Sample ID: **TWP17-11**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562005
Lab Project ID: 1178562

Collection Date: 10/24/17 14:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:55
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 20:31
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:55
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:55
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:55
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55

Results of **TWP17-11**

Client Sample ID: **TWP17-11**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562005
Lab Project ID: 1178562

Collection Date: 10/24/17 14:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:55
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:55
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:55
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:55
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:55
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:55
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/04/17 16:55
4-Bromofluorobenzene (surr)	93.1		85-114		%	1		11/04/17 16:55
Toluene-d8 (surr)	99.3		89-112		%	1		11/04/17 16:55

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-11**

Client Sample ID: **TWP17-11**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562005
Lab Project ID: 1178562

Collection Date: 10/24/17 14:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:55
Container ID: 1178562005-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 20:31
Container ID: 1178562005-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-2**

Client Sample ID: **TWP17-2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562006
Lab Project ID: 1178562

Collection Date: 10/24/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.283	U	0.566	0.170	mg/L	1		11/02/17 22:43
Surrogates								
5a Androstane (surr)	79.7		50-150		%	1		11/02/17 22:43

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:43
Container ID: 1178562006-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.235	J	0.472	0.142	mg/L	1		11/02/17 22:43
Surrogates								
n-Triacontane-d62 (surr)	82.2		50-150		%	1		11/02/17 22:43

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:43
Container ID: 1178562006-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-2**

Client Sample ID: **TWP17-2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562006
Lab Project ID: 1178562

Collection Date: 10/24/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 05:24
Surrogates								
4-Bromofluorobenzene (surr)	100		50-150		%	1		10/29/17 05:24

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 05:24
Container ID: 1178562006-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-2**

Client Sample ID: **TWP17-2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562006
Lab Project ID: 1178562

Collection Date: 10/24/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:12
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:12
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:12
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:12
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12

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Results of **TWP17-2**

Client Sample ID: **TWP17-2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562006
Lab Project ID: 1178562

Collection Date: 10/24/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:12
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 17:12
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 17:12
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:12
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:12
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 17:12
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 17:12
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 17:12
4-Bromofluorobenzene (surr)	94.1		85-114		%	1		11/04/17 17:12
Toluene-d8 (surr)	96.1		89-112		%	1		11/04/17 17:12

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J flagging is activated

Results of **TWP17-2**

Client Sample ID: **TWP17-2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562006
Lab Project ID: 1178562

Collection Date: 10/24/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:12
Container ID: 1178562006-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-3**

Client Sample ID: **TWP17-3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562007
Lab Project ID: 1178562

Collection Date: 10/24/17 12:37
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.305	U	0.610	0.183	mg/L	1		11/02/17 22:53
Surrogates								
5a Androstane (surr)	78		50-150		%	1		11/02/17 22:53

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 22:53
Container ID: 1178562007-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.220	J	0.508	0.152	mg/L	1		11/02/17 22:53
Surrogates								
n-Triacontane-d62 (surr)	81.5		50-150		%	1		11/02/17 22:53

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 22:53
Container ID: 1178562007-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Results of **TWP17-3**

Client Sample ID: **TWP17-3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562007
Lab Project ID: 1178562

Collection Date: 10/24/17 12:37
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 05:43
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	1		10/29/17 05:43

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 05:43
Container ID: 1178562007-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-3**

Client Sample ID: **TWP17-3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562007
Lab Project ID: 1178562

Collection Date: 10/24/17 12:37
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:29
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:29
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:29
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:29
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:29
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:29
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:29
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:29
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:29
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:29
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:29

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Results of **TWP17-3**

Client Sample ID: **TWP17-3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562007
Lab Project ID: 1178562

Collection Date: 10/24/17 12:37
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:29
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:29
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:29
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 17:29
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:29
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 17:29
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:29
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:29
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 17:29
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 17:29
Surrogates								
1,2-Dichloroethane-D4 (surr)	107		81-118		%	1		11/04/17 17:29
4-Bromofluorobenzene (surr)	95.2		85-114		%	1		11/04/17 17:29
Toluene-d8 (surr)	97.3		89-112		%	1		11/04/17 17:29

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Results of **TWP17-3**

Client Sample ID: **TWP17-3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562007
Lab Project ID: 1178562

Collection Date: 10/24/17 12:37
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:29
Container ID: 1178562007-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-20**

Client Sample ID: **TWP17-20**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562008
Lab Project ID: 1178562

Collection Date: 10/24/17 17:22
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.283	U	0.566	0.170	mg/L	1		11/02/17 23:02
Surrogates								
5a Androstane (surr)	78.8		50-150		%	1		11/02/17 23:02

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 23:02
Container ID: 1178562008-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.196	J	0.472	0.142	mg/L	1		11/02/17 23:02
Surrogates								
n-Triacontane-d62 (surr)	79.7		50-150		%	1		11/02/17 23:02

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 23:02
Container ID: 1178562008-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-20**

Client Sample ID: **TWP17-20**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562008
Lab Project ID: 1178562

Collection Date: 10/24/17 17:22
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 06:02
Surrogates								
4-Bromofluorobenzene (surr)	99.7		50-150		%	1		10/29/17 06:02

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 06:02
Container ID: 1178562008-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-20**

Client Sample ID: **TWP17-20**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562008
Lab Project ID: 1178562

Collection Date: 10/24/17 17:22
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:46
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:46
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:46
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:46
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:46
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:46
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:46
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:46
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:46
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:46
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:46

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J flagging is activated

Results of **TWP17-20**

Client Sample ID: **TWP17-20**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562008
Lab Project ID: 1178562

Collection Date: 10/24/17 17:22
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
cis-1,2-Dichloroethene	0.960 J		1.00	0.310	ug/L	1		11/04/17 17:46
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:46
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:46
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:46
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 17:46
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:46
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 17:46
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Trichloroethene	11.3		1.00	0.310	ug/L	1		11/04/17 17:46
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:46
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:46
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 17:46
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 17:46
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/04/17 17:46
4-Bromofluorobenzene (surr)	92.8		85-114		%	1		11/04/17 17:46
Toluene-d8 (surr)	97.8		89-112		%	1		11/04/17 17:46

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-20**

Client Sample ID: **TWP17-20**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562008
Lab Project ID: 1178562

Collection Date: 10/24/17 17:22
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:46
Container ID: 1178562008-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-18**

Client Sample ID: **TWP17-18**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562009
Lab Project ID: 1178562

Collection Date: 10/24/17 16:27
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.423	J	0.577	0.173	mg/L	1		11/02/17 23:12
Surrogates								
5a Androstane (surr)	77.4		50-150		%	1		11/02/17 23:12

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 23:12
Container ID: 1178562009-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.461	J	0.481	0.144	mg/L	1		11/02/17 23:12
Surrogates								
n-Triacontane-d62 (surr)	83.6		50-150		%	1		11/02/17 23:12

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 23:12
Container ID: 1178562009-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-18**

Client Sample ID: **TWP17-18**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562009
Lab Project ID: 1178562

Collection Date: 10/24/17 16:27
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 06:21
Surrogates								
4-Bromofluorobenzene (surr)	96.3		50-150		%	1		10/29/17 06:21

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 06:21
Container ID: 1178562009-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-18**

Client Sample ID: **TWP17-18**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562009
Lab Project ID: 1178562

Collection Date: 10/24/17 16:27
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:03
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:03
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:03
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:03
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03

Results of **TWP17-18**

Client Sample ID: **TWP17-18**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562009
Lab Project ID: 1178562

Collection Date: 10/24/17 16:27
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
cis-1,2-Dichloroethene	0.330	J	1.00	0.310	ug/L	1		11/04/17 18:03
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:03
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:03
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:03
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
trans-1,2-Dichloroethene	0.900	J	1.00	0.310	ug/L	1		11/04/17 18:03
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Trichloroethene	12.1		1.00	0.310	ug/L	1		11/04/17 18:03
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:03
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:03
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:03
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:03
Surrogates								
1,2-Dichloroethane-D4 (surr)	106		81-118		%	1		11/04/17 18:03
4-Bromofluorobenzene (surr)	92.7		85-114		%	1		11/04/17 18:03
Toluene-d8 (surr)	97.9		89-112		%	1		11/04/17 18:03

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-18**

Client Sample ID: **TWP17-18**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562009
Lab Project ID: 1178562

Collection Date: 10/24/17 16:27
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:03
Container ID: 1178562009-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-13**

Client Sample ID: **TWP17-13**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562010
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		11/02/17 23:22
Surrogates								
5a Androstane (surr)	75.7		50-150		%	1		11/02/17 23:22

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 23:22
Container ID: 1178562010-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.297	J	0.490	0.147	mg/L	1		11/02/17 23:22
Surrogates								
n-Triacontane-d62 (surr)	79.8		50-150		%	1		11/02/17 23:22

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 23:22
Container ID: 1178562010-G

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-13**

Client Sample ID: **TWP17-13**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562010
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 06:40
Surrogates								
4-Bromofluorobenzene (surr)	97.6		50-150		%	1		10/29/17 06:40

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 06:40
Container ID: 1178562010-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-13**

Client Sample ID: **TWP17-13**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562010
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:20
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:20
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
Benzene	0.290	J	0.400	0.120	ug/L	1		11/04/17 18:20
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:20
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20

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J flagging is activated

Results of **TWP17-13**

Client Sample ID: **TWP17-13**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562010
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:20
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:20
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:20
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:20
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:20
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:20
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:20
Surrogates								
1,2-Dichloroethane-D4 (surr)	106		81-118		%	1		11/04/17 18:20
4-Bromofluorobenzene (surr)	93.6		85-114		%	1		11/04/17 18:20
Toluene-d8 (surr)	99.6		89-112		%	1		11/04/17 18:20

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Results of **TWP17-13**

Client Sample ID: **TWP17-13**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562010
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:20
Container ID: 1178562010-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	27.9		5.00	1.50	ug/L	5		10/31/17 14:05
Barium	456		3.00	0.940	ug/L	5		10/31/17 14:05
Cadmium	0.781	J	2.00	0.620	ug/L	5		10/31/17 14:05
Chromium	155		4.00	1.30	ug/L	5		10/31/17 14:05
Lead	38.8		1.00	0.310	ug/L	5		10/31/17 14:05
Mercury	0.143	J	0.200	0.0620	ug/L	5		10/31/17 14:05
Selenium	10.0	U	20.0	6.20	ug/L	5		10/31/17 14:05
Silver	1.00	U	2.00	0.620	ug/L	5		10/31/17 14:05

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:05
Container ID: 1178562011-M

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:22
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:22
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 16:22
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:22
Surrogates								
2-Methylnaphthalene-d10 (surr)	65.7		47-106		%	1		11/01/17 16:22
Fluoranthene-d10 (surr)	53.8		24-116		%	1		11/01/17 16:22

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 16:22
Container ID: 1178562011-L

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

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Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.283	U	0.566	0.170	mg/L	1		11/02/17 23:31
Surrogates								
5a Androstane (surr)	76.4		50-150		%	1		11/02/17 23:31

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/02/17 23:31
Container ID: 1178562011-J

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.222	J	0.472	0.142	mg/L	1		11/02/17 23:31
Surrogates								
n-Triacontane-d62 (surr)	78		50-150		%	1		11/02/17 23:31

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/02/17 23:31
Container ID: 1178562011-J

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/01/17 08:07
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 06:59
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/29/17 06:59

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 06:59
Container ID: 1178562011-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:37
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 20:47
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:37
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 20:47
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:37
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:37
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37

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Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:37
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:37
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:37
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:37
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:37
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:37
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:37
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 18:37
4-Bromofluorobenzene (surr)	95.1		85-114		%	1		11/04/17 18:37
Toluene-d8 (surr)	98		89-112		%	1		11/04/17 18:37

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Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:37
Container ID: 1178562011-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 20:47
Container ID: 1178562011-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-7**

Client Sample ID: **TWP17-7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562011
Lab Project ID: 1178562

Collection Date: 10/24/17 15:26
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0220	U	0.0439	0.0134	ug/L	1		11/01/17 22:04
Surrogates								
1,3-Dichlorobenzene (surr)	94.5		51-131		%	1		11/01/17 22:04

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 22:04
Container ID: 1178562011-G

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.583 mL
Prep Extract Vol: 1 mL

Results of **TWP17-5**

Client Sample ID: **TWP17-5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562012
Lab Project ID: 1178562

Collection Date: 10/24/17 12:16
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.209	J	0.566	0.170	mg/L	1		11/07/17 12:06
Surrogates								
5a Androstane (surr)	82.3		50-150		%	1		11/07/17 12:06

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:06
Container ID: 1178562012-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.345	J	0.472	0.142	mg/L	1		11/07/17 12:06
Surrogates								
n-Triacontane-d62 (surr)	90.2		50-150		%	1		11/07/17 12:06

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:06
Container ID: 1178562012-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-5**

Client Sample ID: **TWP17-5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562012
Lab Project ID: 1178562

Collection Date: 10/24/17 12:16
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 07:18
Surrogates								
4-Bromofluorobenzene (surr)	101		50-150		%	1		10/29/17 07:18

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 07:18
Container ID: 1178562012-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-5**

Client Sample ID: **TWP17-5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562012
Lab Project ID: 1178562

Collection Date: 10/24/17 12:16
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:54
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:54
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:54
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:54
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54

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Results of **TWP17-5**

Client Sample ID: **TWP17-5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562012
Lab Project ID: 1178562

Collection Date: 10/24/17 12:16
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:54
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:54
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:54
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:54
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:54
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:54
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:54
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 18:54
4-Bromofluorobenzene (surr)	93.5		85-114		%	1		11/04/17 18:54
Toluene-d8 (surr)	96.7		89-112		%	1		11/04/17 18:54

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Results of **TWP17-5**

Client Sample ID: **TWP17-5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562012
Lab Project ID: 1178562

Collection Date: 10/24/17 12:16
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:54
Container ID: 1178562012-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-15**

Client Sample ID: **TWP17-15**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562013
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.234	J	0.600	0.180	mg/L	1		11/07/17 12:16
Surrogates								
5a Androstane (surr)	86.8		50-150		%	1		11/07/17 12:16

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:16
Container ID: 1178562013-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.321	J	0.500	0.150	mg/L	1		11/07/17 12:16
Surrogates								
n-Triacontane-d62 (surr)	88.9		50-150		%	1		11/07/17 12:16

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:16
Container ID: 1178562013-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **TWP17-15**

Client Sample ID: **TWP17-15**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562013
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 07:37
Surrogates								
4-Bromofluorobenzene (surr)	94.8		50-150		%	1		10/29/17 07:37

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 07:37
Container ID: 1178562013-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-15**

Client Sample ID: **TWP17-15**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562013
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:11
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:03
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 19:11
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:03
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:11
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 19:11
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11

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Results of **TWP17-15**

Client Sample ID: **TWP17-15**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562013
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
cis-1,2-Dichloroethene	14.5		1.00	0.310	ug/L	1		11/04/17 19:11
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:11
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 19:11
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:03
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:03
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:03
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 21:03
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
trans-1,2-Dichloroethene	1.72		1.00	0.310	ug/L	1		11/04/17 19:11
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Trichloroethene	1.38		1.00	0.310	ug/L	1		11/04/17 19:11
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:11
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:11
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 19:11
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 21:03
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 19:11
4-Bromofluorobenzene (surr)	95		85-114		%	1		11/04/17 19:11
Toluene-d8 (surr)	97.9		89-112		%	1		11/04/17 19:11

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-15**

Client Sample ID: **TWP17-15**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562013
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 19:11
Container ID: 1178562013-D

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 21:03
Container ID: 1178562013-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	12.4		5.00	1.50	ug/L	5		10/31/17 14:09
Barium	197		3.00	0.940	ug/L	5		10/31/17 14:09
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:09
Chromium	8.73		4.00	1.30	ug/L	5		10/31/17 14:09
Lead	1.20		1.00	0.310	ug/L	5		10/31/17 14:09
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:09
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:09
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:09

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:09
Container ID: 1178562014-N

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:42
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 16:42
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 16:42
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 16:42
Surrogates								
2-Methylnaphthalene-d10 (surr)	90.4		47-106		%	1		11/01/17 16:42
Fluoranthene-d10 (surr)	63.5		24-116		%	1		11/01/17 16:42

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 16:42
Container ID: 1178562014-L

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.78		0.588	0.176	mg/L	1		11/07/17 12:26
Surrogates								
5a Androstane (surr)	86.5		50-150		%	1		11/07/17 12:26

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:26
Container ID: 1178562014-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.55		0.490	0.147	mg/L	1		11/07/17 12:26
Surrogates								
n-Triacontane-d62 (surr)	87.7		50-150		%	1		11/07/17 12:26

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:26
Container ID: 1178562014-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0594	J	0.100	0.0310	mg/L	1		10/29/17 07:56
Surrogates								
4-Bromofluorobenzene (surr)	99.1		50-150		%	1		10/29/17 07:56

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 07:56
Container ID: 1178562014-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:45
1,1-Dichloroethane	0.950	J	1.00	0.310	ug/L	1		11/04/17 15:45
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,2,4-Trimethylbenzene	0.350	J	1.00	0.310	ug/L	1		11/04/17 15:45
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 15:45
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,2-Dichloroethane	0.330	J	0.500	0.150	ug/L	1		11/04/17 15:45
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
Benzene	9.00		0.400	0.120	ug/L	1		11/04/17 15:45
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 15:45
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:45
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Ethylbenzene	0.340	J	1.00	0.310	ug/L	1		11/04/17 15:45
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 15:45
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 15:45
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:45
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:45
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 15:45
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 15:45
Surrogates								
1,2-Dichloroethane-D4 (surr)	114		81-118		%	1		11/04/17 15:45
4-Bromofluorobenzene (surr)	109		85-114		%	1		11/04/17 15:45
Toluene-d8 (surr)	96.6		89-112		%	1		11/04/17 15:45

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 15:45
Container ID: 1178562014-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-25**

Client Sample ID: **TWP17-25**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562014
Lab Project ID: 1178562

Collection Date: 10/25/17 17:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0219	U	0.0437	0.0133	ug/L	1		11/01/17 22:21
Surrogates								
1,3-Dichlorobenzene (surr)	93.1		51-131		%	1		11/01/17 22:21

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 22:21
Container ID: 1178562014-G

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.942 mL
Prep Extract Vol: 1 mL

Results of **TWP17-125**

Client Sample ID: **TWP17-125**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562015
Lab Project ID: 1178562

Collection Date: 10/25/17 16:11
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.75		0.600	0.180	mg/L	1		11/07/17 12:36
Surrogates								
5a Androstane (surr)	90.2		50-150		%	1		11/07/17 12:36

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:36
Container ID: 1178562015-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.68		0.500	0.150	mg/L	1		11/07/17 12:36
Surrogates								
n-Triacontane-d62 (surr)	90.2		50-150		%	1		11/07/17 12:36

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:36
Container ID: 1178562015-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **TWP17-125**

Client Sample ID: **TWP17-125**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562015
Lab Project ID: 1178562

Collection Date: 10/25/17 16:11
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0604	J	0.100	0.0310	mg/L	1		10/30/17 15:14
Surrogates								
4-Bromofluorobenzene (surr)	95.1		50-150		%	1		10/30/17 15:14

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 15:14
Container ID: 1178562015-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-125**

Client Sample ID: **TWP17-125**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562015
Lab Project ID: 1178562

Collection Date: 10/25/17 16:11
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:01
1,1-Dichloroethane	0.900	J	1.00	0.310	ug/L	1		11/04/17 16:01
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,2,4-Trimethylbenzene	0.370	J	1.00	0.310	ug/L	1		11/04/17 16:01
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:01
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,2-Dichloroethane	0.270	J	0.500	0.150	ug/L	1		11/04/17 16:01
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
Benzene	8.69		0.400	0.120	ug/L	1		11/04/17 16:01
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:01
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01

Results of **TWP17-125**

Client Sample ID: **TWP17-125**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562015
Lab Project ID: 1178562

Collection Date: 10/25/17 16:11
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:01
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Ethylbenzene	0.330	J	1.00	0.310	ug/L	1		11/04/17 16:01
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:01
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:01
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:01
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:01
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:01
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:01
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/04/17 16:01
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 16:01
Toluene-d8 (surr)	99.8		89-112		%	1		11/04/17 16:01

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-125**

Client Sample ID: **TWP17-125**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562015
Lab Project ID: 1178562

Collection Date: 10/25/17 16:11
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:01
Container ID: 1178562015-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	15.7		5.00	1.50	ug/L	5		10/31/17 14:14
Barium	320		3.00	0.940	ug/L	5		10/31/17 14:14
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:14
Chromium	35.3		4.00	1.30	ug/L	5		10/31/17 14:14
Lead	6.41		1.00	0.310	ug/L	5		10/31/17 14:14
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:14
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:14
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:14

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:14
Container ID: 1178562016-N

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 17:03
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 17:03
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 17:03
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 17:03
Surrogates								
2-Methylnaphthalene-d10 (surr)	66.2		47-106		%	1		11/01/17 17:03
Fluoranthene-d10 (surr)	62.3		24-116		%	1		11/01/17 17:03

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 17:03
Container ID: 1178562016-L

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.265	J	0.566	0.170	mg/L	1		11/07/17 12:46
Surrogates								
5a Androstane (surr)	92.7		50-150		%	1		11/07/17 12:46

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:46
Container ID: 1178562016-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.431	J	0.472	0.142	mg/L	1		11/07/17 12:46
Surrogates								
n-Triacontane-d62 (surr)	97.4		50-150		%	1		11/07/17 12:46

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:46
Container ID: 1178562016-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 15:33
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/30/17 15:33

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 15:33
Container ID: 1178562016-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:17
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:17
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:17
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:17
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:17
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:17
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:17
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:17
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:17
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:17
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:17

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 16:17
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 16:17
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:17
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 16:17
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:17
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 16:17
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 16:17
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 16:17
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 16:17
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 16:17
Surrogates								
1,2-Dichloroethane-D4 (surr)	108		81-118		%	1		11/04/17 16:17
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 16:17
Toluene-d8 (surr)	97.9		89-112		%	1		11/04/17 16:17

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:17
Container ID: 1178562016-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-23**

Client Sample ID: **TWP17-23**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562016
Lab Project ID: 1178562

Collection Date: 10/25/17 15:24
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0221	U	0.0442	0.0135	ug/L	1		11/01/17 22:37
Surrogates								
1,3-Dichlorobenzene (surr)	83		51-131		%	1		11/01/17 22:37

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 22:37
Container ID: 1178562016-G

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.2 mL
Prep Extract Vol: 1 mL

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	17.6		5.00	1.50	ug/L	5		10/31/17 14:18
Barium	182		3.00	0.940	ug/L	5		10/31/17 14:18
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:18
Chromium	9.63		4.00	1.30	ug/L	5		10/31/17 14:18
Lead	2.81		1.00	0.310	ug/L	5		10/31/17 14:18
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:18
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:18
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:18

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:18
Container ID: 1178562017-N

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
2-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Acenaphthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Acenaphthylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Benzo(a)Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Benzo[a]pyrene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 17:23
Benzo[b]Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Benzo[g,h,i]perylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Benzo[k]fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Chrysene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Dibenzo[a,h]anthracene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 17:23
Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Fluorene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Indeno[1,2,3-c,d] pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Naphthalene	0.0471	U	0.0943	0.0292	ug/L	1		11/01/17 17:23
Phenanthrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:23
Surrogates								
2-Methylnaphthalene-d10 (surr)	75.9		47-106		%	1		11/01/17 17:23
Fluoranthene-d10 (surr)	72.1		24-116		%	1		11/01/17 17:23

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 17:23
Container ID: 1178562017-L

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.319	J	0.577	0.173	mg/L	1		11/07/17 12:56
Surrogates								
5a Androstane (surr)	89.5		50-150		%	1		11/07/17 12:56

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 12:56
Container ID: 1178562017-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.526		0.481	0.144	mg/L	1		11/07/17 12:56
Surrogates								
n-Triacontane-d62 (surr)	91.5		50-150		%	1		11/07/17 12:56

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 12:56
Container ID: 1178562017-J

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0678	J	0.100	0.0310	mg/L	1		10/30/17 15:52
Surrogates								
4-Bromofluorobenzene (surr)	105		50-150		%	1		10/30/17 15:52

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 15:52
Container ID: 1178562017-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:33
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:33
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
Benzene	0.550		0.400	0.120	ug/L	1		11/04/17 16:33
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:33
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:33
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:33
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:33
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:33
Trichlorofluoromethane	9.95		1.00	0.310	ug/L	1		11/04/17 16:33
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:33
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:33
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:33
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 16:33
4-Bromofluorobenzene (surr)	104		85-114		%	1		11/04/17 16:33
Toluene-d8 (surr)	101		89-112		%	1		11/04/17 16:33

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:33
Container ID: 1178562017-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-36**

Client Sample ID: **TWP17-36**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562017
Lab Project ID: 1178562

Collection Date: 10/25/17 13:51
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0219	U	0.0438	0.0133	ug/L	1		11/01/17 22:54
Surrogates								
1,3-Dichlorobenzene (surr)	81.5		51-131		%	1		11/01/17 22:54

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 22:54
Container ID: 1178562017-G

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.773 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-27**

Client Sample ID: **TWP17-27**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562018
Lab Project ID: 1178562

Collection Date: 10/25/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.402	J	0.588	0.176	mg/L	1		11/07/17 13:06
Surrogates								
5a Androstane (surr)	85.3		50-150		%	1		11/07/17 13:06

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 13:06
Container ID: 1178562018-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.586		0.490	0.147	mg/L	1		11/07/17 13:06
Surrogates								
n-Triacontane-d62 (surr)	88.4		50-150		%	1		11/07/17 13:06

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 13:06
Container ID: 1178562018-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-27**

Client Sample ID: **TWP17-27**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562018
Lab Project ID: 1178562

Collection Date: 10/25/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 16:11
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/30/17 16:11

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 16:11
Container ID: 1178562018-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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200 West Potter Drive Anchorage, AK 95518
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Results of **TWP17-27**

Client Sample ID: **TWP17-27**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562018
Lab Project ID: 1178562

Collection Date: 10/25/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:49
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 16:49
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 16:49
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 16:49
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49

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Results of **TWP17-27**

Client Sample ID: **TWP17-27**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562018
Lab Project ID: 1178562

Collection Date: 10/25/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 16:49
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 16:49
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 16:49
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 16:49
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 16:49
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 16:49
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 16:49
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		11/04/17 16:49
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 16:49
Toluene-d8 (surr)	97.5		89-112		%	1		11/04/17 16:49

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Results of **TWP17-27**

Client Sample ID: **TWP17-27**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562018
Lab Project ID: 1178562

Collection Date: 10/25/17 11:30
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 16:49
Container ID: 1178562018-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-35**

Client Sample ID: **TWP17-35**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562019
Lab Project ID: 1178562

Collection Date: 10/25/17 10:57
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.265	J	0.577	0.173	mg/L	1		11/07/17 13:17
Surrogates								
5a Androstane (surr)	81.1		50-150		%	1		11/07/17 13:17

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 13:17
Container ID: 1178562019-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.441	J	0.481	0.144	mg/L	1		11/07/17 13:17
Surrogates								
n-Triacontane-d62 (surr)	89.2		50-150		%	1		11/07/17 13:17

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 13:17
Container ID: 1178562019-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-35**

Client Sample ID: **TWP17-35**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562019
Lab Project ID: 1178562

Collection Date: 10/25/17 10:57
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 16:30
Surrogates								
4-Bromofluorobenzene (surr)	97.3		50-150		%	1		10/30/17 16:30

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 16:30
Container ID: 1178562019-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-35**

Client Sample ID: **TWP17-35**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562019
Lab Project ID: 1178562

Collection Date: 10/25/17 10:57
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:05
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:05
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:05
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:05
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05

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Results of **TWP17-35**

Client Sample ID: **TWP17-35**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562019
Lab Project ID: 1178562

Collection Date: 10/25/17 10:57
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:05
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 17:05
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 17:05
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:05
Trichlorofluoromethane	9.80		1.00	0.310	ug/L	1		11/04/17 17:05
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:05
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 17:05
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 17:05
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/04/17 17:05
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/04/17 17:05
Toluene-d8 (surr)	95.7		89-112		%	1		11/04/17 17:05

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J flagging is activated

Results of **TWP17-35**

Client Sample ID: **TWP17-35**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562019
Lab Project ID: 1178562

Collection Date: 10/25/17 10:57
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:05
Container ID: 1178562019-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-39**

Client Sample ID: **TWP17-39**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562020
Lab Project ID: 1178562

Collection Date: 10/25/17 10:04
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.230	J	0.566	0.170	mg/L	1		11/07/17 13:26
Surrogates								
5a Androstane (surr)	83.2		50-150		%	1		11/07/17 13:26

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 13:26
Container ID: 1178562020-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.359	J	0.472	0.142	mg/L	1		11/07/17 13:26
Surrogates								
n-Triacontane-d62 (surr)	87.1		50-150		%	1		11/07/17 13:26

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 13:26
Container ID: 1178562020-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-39**

Client Sample ID: **TWP17-39**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562020
Lab Project ID: 1178562

Collection Date: 10/25/17 10:04
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 16:49
Surrogates								
4-Bromofluorobenzene (surr)	98.4		50-150		%	1		10/30/17 16:49

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 16:49
Container ID: 1178562020-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-39**

Client Sample ID: **TWP17-39**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562020
Lab Project ID: 1178562

Collection Date: 10/25/17 10:04
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:21
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:21
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:21
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:21
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21

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Results of **TWP17-39**

Client Sample ID: **TWP17-39**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562020
Lab Project ID: 1178562

Collection Date: 10/25/17 10:04
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
cis-1,2-Dichloroethene	0.500	J	1.00	0.310	ug/L	1		11/04/17 17:21
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:21
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 17:21
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 17:21
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:21
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:21
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 17:21
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 17:21
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		11/04/17 17:21
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 17:21
Toluene-d8 (surr)	96.2		89-112		%	1		11/04/17 17:21

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Results of **TWP17-39**

Client Sample ID: **TWP17-39**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562020
Lab Project ID: 1178562

Collection Date: 10/25/17 10:04
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:21
Container ID: 1178562020-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-1**

Client Sample ID: **TWP17-1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562021
Lab Project ID: 1178562

Collection Date: 10/25/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.210	J	0.588	0.176	mg/L	1		11/07/17 13:36
Surrogates								
5a Androstane (surr)	89.6		50-150		%	1		11/07/17 13:36

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/07/17 13:36
Container ID: 1178562021-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.375	J	0.490	0.147	mg/L	1		11/07/17 13:36
Surrogates								
n-Triacontane-d62 (surr)	92		50-150		%	1		11/07/17 13:36

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/07/17 13:36
Container ID: 1178562021-G

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/02/17 08:02
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-1**

Client Sample ID: **TWP17-1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562021
Lab Project ID: 1178562

Collection Date: 10/25/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 17:09
Surrogates								
4-Bromofluorobenzene (surr)	100		50-150		%	1		10/30/17 17:09

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 17:09
Container ID: 1178562021-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-1**

Client Sample ID: **TWP17-1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562021
Lab Project ID: 1178562

Collection Date: 10/25/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:37
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:37
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:37
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:37
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:37
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:37
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:37
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:37
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:37
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:37
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:37

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Results of **TWP17-1**

Client Sample ID: **TWP17-1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562021
Lab Project ID: 1178562

Collection Date: 10/25/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:37
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 17:37
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:37
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 17:37
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:37
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 17:37
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 17:37
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 17:37
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 17:37
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 17:37
Surrogates								
1,2-Dichloroethane-D4 (surr)	116		81-118		%	1		11/04/17 17:37
4-Bromofluorobenzene (surr)	109		85-114		%	1		11/04/17 17:37
Toluene-d8 (surr)	98.8		89-112		%	1		11/04/17 17:37

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Results of **TWP17-1**

Client Sample ID: **TWP17-1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562021
Lab Project ID: 1178562

Collection Date: 10/25/17 16:46
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:37
Container ID: 1178562021-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-101**

Client Sample ID: **TWP17-101**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562022
Lab Project ID: 1178562

Collection Date: 10/25/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		11/05/17 17:54
Surrogates								
5a Androstane (surr)	78.4		50-150		%	1		11/05/17 17:54

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 17:54
Container ID: 1178562022-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.245	U	0.490	0.147	mg/L	1		11/05/17 17:54
Surrogates								
n-Triacontane-d62 (surr)	81.5		50-150		%	1		11/05/17 17:54

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 17:54
Container ID: 1178562022-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-101**

Client Sample ID: **TWP17-101**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562022
Lab Project ID: 1178562

Collection Date: 10/25/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 17:28
Surrogates								
4-Bromofluorobenzene (surr)	105		50-150		%	1		10/30/17 17:28

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 17:28
Container ID: 1178562022-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-101**

Client Sample ID: **TWP17-101**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562022
Lab Project ID: 1178562

Collection Date: 10/25/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:53
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 17:53
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 17:53
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 17:53
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53

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Results of **TWP17-101**

Client Sample ID: **TWP17-101**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562022
Lab Project ID: 1178562

Collection Date: 10/25/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 17:53
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 17:53
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 17:53
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 17:53
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 17:53
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 17:53
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 17:53
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		11/04/17 17:53
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/04/17 17:53
Toluene-d8 (surr)	99		89-112		%	1		11/04/17 17:53

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Results of **TWP17-101**

Client Sample ID: **TWP17-101**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562022
Lab Project ID: 1178562

Collection Date: 10/25/17 16:36
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 17:53
Container ID: 1178562022-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-4**

Client Sample ID: **TWP17-4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562023
Lab Project ID: 1178562

Collection Date: 10/25/17 15:55
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		11/05/17 18:04
Surrogates								
5a Androstane (surr)	77.9		50-150		%	1		11/05/17 18:04

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:04
Container ID: 1178562023-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.221	J	0.481	0.144	mg/L	1		11/05/17 18:04
Surrogates								
n-Triacontane-d62 (surr)	83.1		50-150		%	1		11/05/17 18:04

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:04
Container ID: 1178562023-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-4**

Client Sample ID: **TWP17-4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562023
Lab Project ID: 1178562

Collection Date: 10/25/17 15:55
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 17:47
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	1		10/30/17 17:47

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 17:47
Container ID: 1178562023-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-4**

Client Sample ID: **TWP17-4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562023
Lab Project ID: 1178562

Collection Date: 10/25/17 15:55
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:09
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:09
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:09
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:09
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:09
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:09
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:09
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:09
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:09
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:09
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:09

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Results of **TWP17-4**

Client Sample ID: **TWP17-4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562023
Lab Project ID: 1178562

Collection Date: 10/25/17 15:55
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 18:09
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 18:09
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:09
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 18:09
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:09
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 18:09
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:09
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:09
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 18:09
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 18:09
Surrogates								
1,2-Dichloroethane-D4 (surr)	114		81-118		%	1		11/04/17 18:09
4-Bromofluorobenzene (surr)	108		85-114		%	1		11/04/17 18:09
Toluene-d8 (surr)	95.6		89-112		%	1		11/04/17 18:09

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Results of **TWP17-4**

Client Sample ID: **TWP17-4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562023
Lab Project ID: 1178562

Collection Date: 10/25/17 15:55
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:09
Container ID: 1178562023-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-8**

Client Sample ID: **TWP17-8**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562024
Lab Project ID: 1178562

Collection Date: 10/25/17 14:32
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.213	J	0.577	0.173	mg/L	1		11/05/17 18:14
Surrogates								
5a Androstane (surr)	82.2		50-150		%	1		11/05/17 18:14

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:14
Container ID: 1178562024-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.250	J	0.481	0.144	mg/L	1		11/05/17 18:14
Surrogates								
n-Triacontane-d62 (surr)	84.7		50-150		%	1		11/05/17 18:14

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:14
Container ID: 1178562024-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-8**

Client Sample ID: **TWP17-8**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562024
Lab Project ID: 1178562

Collection Date: 10/25/17 14:32
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 18:06
Surrogates								
4-Bromofluorobenzene (surr)	103		50-150		%	1		10/30/17 18:06

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 18:06
Container ID: 1178562024-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-8**

Client Sample ID: **TWP17-8**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562024
Lab Project ID: 1178562

Collection Date: 10/25/17 14:32
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:25
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:25
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:25
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:25
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25

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Results of **TWP17-8**

Client Sample ID: **TWP17-8**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562024
Lab Project ID: 1178562

Collection Date: 10/25/17 14:32
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:25
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:25
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:25
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:25
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:25
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:25
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:25
Surrogates								
1,2-Dichloroethane-D4 (surr)	107		81-118		%	1		11/04/17 18:25
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 18:25
Toluene-d8 (surr)	98.8		89-112		%	1		11/04/17 18:25

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Results of **TWP17-8**

Client Sample ID: **TWP17-8**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562024
Lab Project ID: 1178562

Collection Date: 10/25/17 14:32
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:25
Container ID: 1178562024-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-17**

Client Sample ID: **TWP17-17**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562025
Lab Project ID: 1178562

Collection Date: 10/25/17 13:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.288	U	0.577	0.173	mg/L	1		11/05/17 18:23
Surrogates								
5a Androstane (surr)	76		50-150		%	1		11/05/17 18:23

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:23
Container ID: 1178562025-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.198	J	0.481	0.144	mg/L	1		11/05/17 18:23
Surrogates								
n-Triacontane-d62 (surr)	81.1		50-150		%	1		11/05/17 18:23

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:23
Container ID: 1178562025-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-17**

Client Sample ID: **TWP17-17**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562025
Lab Project ID: 1178562

Collection Date: 10/25/17 13:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 18:25
Surrogates								
4-Bromofluorobenzene (surr)	101		50-150		%	1		10/30/17 18:25

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 18:25
Container ID: 1178562025-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/13/2017 4:13:38PM

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Results of **TWP17-17**

Client Sample ID: **TWP17-17**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562025
Lab Project ID: 1178562

Collection Date: 10/25/17 13:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:41
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:41
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:41
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:41
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41

Results of **TWP17-17**

Client Sample ID: **TWP17-17**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562025
Lab Project ID: 1178562

Collection Date: 10/25/17 13:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:41
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Dichlorodifluoromethane	1.52		1.00	0.310	ug/L	1		11/04/17 18:41
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 18:41
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 18:41
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:41
Trichlorofluoromethane	1.29		1.00	0.310	ug/L	1		11/04/17 18:41
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:41
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 18:41
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 18:41
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/04/17 18:41
4-Bromofluorobenzene (surr)	104		85-114		%	1		11/04/17 18:41
Toluene-d8 (surr)	98.3		89-112		%	1		11/04/17 18:41

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Results of **TWP17-17**

Client Sample ID: **TWP17-17**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562025
Lab Project ID: 1178562

Collection Date: 10/25/17 13:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:41
Container ID: 1178562025-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-21**

Client Sample ID: **TWP17-21**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562026
Lab Project ID: 1178562

Collection Date: 10/25/17 12:42
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.286	J	0.577	0.173	mg/L	1		11/05/17 18:33
Surrogates								
5a Androstane (surr)	76.6		50-150		%	1		11/05/17 18:33

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:33
Container ID: 1178562026-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.415	J	0.481	0.144	mg/L	1		11/05/17 18:33
Surrogates								
n-Triacontane-d62 (surr)	79.6		50-150		%	1		11/05/17 18:33

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:33
Container ID: 1178562026-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **TWP17-21**

Client Sample ID: **TWP17-21**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562026
Lab Project ID: 1178562

Collection Date: 10/25/17 12:42
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 18:44
Surrogates								
4-Bromofluorobenzene (surr)	106		50-150		%	1		10/30/17 18:44

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 18:44
Container ID: 1178562026-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-21**

Client Sample ID: **TWP17-21**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562026
Lab Project ID: 1178562

Collection Date: 10/25/17 12:42
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:57
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:57
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 18:57
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:57
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:57
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:57
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 18:57
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 18:57
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 18:57
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 18:57
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 18:57

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Results of **TWP17-21**

Client Sample ID: **TWP17-21**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562026
Lab Project ID: 1178562

Collection Date: 10/25/17 12:42
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
cis-1,2-Dichloroethene	0.700 J		1.00	0.310	ug/L	1		11/04/17 18:57
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 18:57
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 18:57
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:57
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 18:57
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:57
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 18:57
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 18:57
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 18:57
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 18:57
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 18:57
Surrogates								
1,2-Dichloroethane-D4 (surr)	107		81-118		%	1		11/04/17 18:57
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 18:57
Toluene-d8 (surr)	97.9		89-112		%	1		11/04/17 18:57

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Results of **TWP17-21**

Client Sample ID: **TWP17-21**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562026
Lab Project ID: 1178562

Collection Date: 10/25/17 12:42
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 18:57
Container ID: 1178562026-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-32**

Client Sample ID: **TWP17-32**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562027
Lab Project ID: 1178562

Collection Date: 10/25/17 11:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.171	J	0.566	0.170	mg/L	1		11/05/17 18:42
Surrogates								
5a Androstane (surr)	74.1		50-150		%	1		11/05/17 18:42

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:42
Container ID: 1178562027-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.226	J	0.472	0.142	mg/L	1		11/05/17 18:42
Surrogates								
n-Triacontane-d62 (surr)	78.1		50-150		%	1		11/05/17 18:42

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:42
Container ID: 1178562027-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-32**

Client Sample ID: **TWP17-32**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562027
Lab Project ID: 1178562

Collection Date: 10/25/17 11:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 19:03
Surrogates								
4-Bromofluorobenzene (surr)	105		50-150		%	1		10/30/17 19:03

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 19:03
Container ID: 1178562027-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-32**

Client Sample ID: **TWP17-32**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562027
Lab Project ID: 1178562

Collection Date: 10/25/17 11:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:13
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 19:13
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:13
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 19:13
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13

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Results of **TWP17-32**

Client Sample ID: **TWP17-32**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562027
Lab Project ID: 1178562

Collection Date: 10/25/17 11:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:13
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 19:13
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 19:13
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:13
Trichlorofluoromethane	1.60		1.00	0.310	ug/L	1		11/04/17 19:13
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:13
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 19:13
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 19:13
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		11/04/17 19:13
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 19:13
Toluene-d8 (surr)	98.7		89-112		%	1		11/04/17 19:13

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Results of **TWP17-32**

Client Sample ID: **TWP17-32**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562027
Lab Project ID: 1178562

Collection Date: 10/25/17 11:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 19:13
Container ID: 1178562027-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-34**

Client Sample ID: **TWP17-34**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562028
Lab Project ID: 1178562

Collection Date: 10/25/17 10:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		11/05/17 18:52
Surrogates								
5a Androstane (surr)	77.3		50-150		%	1		11/05/17 18:52

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 18:52
Container ID: 1178562028-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.252	J	0.490	0.147	mg/L	1		11/05/17 18:52
Surrogates								
n-Triacontane-d62 (surr)	81.5		50-150		%	1		11/05/17 18:52

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 18:52
Container ID: 1178562028-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-34**

Client Sample ID: **TWP17-34**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562028
Lab Project ID: 1178562

Collection Date: 10/25/17 10:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 20:01
Surrogates								
4-Bromofluorobenzene (surr)	101		50-150		%	1		10/30/17 20:01

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 20:01
Container ID: 1178562028-A

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-34**

Client Sample ID: **TWP17-34**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562028
Lab Project ID: 1178562

Collection Date: 10/25/17 10:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:29
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 19:29
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:29
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 19:29
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29

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Results of **TWP17-34**

Client Sample ID: **TWP17-34**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562028
Lab Project ID: 1178562

Collection Date: 10/25/17 10:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:29
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 19:29
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 19:29
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:29
Trichlorofluoromethane	9.27		1.00	0.310	ug/L	1		11/04/17 19:29
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:29
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 19:29
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 19:29
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/04/17 19:29
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 19:29
Toluene-d8 (surr)	97.4		89-112		%	1		11/04/17 19:29

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Results of **TWP17-34**

Client Sample ID: **TWP17-34**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562028
Lab Project ID: 1178562

Collection Date: 10/25/17 10:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 19:29
Container ID: 1178562028-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-37**

Client Sample ID: **TWP17-37**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562029
Lab Project ID: 1178562

Collection Date: 10/25/17 10:13
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		11/05/17 19:02
Surrogates								
5a Androstane (surr)	71		50-150		%	1		11/05/17 19:02

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 19:02
Container ID: 1178562029-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.267	J	0.490	0.147	mg/L	1		11/05/17 19:02
Surrogates								
n-Triacontane-d62 (surr)	75.8		50-150		%	1		11/05/17 19:02

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 19:02
Container ID: 1178562029-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-37**

Client Sample ID: **TWP17-37**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562029
Lab Project ID: 1178562

Collection Date: 10/25/17 10:13
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 21:36
Surrogates								
4-Bromofluorobenzene (surr)	98.6		50-150		%	1		10/30/17 21:36

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 21:36
Container ID: 1178562029-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-37**

Client Sample ID: **TWP17-37**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562029
Lab Project ID: 1178562

Collection Date: 10/25/17 10:13
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 19:45
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 19:45
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
Benzene	0.150	J	0.400	0.120	ug/L	1		11/04/17 19:45
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 19:45
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45

Results of **TWP17-37**

Client Sample ID: **TWP17-37**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562029
Lab Project ID: 1178562

Collection Date: 10/25/17 10:13
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 19:45
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 19:45
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 19:45
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 19:45
Trichlorofluoromethane	4.65		1.00	0.310	ug/L	1		11/04/17 19:45
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 19:45
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 19:45
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 19:45
Surrogates								
1,2-Dichloroethane-D4 (surr)	108		81-118		%	1		11/04/17 19:45
4-Bromofluorobenzene (surr)	104		85-114		%	1		11/04/17 19:45
Toluene-d8 (surr)	99.8		89-112		%	1		11/04/17 19:45

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-37**

Client Sample ID: **TWP17-37**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562029
Lab Project ID: 1178562

Collection Date: 10/25/17 10:13
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 19:45
Container ID: 1178562029-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-33**

Client Sample ID: **TWP17-33**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562030
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.283	U	0.566	0.170	mg/L	1		11/05/17 19:11
Surrogates								
5a Androstane (surr)	75.3		50-150		%	1		11/05/17 19:11

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 19:11
Container ID: 1178562030-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.193	J	0.472	0.142	mg/L	1		11/05/17 19:11
Surrogates								
n-Triacontane-d62 (surr)	77.7		50-150		%	1		11/05/17 19:11

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 19:11
Container ID: 1178562030-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-33**

Client Sample ID: **TWP17-33**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562030
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 21:55
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		10/30/17 21:55

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 21:55
Container ID: 1178562030-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-33**

Client Sample ID: **TWP17-33**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562030
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 20:01
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:01
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 20:01
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:01
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:01
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:01
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 20:01
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 20:01
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:01
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:01
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:01

Results of **TWP17-33**

Client Sample ID: **TWP17-33**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562030
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
cis-1,2-Dichloroethene	0.370 J		1.00	0.310	ug/L	1		11/04/17 20:01
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 20:01
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 20:01
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:01
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 20:01
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:01
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 20:01
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:01
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:01
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 20:01
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 20:01
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		11/04/17 20:01
4-Bromofluorobenzene (surr)	108		85-114		%	1		11/04/17 20:01
Toluene-d8 (surr)	99.5		89-112		%	1		11/04/17 20:01

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-33**

Client Sample ID: **TWP17-33**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562030
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 20:01
Container ID: 1178562030-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-41**

Client Sample ID: **TWP17-41**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562031
Lab Project ID: 1178562

Collection Date: 10/25/17 11:18
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.430	J	0.625	0.188	mg/L	1		11/05/17 19:21
Surrogates								
5a Androstane (surr)	85.8		50-150		%	1		11/05/17 19:21

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 19:21
Container ID: 1178562031-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 240 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.263	J	0.521	0.156	mg/L	1		11/05/17 19:21
Surrogates								
n-Triacontane-d62 (surr)	90.1		50-150		%	1		11/05/17 19:21

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 19:21
Container ID: 1178562031-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 240 mL
Prep Extract Vol: 1 mL

Results of **TWP17-41**

Client Sample ID: **TWP17-41**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562031
Lab Project ID: 1178562

Collection Date: 10/25/17 11:18
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 22:14
Surrogates								
4-Bromofluorobenzene (surr)	97.4		50-150		%	1		10/30/17 22:14

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 22:14
Container ID: 1178562031-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-41**

Client Sample ID: **TWP17-41**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562031
Lab Project ID: 1178562

Collection Date: 10/25/17 11:18
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 20:17
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:17
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 20:17
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:17
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:17
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:17
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 20:17
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 20:17
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 20:17
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 20:17
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 20:17

Results of **TWP17-41**

Client Sample ID: **TWP17-41**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562031
Lab Project ID: 1178562

Collection Date: 10/25/17 11:18
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
cis-1,2-Dichloroethene	0.460 J		1.00	0.310	ug/L	1		11/04/17 20:17
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/04/17 20:17
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/04/17 20:17
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:17
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/04/17 20:17
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:17
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/04/17 20:17
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Styrene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Toluene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/04/17 20:17
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/04/17 20:17
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/04/17 20:17
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/04/17 20:17
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		11/04/17 20:17
4-Bromofluorobenzene (surr)	105		85-114		%	1		11/04/17 20:17
Toluene-d8 (surr)	100		89-112		%	1		11/04/17 20:17

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Results of **TWP17-41**

Client Sample ID: **TWP17-41**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562031
Lab Project ID: 1178562

Collection Date: 10/25/17 11:18
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 20:17
Container ID: 1178562031-D

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-43**

Client Sample ID: **TWP17-43**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562032
Lab Project ID: 1178562

Collection Date: 10/25/17 12:08
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.573		0.566	0.170	mg/L	1		11/05/17 19:31
Surrogates								
5a Androstane (surr)	84.1		50-150		%	1		11/05/17 19:31

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 19:31
Container ID: 1178562032-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.257	J	0.472	0.142	mg/L	1		11/05/17 19:31
Surrogates								
n-Triacontane-d62 (surr)	90.6		50-150		%	1		11/05/17 19:31

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 19:31
Container ID: 1178562032-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-43**

Client Sample ID: **TWP17-43**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562032
Lab Project ID: 1178562

Collection Date: 10/25/17 12:08
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 22:33
Surrogates								
4-Bromofluorobenzene (surr)	95.9		50-150		%	1		10/30/17 22:33

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 22:33
Container ID: 1178562032-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TWP17-43**

Client Sample ID: **TWP17-43**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562032
Lab Project ID: 1178562

Collection Date: 10/25/17 12:08
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:19
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 21:19
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:19
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 21:19
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19

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Results of **TWP17-43**

Client Sample ID: **TWP17-43**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562032
Lab Project ID: 1178562

Collection Date: 10/25/17 12:08
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
cis-1,2-Dichloroethene	1.50		1.00	0.310	ug/L	1		11/05/17 21:19
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:19
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/05/17 21:19
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 21:19
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Styrene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Toluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Trichloroethene	1.86		1.00	0.310	ug/L	1		11/05/17 21:19
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:19
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:19
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/05/17 21:19
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 21:19
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/05/17 21:19
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/05/17 21:19
Toluene-d8 (surr)	97		89-112		%	1		11/05/17 21:19

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Results of **TWP17-43**

Client Sample ID: **TWP17-43**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562032
Lab Project ID: 1178562

Collection Date: 10/25/17 12:08
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 21:19
Container ID: 1178562032-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-44**

Client Sample ID: **TWP17-44**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562033
Lab Project ID: 1178562

Collection Date: 10/25/17 12:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.193	J	0.610	0.183	mg/L	1		11/05/17 19:40
Surrogates								
5a Androstane (surr)	84.2		50-150		%	1		11/05/17 19:40

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 19:40
Container ID: 1178562033-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.259	J	0.508	0.152	mg/L	1		11/05/17 19:40
Surrogates								
n-Triacontane-d62 (surr)	87.1		50-150		%	1		11/05/17 19:40

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 19:40
Container ID: 1178562033-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Results of **TWP17-44**

Client Sample ID: **TWP17-44**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562033
Lab Project ID: 1178562

Collection Date: 10/25/17 12:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0535	J	0.100	0.0310	mg/L	1		10/30/17 22:52
Surrogates								
4-Bromofluorobenzene (surr)	95.9		50-150		%	1		10/30/17 22:52

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 22:52
Container ID: 1178562033-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-44**

Client Sample ID: **TWP17-44**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562033
Lab Project ID: 1178562

Collection Date: 10/25/17 12:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:35
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:35
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 21:35
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:35
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:35
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:35
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:35
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 21:35
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:35
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:35
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:35

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J flagging is activated

Results of **TWP17-44**

Client Sample ID: **TWP17-44**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562033
Lab Project ID: 1178562

Collection Date: 10/25/17 12:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
cis-1,2-Dichloroethene	2.44		1.00	0.310	ug/L	1		11/06/17 18:55
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/05/17 21:35
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/05/17 21:35
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:35
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/05/17 21:35
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:35
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/05/17 21:35
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Styrene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Tetrachloroethene	1.13		1.00	0.310	ug/L	1		11/05/17 21:35
Toluene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
trans-1,2-Dichloroethene	0.360 J		1.00	0.310	ug/L	1		11/05/17 21:35
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Trichloroethene	2.65		1.00	0.310	ug/L	1		11/06/17 18:55
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:35
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:35
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/05/17 21:35
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/05/17 21:35
Surrogates								
1,2-Dichloroethane-D4 (surr)	107		81-118		%	1		11/06/17 18:55
4-Bromofluorobenzene (surr)	109		85-114		%	1		11/05/17 21:35
Toluene-d8 (surr)	98.7		89-112		%	1		11/05/17 21:35

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J flagging is activated

Results of **TWP17-44**

Client Sample ID: **TWP17-44**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562033
Lab Project ID: 1178562

Collection Date: 10/25/17 12:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17424
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/06/17 18:55
Container ID: 1178562033-D

Prep Batch: VXX31687
Prep Method: SW5030B
Prep Date/Time: 11/06/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 21:35
Container ID: 1178562033-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-12**

Client Sample ID: **TWP17-12**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562034
Lab Project ID: 1178562

Collection Date: 10/25/17 14:02
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.416	J	0.566	0.170	mg/L	1		11/05/17 20:09
Surrogates								
5a Androstane (surr)	76.5		50-150		%	1		11/05/17 20:09

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 20:09
Container ID: 1178562034-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.535		0.472	0.142	mg/L	1		11/05/17 20:09
Surrogates								
n-Triacontane-d62 (surr)	77.9		50-150		%	1		11/05/17 20:09

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 20:09
Container ID: 1178562034-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **TWP17-12**

Client Sample ID: **TWP17-12**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562034
Lab Project ID: 1178562

Collection Date: 10/25/17 14:02
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 23:11
Surrogates								
4-Bromofluorobenzene (surr)	98.2		50-150		%	1		10/30/17 23:11

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 23:11
Container ID: 1178562034-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-12**

Client Sample ID: **TWP17-12**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562034
Lab Project ID: 1178562

Collection Date: 10/25/17 14:02
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:51
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:51
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 21:51
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:51
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:51
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:51
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 21:51
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 21:51
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 21:51
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 21:51
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 21:51

Results of **TWP17-12**

Client Sample ID: **TWP17-12**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562034
Lab Project ID: 1178562

Collection Date: 10/25/17 14:02
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/05/17 21:51
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/05/17 21:51
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:51
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/05/17 21:51
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:51
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/05/17 21:51
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Styrene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Toluene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 21:51
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/05/17 21:51
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/05/17 21:51
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/05/17 21:51
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/05/17 21:51
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/05/17 21:51
Toluene-d8 (surr)	96.8		89-112		%	1		11/05/17 21:51

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-12**

Client Sample ID: **TWP17-12**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562034
Lab Project ID: 1178562

Collection Date: 10/25/17 14:02
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 21:51
Container ID: 1178562034-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-6**

Client Sample ID: **TWP17-6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562035
Lab Project ID: 1178562

Collection Date: 10/25/17 16:00
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.220	J	0.588	0.176	mg/L	1		11/05/17 20:19
Surrogates								
5a Androstane (surr)	77.6		50-150		%	1		11/05/17 20:19

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 20:19
Container ID: 1178562035-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.245	U	0.490	0.147	mg/L	1		11/05/17 20:19
Surrogates								
n-Triacontane-d62 (surr)	83		50-150		%	1		11/05/17 20:19

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 20:19
Container ID: 1178562035-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **TWP17-6**

Client Sample ID: **TWP17-6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562035
Lab Project ID: 1178562

Collection Date: 10/25/17 16:00
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 23:30
Surrogates								
4-Bromofluorobenzene (surr)	99.8		50-150		%	1		10/30/17 23:30

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 23:30
Container ID: 1178562035-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-6**

Client Sample ID: **TWP17-6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562035
Lab Project ID: 1178562

Collection Date: 10/25/17 16:00
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:07
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:07
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 22:07
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:07
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:07
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:07
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:07
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 22:07
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:07
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:07
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:07

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J flagging is activated

Results of **TWP17-6**

Client Sample ID: **TWP17-6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562035
Lab Project ID: 1178562

Collection Date: 10/25/17 16:00
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/05/17 22:07
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/05/17 22:07
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/05/17 22:07
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/05/17 22:07
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/05/17 22:07
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/05/17 22:07
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Styrene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Toluene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 22:07
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/05/17 22:07
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/05/17 22:07
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/05/17 22:07
Surrogates								
1,2-Dichloroethane-D4 (surr)	124	*	81-118		%	1		11/05/17 22:07
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/05/17 22:07
Toluene-d8 (surr)	98.5		89-112		%	1		11/05/17 22:07

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J flagging is activated

Results of **TWP17-6**

Client Sample ID: **TWP17-6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562035
Lab Project ID: 1178562

Collection Date: 10/25/17 16:00
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 22:07
Container ID: 1178562035-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-106**

Client Sample ID: **TWP17-106**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562036
Lab Project ID: 1178562

Collection Date: 10/25/17 15:50
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.308	U	0.615	0.184	mg/L	1		11/05/17 20:29
Surrogates								
5a Androstane (surr)	76		50-150		%	1		11/05/17 20:29

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 20:29
Container ID: 1178562036-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 244 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.160	J	0.512	0.154	mg/L	1		11/05/17 20:29
Surrogates								
n-Triacontane-d62 (surr)	80.4		50-150		%	1		11/05/17 20:29

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 20:29
Container ID: 1178562036-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 244 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-106**

Client Sample ID: **TWP17-106**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562036
Lab Project ID: 1178562

Collection Date: 10/25/17 15:50
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/30/17 23:49
Surrogates								
4-Bromofluorobenzene (surr)	105		50-150		%	1		10/30/17 23:49

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/30/17 23:49
Container ID: 1178562036-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-106**

Client Sample ID: **TWP17-106**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562036
Lab Project ID: 1178562

Collection Date: 10/25/17 15:50
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:23
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 22:23
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:23
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 22:23
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23

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J flagging is activated

Results of **TWP17-106**

Client Sample ID: **TWP17-106**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562036
Lab Project ID: 1178562

Collection Date: 10/25/17 15:50
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:23
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/05/17 22:23
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 22:23
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Styrene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Toluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:23
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:23
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/05/17 22:23
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 22:23
Surrogates								
1,2-Dichloroethane-D4 (surr)	108		81-118		%	1		11/05/17 22:23
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/05/17 22:23
Toluene-d8 (surr)	96.3		89-112		%	1		11/05/17 22:23

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J flagging is activated

Results of **TWP17-106**

Client Sample ID: **TWP17-106**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562036
Lab Project ID: 1178562

Collection Date: 10/25/17 15:50
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 22:23
Container ID: 1178562036-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-9**

Client Sample ID: **TWP17-9**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562037
Lab Project ID: 1178562

Collection Date: 10/25/17 16:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.212	J	0.600	0.180	mg/L	1		11/05/17 20:39
Surrogates								
5a Androstane (surr)	74.8		50-150		%	1		11/05/17 20:39

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 20:39
Container ID: 1178562037-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.230	J	0.500	0.150	mg/L	1		11/05/17 20:39
Surrogates								
n-Triacontane-d62 (surr)	80.3		50-150		%	1		11/05/17 20:39

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 20:39
Container ID: 1178562037-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **TWP17-9**

Client Sample ID: **TWP17-9**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562037
Lab Project ID: 1178562

Collection Date: 10/25/17 16:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/31/17 00:08
Surrogates								
4-Bromofluorobenzene (surr)	105		50-150		%	1		10/31/17 00:08

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/31/17 00:08
Container ID: 1178562037-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-9**

Client Sample ID: **TWP17-9**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562037
Lab Project ID: 1178562

Collection Date: 10/25/17 16:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:39
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 22:39
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:39
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 22:39
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-9**

Client Sample ID: **TWP17-9**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562037
Lab Project ID: 1178562

Collection Date: 10/25/17 16:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:39
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/05/17 22:39
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 22:39
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Styrene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Toluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:39
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:39
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/05/17 22:39
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 22:39
Surrogates								
1,2-Dichloroethane-D4 (surr)	116		81-118		%	1		11/05/17 22:39
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/05/17 22:39
Toluene-d8 (surr)	94.9		89-112		%	1		11/05/17 22:39

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J flagging is activated

Results of **TWP17-9**

Client Sample ID: **TWP17-9**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562037
Lab Project ID: 1178562

Collection Date: 10/25/17 16:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 22:39
Container ID: 1178562037-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **TWP17-38**

Client Sample ID: **TWP17-38**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562038
Lab Project ID: 1178562

Collection Date: 10/25/17 10:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.305	U	0.610	0.183	mg/L	1		11/05/17 20:49
Surrogates								
5a Androstane (surr)	77.3		50-150		%	1		11/05/17 20:49

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/05/17 20:49
Container ID: 1178562038-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.203	J	0.508	0.152	mg/L	1		11/05/17 20:49
Surrogates								
n-Triacontane-d62 (surr)	83.1		50-150		%	1		11/05/17 20:49

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/05/17 20:49
Container ID: 1178562038-G

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/03/17 09:32
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Results of **TWP17-38**

Client Sample ID: **TWP17-38**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562038
Lab Project ID: 1178562

Collection Date: 10/25/17 10:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0640	J	0.100	0.0310	mg/L	1		10/31/17 00:27
Surrogates								
4-Bromofluorobenzene (surr)	101		50-150		%	1		10/31/17 00:27

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/31/17 00:27
Container ID: 1178562038-A

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-38**

Client Sample ID: **TWP17-38**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562038
Lab Project ID: 1178562

Collection Date: 10/25/17 10:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:55
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 22:55
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 22:55
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 22:55
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55

Results of **TWP17-38**

Client Sample ID: **TWP17-38**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562038
Lab Project ID: 1178562

Collection Date: 10/25/17 10:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 22:55
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/05/17 22:55
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 22:55
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Styrene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Toluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 22:55
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/05/17 22:55
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/05/17 22:55
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 22:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	117		81-118		%	1		11/05/17 22:55
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/05/17 22:55
Toluene-d8 (surr)	98.4		89-112		%	1		11/05/17 22:55

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J flagging is activated

Results of **TWP17-38**

Client Sample ID: **TWP17-38**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562038
Lab Project ID: 1178562

Collection Date: 10/25/17 10:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 22:55
Container ID: 1178562038-D

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562039
Lab Project ID: 1178562

Collection Date: 10/23/17 18:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	9.30		5.00	1.50	ug/L	5		10/31/17 14:23
Barium	99.6		3.00	0.940	ug/L	5		10/31/17 14:23
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:23
Chromium	8.83		4.00	1.30	ug/L	5		10/31/17 14:23
Lead	2.43		1.00	0.310	ug/L	5		10/31/17 14:23
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:23
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:23
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:23

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:23
Container ID: 1178562039-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562039
Lab Project ID: 1178562

Collection Date: 10/23/17 18:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
2-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Acenaphthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Acenaphthylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Benzo(a)Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Benzo[a]pyrene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 17:44
Benzo[b]Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Benzo[g,h,i]perylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Benzo[k]fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Chrysene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Dibenzo[a,h]anthracene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 17:44
Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Fluorene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Indeno[1,2,3-c,d] pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Naphthalene	0.0471	U	0.0943	0.0292	ug/L	1		11/01/17 17:44
Phenanthrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 17:44
Surrogates								
2-Methylnaphthalene-d10 (surr)	76.3		47-106		%	1		11/01/17 17:44
Fluoranthene-d10 (surr)	73.6		24-116		%	1		11/01/17 17:44

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 17:44
Container ID: 1178562039-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-22**

Client Sample ID: **TWP17-22**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562039
Lab Project ID: 1178562

Collection Date: 10/23/17 18:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0220	U	0.0440	0.0134	ug/L	1		11/01/17 23:11
Surrogates								
1,3-Dichlorobenzene (surr)	83.3		51-131		%	1		11/01/17 23:11

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 23:11
Container ID: 1178562039-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.459 mL
Prep Extract Vol: 1 mL

Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562040
Lab Project ID: 1178562

Collection Date: 10/23/17 12:59
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	16.9		5.00	1.50	ug/L	5		10/31/17 14:35
Barium	69.2		3.00	0.940	ug/L	5		10/31/17 14:35
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:35
Chromium	2.00 U		4.00	1.30	ug/L	5		10/31/17 14:35
Lead	0.371 J		1.00	0.310	ug/L	5		10/31/17 14:35
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:35
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:35
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:35

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:35
Container ID: 1178562040-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562040
Lab Project ID: 1178562

Collection Date: 10/23/17 12:59
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
2-Methylnaphthalene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Acenaphthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Acenaphthylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Benzo(a)Anthracene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Benzo[a]pyrene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 18:04
Benzo[b]Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Benzo[g,h,i]perylene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Benzo[k]fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Chrysene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Dibenzo[a,h]anthracene	0.00945	U	0.0189	0.00585	ug/L	1		11/01/17 18:04
Fluoranthene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Fluorene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Indeno[1,2,3-c,d] pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Naphthalene	0.0471	U	0.0943	0.0292	ug/L	1		11/01/17 18:04
Phenanthrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Pyrene	0.0236	U	0.0472	0.0142	ug/L	1		11/01/17 18:04
Surrogates								
2-Methylnaphthalene-d10 (surr)	68.2		47-106		%	1		11/01/17 18:04
Fluoranthene-d10 (surr)	65.2		24-116		%	1		11/01/17 18:04

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 18:04
Container ID: 1178562040-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-14**

Client Sample ID: **TWP17-14**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562040
Lab Project ID: 1178562

Collection Date: 10/23/17 12:59
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0220	U	0.0440	0.0134	ug/L	1		11/01/17 23:27
Surrogates								
1,3-Dichlorobenzene (surr)	79.4		51-131		%	1		11/01/17 23:27

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 23:27
Container ID: 1178562040-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.536 mL
Prep Extract Vol: 1 mL

Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562041
Lab Project ID: 1178562

Collection Date: 10/23/17 14:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	22.9		5.00	1.50	ug/L	5		10/31/17 14:39
Barium	147		3.00	0.940	ug/L	5		10/31/17 14:39
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:39
Chromium	4.05		4.00	1.30	ug/L	5		10/31/17 14:39
Lead	54.8		1.00	0.310	ug/L	5		10/31/17 14:39
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:39
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:39
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:39

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:39
Container ID: 1178562041-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562041
Lab Project ID: 1178562

Collection Date: 10/23/17 14:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Acenaphthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Acenaphthylene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	ug/L	1		11/01/17 18:24
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Chrysene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	ug/L	1		11/01/17 18:24
Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Fluorene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Naphthalene	0.0490	U	0.0980	0.0304	ug/L	1		11/01/17 18:24
Phenanthrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Pyrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 18:24
Surrogates								
2-Methylnaphthalene-d10 (surr)	72.6		47-106		%	1		11/01/17 18:24
Fluoranthene-d10 (surr)	71		24-116		%	1		11/01/17 18:24

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 18:24
Container ID: 1178562041-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-29**

Client Sample ID: **TWP17-29**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562041
Lab Project ID: 1178562

Collection Date: 10/23/17 14:45
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0222	U	0.0443	0.0135	ug/L	1		11/01/17 23:44
Surrogates								
1,3-Dichlorobenzene (surr)	83.9		51-131		%	1		11/01/17 23:44

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/01/17 23:44
Container ID: 1178562041-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.053 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562042
Lab Project ID: 1178562

Collection Date: 10/23/17 16:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	23.5		5.00	1.50	ug/L	5		10/31/17 14:44
Barium	184		3.00	0.940	ug/L	5		10/31/17 14:44
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:44
Chromium	2.00 U		4.00	1.30	ug/L	5		10/31/17 14:44
Lead	0.440 J		1.00	0.310	ug/L	5		10/31/17 14:44
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:44
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:44
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:44

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:44
Container ID: 1178562042-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562042
Lab Project ID: 1178562

Collection Date: 10/23/17 16:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 18:45
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 18:45
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 18:45
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 18:45
Surrogates								
2-Methylnaphthalene-d10 (surr)	67.9		47-106		%	1		11/01/17 18:45
Fluoranthene-d10 (surr)	65.7		24-116		%	1		11/01/17 18:45

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 18:45
Container ID: 1178562042-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-40**

Client Sample ID: **TWP17-40**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562042
Lab Project ID: 1178562

Collection Date: 10/23/17 16:06
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0221	U	0.0442	0.0135	ug/L	1		11/02/17 00:01
Surrogates								
1,3-Dichlorobenzene (surr)	87.6		51-131		%	1		11/02/17 00:01

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/02/17 00:01
Container ID: 1178562042-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.197 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562043
Lab Project ID: 1178562

Collection Date: 10/23/17 15:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	25.7		5.00	1.50	ug/L	5		10/31/17 14:59
Barium	192		3.00	0.940	ug/L	5		10/31/17 14:59
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:59
Chromium	2.00 U		4.00	1.30	ug/L	5		10/31/17 14:59
Lead	0.427 J		1.00	0.310	ug/L	5		10/31/17 14:59
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 14:59
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 14:59
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 14:59

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 14:59
Container ID: 1178562043-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562043
Lab Project ID: 1178562

Collection Date: 10/23/17 15:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
2-Methylnaphthalene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 19:05
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		11/01/17 19:05
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Naphthalene	0.0481	U	0.0962	0.0298	ug/L	1		11/01/17 19:05
Phenanthrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		11/01/17 19:05
Surrogates								
2-Methylnaphthalene-d10 (surr)	78		47-106		%	1		11/01/17 19:05
Fluoranthene-d10 (surr)	77.7		24-116		%	1		11/01/17 19:05

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 19:05
Container ID: 1178562043-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-140**

Client Sample ID: **TWP17-140**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562043
Lab Project ID: 1178562

Collection Date: 10/23/17 15:56
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0222	U	0.0444	0.0135	ug/L	1		11/02/17 00:17
Surrogates								
1,3-Dichlorobenzene (surr)	82.8		51-131		%	1		11/02/17 00:17

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/02/17 00:17
Container ID: 1178562043-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 56.936 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562044
Lab Project ID: 1178562

Collection Date: 10/23/17 10:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	14.5		5.00	1.50	ug/L	5		10/31/17 15:03
Barium	149		3.00	0.940	ug/L	5		10/31/17 15:03
Cadmium	1.00 U		2.00	0.620	ug/L	5		10/31/17 15:03
Chromium	2.00 U		4.00	1.30	ug/L	5		10/31/17 15:03
Lead	1.16		1.00	0.310	ug/L	5		10/31/17 15:03
Mercury	0.100 U		0.200	0.0620	ug/L	5		10/31/17 15:03
Selenium	10.0 U		20.0	6.20	ug/L	5		10/31/17 15:03
Silver	1.00 U		2.00	0.620	ug/L	5		10/31/17 15:03

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 10/31/17 15:03
Container ID: 1178562044-E

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/17 10:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562044
Lab Project ID: 1178562

Collection Date: 10/23/17 10:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
2-Methylnaphthalene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Acenaphthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Acenaphthylene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	ug/L	1		11/01/17 19:26
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Chrysene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	ug/L	1		11/01/17 19:26
Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Fluorene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Naphthalene	0.0490	U	0.0980	0.0304	ug/L	1		11/01/17 19:26
Phenanthrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Pyrene	0.0245	U	0.0490	0.0147	ug/L	1		11/01/17 19:26
Surrogates								
2-Methylnaphthalene-d10 (surr)	62.2		47-106		%	1		11/01/17 19:26
Fluoranthene-d10 (surr)	62.8		24-116		%	1		11/01/17 19:26

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Analyst: DSD
Analytical Date/Time: 11/01/17 19:26
Container ID: 1178562044-D

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/17 09:08
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **TWP17-10**

Client Sample ID: **TWP17-10**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562044
Lab Project ID: 1178562

Collection Date: 10/23/17 10:35
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0220	U	0.0439	0.0134	ug/L	1		11/02/17 00:34
Surrogates								
1,3-Dichlorobenzene (surr)	81.6		51-131		%	1		11/02/17 00:34

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/02/17 00:34
Container ID: 1178562044-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.632 mL
Prep Extract Vol: 1 mL

Results of **Trip Blank 1**

Client Sample ID: **Trip Blank 1**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562046
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 00:01
Surrogates								
4-Bromofluorobenzene (surr)	95.7		50-150		%	1		10/29/17 00:01

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 00:01
Container ID: 1178562046-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank 2**

Client Sample ID: **Trip Blank 2**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562047
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		10/29/17 00:20
Surrogates								
4-Bromofluorobenzene (surr)	96.1		50-150		%	1		10/29/17 00:20

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/29/17 00:20
Container ID: 1178562047-A

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **Trip Blank 3**

Client Sample ID: **Trip Blank 3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562048
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:13
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 15:13
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:13
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 15:13
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13

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Results of **Trip Blank 3**

Client Sample ID: **Trip Blank 3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562048
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:13
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 15:13
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 15:13
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:13
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:13
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 15:13
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 15:13
Surrogates								
1,2-Dichloroethane-D4 (surr)	114		81-118		%	1		11/04/17 15:13
4-Bromofluorobenzene (surr)	107		85-114		%	1		11/04/17 15:13
Toluene-d8 (surr)	96.4		89-112		%	1		11/04/17 15:13

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Results of **Trip Blank 3**

Client Sample ID: **Trip Blank 3**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562048
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 15:13
Container ID: 1178562048-A

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **Trip Blank 4**

Client Sample ID: **Trip Blank 4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562049
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:29
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/04/17 15:29
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
Benzene	0.200	U	0.400	0.120	ug/L	1		11/04/17 15:29
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/04/17 15:29
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29

Results of **Trip Blank 4**

Client Sample ID: **Trip Blank 4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562049
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/04/17 15:29
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/04/17 15:29
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/04/17 15:29
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Styrene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Toluene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/04/17 15:29
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/04/17 15:29
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/04/17 15:29
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/04/17 15:29
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/04/17 15:29
4-Bromofluorobenzene (surr)	106		85-114		%	1		11/04/17 15:29
Toluene-d8 (surr)	100		89-112		%	1		11/04/17 15:29

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Results of **Trip Blank 4**

Client Sample ID: **Trip Blank 4**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562049
Lab Project ID: 1178562

Collection Date: 10/24/17 17:44
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/04/17 15:29
Container ID: 1178562049-A

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/04/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **Trip Blank 5**

Client Sample ID: **Trip Blank 5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562050
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 18:39
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 18:39
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 18:39
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 18:39
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39

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Results of **Trip Blank 5**

Client Sample ID: **Trip Blank 5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562050
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Chloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:39
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Freon-113	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Methylene chloride	2.50	U	5.00	1.00	ug/L	1		11/05/17 18:39
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
Naphthalene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
o-Xylene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		11/05/17 18:39
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Styrene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Toluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:39
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:39
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		11/05/17 18:39
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		11/05/17 18:39
Surrogates								
1,2-Dichloroethane-D4 (surr)	109		81-118		%	1		11/05/17 18:39
4-Bromofluorobenzene (surr)	105		85-114		%	1		11/05/17 18:39
Toluene-d8 (surr)	97.3		89-112		%	1		11/05/17 18:39

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Results of **Trip Blank 5**

Client Sample ID: **Trip Blank 5**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562050
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 18:39
Container ID: 1178562050-A

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank 6**

Client Sample ID: **Trip Blank 6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562051
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		11/05/17 18:55
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:55
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		11/05/17 18:55
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,2-Dichloroethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:55
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:55
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:55
Benzene	0.200	U	0.400	0.120	ug/L	1		11/05/17 18:55
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
Bromoform	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
Bromomethane	2.50	U	5.00	1.50	ug/L	1		11/05/17 18:55
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		11/05/17 18:55
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		11/05/17 18:55
Chloroethane	0.500	U	1.00	0.310	ug/L	1		11/05/17 18:55

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **Trip Blank 6**

Client Sample ID: **Trip Blank 6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562051
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Chloromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
cis-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
cis-1,3-Dichloropropene	0.250 U		0.500	0.150	ug/L	1		11/05/17 18:55
Dibromochloromethane	0.250 U		0.500	0.150	ug/L	1		11/05/17 18:55
Dibromomethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Dichlorodifluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Ethylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Freon-113	5.00 U		10.0	3.10	ug/L	1		11/05/17 18:55
Hexachlorobutadiene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Isopropylbenzene (Cumene)	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Methylene chloride	2.50 U		5.00	1.00	ug/L	1		11/05/17 18:55
Methyl-t-butyl ether	5.00 U		10.0	3.10	ug/L	1		11/05/17 18:55
Naphthalene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
n-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
n-Propylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
o-Xylene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
P & M -Xylene	1.00 U		2.00	0.620	ug/L	1		11/05/17 18:55
sec-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Styrene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
tert-Butylbenzene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Tetrachloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Toluene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
trans-1,2-Dichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
trans-1,3-Dichloropropene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Trichloroethene	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Trichlorofluoromethane	0.500 U		1.00	0.310	ug/L	1		11/05/17 18:55
Vinyl acetate	5.00 U		10.0	3.10	ug/L	1		11/05/17 18:55
Vinyl chloride	0.0750 U		0.150	0.0500	ug/L	1		11/05/17 18:55
Xylenes (total)	1.50 U		3.00	1.00	ug/L	1		11/05/17 18:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	105		81-118		%	1		11/05/17 18:55
4-Bromofluorobenzene (surr)	105		85-114		%	1		11/05/17 18:55
Toluene-d8 (surr)	98.6		89-112		%	1		11/05/17 18:55

Print Date: 11/13/2017 4:13:38PM

J flagging is activated

Results of **Trip Blank 6**

Client Sample ID: **Trip Blank 6**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562051
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Analyst: FDR
Analytical Date/Time: 11/05/17 18:55
Container ID: 1178562051-A

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/05/17 00:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank 7**

Client Sample ID: **Trip Blank 7**
Client Project ID: **20056-004 Miller Salvage**
Lab Sample ID: 1178562052
Lab Project ID: 1178562

Collection Date: 10/25/17 09:31
Received Date: 10/27/17 10:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS with Micro Extraction**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,2-Dibromoethane	0.0220	U	0.0439	0.0134	ug/L	1		11/02/17 00:51
Surrogates								
1,3-Dichlorobenzene (surr)	88.3		51-131		%	1		11/02/17 00:51

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Analyst: DSH
Analytical Date/Time: 11/02/17 00:51
Container ID: 1178562052-A

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/01/17 17:00
Prep Initial Wt./Vol.: 57.644 mL
Prep Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771105 [MXX/31187]
Blank Lab ID: 1422883

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044

Results by **SW6020A**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	2.50U	5.00	1.50	ug/L
Barium	1.50U	3.00	0.940	ug/L
Cadmium	1.00U	2.00	0.620	ug/L
Chromium	2.00U	4.00	1.30	ug/L
Lead	0.500U	1.00	0.310	ug/L
Mercury	0.100U	0.200	0.0620	ug/L
Selenium	10.0U	20.0	6.20	ug/L
Silver	1.00U	2.00	0.620	ug/L

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 10/31/2017 1:15:54PM

Prep Batch: MXX31187
Prep Method: SW3010A
Prep Date/Time: 10/30/2017 10:17:45AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [MXX31187]
Blank Spike Lab ID: 1422884
Date Analyzed: 10/31/2017 13:20

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044

Results by **SW6020A**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	1000	100	(84-116)
Barium	1000	988	99	(86-114)
Cadmium	100	93.5	94	(87-115)
Chromium	400	436	109	(85-116)
Lead	1000	959	96	(88-115)
Mercury	10	10.1	101	(70-124)
Selenium	1000	982	98	(80-120)
Silver	100	89.4	89	(85-116)

Batch Information

Analytical Batch: **MMS9990**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexion P5**
Analyst: **ACF**

Prep Batch: **MXX31187**
Prep Method: **SW3010A**
Prep Date/Time: **10/30/2017 10:17**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1422885
MS Sample ID: 1422887 MS
MSD Sample ID: 1422888 MSD

Analysis Date: 10/31/2017 13:24
Analysis Date: 10/31/2017 13:29
Analysis Date: 10/31/2017 13:33
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044

Results by **SW6020A**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	2.12J	1000	1010	101	1000	1000	100	84-116	0.60	(< 20)
Barium	175	1000	1170	100	1000	1170	100	86-114	0.11	(< 20)
Cadmium	1.00U	100	97.4	97	100	96.4	96	87-115	0.98	(< 20)
Chromium	2.00U	400	410	103	400	394	99	85-116	3.93	(< 20)
Lead	5.38	1000	963	96	1000	999	99	88-115	3.67	(< 20)
Mercury	0.100U	10.0	9.8	98	10.0	9.87	99	70-124	0.77	(< 20)
Selenium	10.0U	1000	1000	100	1000	988	99	80-120	1.18	(< 20)
Silver	1.00U	100	106	106	100	106	106	85-116	0.51	(< 20)

Batch Information

Analytical Batch: MMS9990
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 10/31/2017 1:29:27PM

Prep Batch: MXX31187
Prep Method: 3010 H20 Digest for Metals ICP-MS
Prep Date/Time: 10/30/2017 10:17:45AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/13/2017 4:13:53PM

Method Blank

Blank ID: MB for HBN 1771093 [VXX/31618]
Blank Lab ID: 1422830

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013, 1178562014, 1178562046, 1178562047

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	100	50-150		%

Batch Information

Analytical Batch: VFC13969
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/28/2017 11:43:00PM

Prep Batch: VXX31618
Prep Method: SW5030B
Prep Date/Time: 10/28/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31618]
Blank Spike Lab ID: 1422833
Date Analyzed: 10/29/2017 04:08

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31618]
Spike Duplicate Lab ID: 1422834
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013, 1178562014, 1178562046, 1178562047

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.924	92	1.00	0.908	91	(60-120)	1.70	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	102	102	0.0500	103	103	(50-150)	1.40	

Batch Information

Analytical Batch: **VFC13969**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX31618**
Prep Method: **SW5030B**
Prep Date/Time: **10/28/2017 08:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771221 [VXX/31634]
Blank Lab ID: 1423241

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	96.2	50-150		%

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/30/2017 12:04:00PM

Prep Batch: VXX31634
Prep Method: SW5030B
Prep Date/Time: 10/30/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31634]
Blank Spike Lab ID: 1423244
Date Analyzed: 10/30/2017 13:01

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31634]
Spike Duplicate Lab ID: 1423245
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.967	97	1.00	0.911	91	(60-120)	6.00	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	106	106	0.0500	104	104	(50-150)	1.90	

Batch Information

Analytical Batch: **VFC13971**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX31634**
Prep Method: **SW5030B**
Prep Date/Time: **10/30/2017 08:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771222 [VXX/31635]
Blank Lab ID: 1423246

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	98.2	50-150		%

Batch Information

Analytical Batch: VFC13971
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/30/2017 9:17:00PM

Prep Batch: VXX31635
Prep Method: SW5030B
Prep Date/Time: 10/30/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31635]
Blank Spike Lab ID: 1423247
Date Analyzed: 10/31/2017 01:05

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31635]
Spike Duplicate Lab ID: 1423248
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.922	92	1.00	0.890	89	(60-120)	3.50	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	96.5	97	0.0500	103	103	(50-150)	6.10	

Batch Information

Analytical Batch: **VFC13971**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX31635**
Prep Method: **SW5030B**
Prep Date/Time: **10/30/2017 08:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771433 [VXX/31654]
Blank Lab ID: 1423902

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044, 1178562052

Results by **SW8260B-SIM**

Parameter	Results	LOQ/CL	DL	Units
1,2-Dibromoethane	0.0230U	0.0460	0.0140	ug/L
Surrogates				
1,3-Dichlorobenzene (surr)	99	51-131		%

Batch Information

Analytical Batch: VMS17398
Analytical Method: SW8260B-SIM
Instrument: HP7890B/5977A SUA
Analyst: DSH
Analytical Date/Time: 11/1/2017 8:08:00PM

Prep Batch: VXX31654
Prep Method: SW5030B
Prep Date/Time: 11/1/2017 5:00:00PM
Prep Initial Wt./Vol.: 55 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31654]
Blank Spike Lab ID: 1423903
Date Analyzed: 11/01/2017 20:24

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31654]
Spike Duplicate Lab ID: 1423904
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044, 1178562052

Results by **SW8260B-SIM**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,2-Dibromoethane	0.909	0.913	100	0.909	0.945	104	(77-121)	3.50	(< 20)
Surrogates									
1,3-Dichlorobenzene (surr)	0.909	110	110	0.909	114	114	(51-131)	3.10	

Batch Information

Analytical Batch: **VMS17398**
Analytical Method: **SW8260B-SIM**
Instrument: **HP7890B/5977A SUA**
Analyst: **DSH**

Prep Batch: **VXX31654**
Prep Method: **SW5030B**
Prep Date/Time: **11/01/2017 17:00**
Spike Init Wt./Vol.: 0.909 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.909 ug/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771567 [VXX/31668]
Blank Lab ID: 1424225

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	1.50	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Method Blank

Blank ID: MB for HBN 1771567 [VXX/31668]
Blank Lab ID: 1424225

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	2.50U	5.00	1.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	104	81-118		%
4-Bromofluorobenzene (surr)	105	85-114		%
Toluene-d8 (surr)	99.3	89-112		%

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Method Blank

Blank ID: MB for HBN 1771567 [VXX/31668]
Blank Lab ID: 1424225

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17413
Analytical Method: SW8260C
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: FDR
Analytical Date/Time: 11/4/2017 10:19:00AM

Prep Batch: VXX31668
Prep Method: SW5030B
Prep Date/Time: 11/4/2017 12:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31668]
Blank Spike Lab ID: 1424226
Date Analyzed: 11/04/2017 10:35

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31668]
Spike Duplicate Lab ID: 1424227
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	30.2	101	30	29.9	100	(78-124)	0.97	(< 20)
1,1,1-Trichloroethane	30	29.3	98	30	30.0	100	(74-131)	2.60	(< 20)
1,1,2,2-Tetrachloroethane	30	32.3	108	30	32.8	109	(71-121)	1.60	(< 20)
1,1,2-Trichloroethane	30	31.1	104	30	31.1	104	(80-119)	0.10	(< 20)
1,1-Dichloroethane	30	27.6	92	30	28.2	94	(77-125)	2.10	(< 20)
1,1-Dichloroethene	30	30.9	103	30	31.4	105	(71-131)	1.60	(< 20)
1,1-Dichloropropene	30	30.9	103	30	31.5	105	(79-125)	2.00	(< 20)
1,2,3-Trichlorobenzene	30	32.4	108	30	32.5	108	(69-129)	0.18	(< 20)
1,2,3-Trichloropropane	30	31.7	106	30	32.2	107	(73-122)	1.50	(< 20)
1,2,4-Trichlorobenzene	30	32.3	108	30	32.4	108	(69-130)	0.34	(< 20)
1,2,4-Trimethylbenzene	30	30.0	100	30	29.3	98	(79-124)	2.30	(< 20)
1,2-Dibromo-3-chloropropane	30	33.6	112	30	34.8	116	(62-128)	3.60	(< 20)
1,2-Dibromoethane	30	30.5	102	30	30.9	103	(77-121)	1.30	(< 20)
1,2-Dichlorobenzene	30	31.1	104	30	31.3	104	(80-119)	0.64	(< 20)
1,2-Dichloroethane	30	31.0	103	30	31.4	105	(73-128)	1.30	(< 20)
1,2-Dichloropropane	30	30.5	102	30	30.9	103	(78-122)	1.50	(< 20)
1,3,5-Trimethylbenzene	30	30.6	102	30	30.1	100	(75-124)	1.80	(< 20)
1,3-Dichlorobenzene	30	31.3	104	30	31.1	104	(80-119)	0.61	(< 20)
1,3-Dichloropropane	30	31.3	104	30	31.2	104	(80-119)	0.45	(< 20)
1,4-Dichlorobenzene	30	31.0	103	30	30.7	102	(79-118)	1.00	(< 20)
2,2-Dichloropropane	30	29.9	100	30	30.5	102	(60-139)	2.00	(< 20)
2-Butanone (MEK)	90	80.9	90	90	82.9	92	(56-143)	2.40	(< 20)
2-Chlorotoluene	30	32.7	109	30	32.6	109	(79-122)	0.49	(< 20)
2-Hexanone	90	89.4	99	90	85.2	95	(57-139)	4.80	(< 20)
4-Chlorotoluene	30	32.4	108	30	32.3	108	(78-122)	0.06	(< 20)
4-Isopropyltoluene	30	31.0	103	30	30.6	102	(77-127)	1.60	(< 20)
4-Methyl-2-pentanone (MIBK)	90	84.1	93	90	82.3	91	(67-130)	2.20	(< 20)
Benzene	30	30.7	102	30	30.4	101	(79-120)	0.69	(< 20)
Bromobenzene	30	30.8	103	30	30.5	102	(80-120)	0.91	(< 20)
Bromochloromethane	30	28.9	96	30	29.4	98	(78-123)	1.60	(< 20)
Bromodichloromethane	30	31.0	103	30	31.4	105	(79-125)	1.40	(< 20)
Bromoform	30	30.7	102	30	31.6	105	(66-130)	2.70	(< 20)
Bromomethane	30	29.2	97	30	29.1	97	(53-141)	0.55	(< 20)
Carbon disulfide	45	50.3	112	45	51.0	113	(64-133)	1.40	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31668]
Blank Spike Lab ID: 1424226
Date Analyzed: 11/04/2017 10:35

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31668]
Spike Duplicate Lab ID: 1424227
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	30.2	101	30	31.4	105	(72-136)	4.00	(< 20)
Chlorobenzene	30	30.9	103	30	30.4	101	(82-118)	1.70	(< 20)
Chloroethane	30	33.6	112	30	31.0	103	(60-138)	8.10	(< 20)
Chloroform	30	28.2	94	30	28.3	94	(79-124)	0.50	(< 20)
Chloromethane	30	28.2	94	30	29.2	97	(50-139)	3.40	(< 20)
cis-1,2-Dichloroethene	30	27.5	92	30	28.1	94	(78-123)	2.20	(< 20)
cis-1,3-Dichloropropene	30	31.4	105	30	32.1	107	(75-124)	2.00	(< 20)
Dibromochloromethane	30	30.3	101	30	30.6	102	(74-126)	0.85	(< 20)
Dibromomethane	30	28.5	95	30	29.1	97	(79-123)	2.00	(< 20)
Dichlorodifluoromethane	30	26.7	89	30	27.5	92	(32-152)	2.80	(< 20)
Ethylbenzene	30	30.3	101	30	29.8	99	(79-121)	1.80	(< 20)
Freon-113	45	46.2	103	45	46.5	103	(70-136)	0.63	(< 20)
Hexachlorobutadiene	30	32.2	107	30	32.6	109	(66-134)	1.20	(< 20)
Isopropylbenzene (Cumene)	30	32.3	108	30	32.4	108	(72-131)	0.12	(< 20)
Methylene chloride	30	30.0	100	30	30.6	102	(74-124)	1.90	(< 20)
Methyl-t-butyl ether	45	46.4	103	45	47.0	104	(71-124)	1.40	(< 20)
Naphthalene	30	32.0	107	30	32.5	108	(61-128)	1.40	(< 20)
n-Butylbenzene	30	31.0	103	30	31.2	104	(75-128)	0.42	(< 20)
n-Propylbenzene	30	32.3	108	30	32.2	107	(76-126)	0.46	(< 20)
o-Xylene	30	30.2	101	30	29.5	98	(78-122)	2.20	(< 20)
P & M -Xylene	60	59.8	100	60	58.8	98	(80-121)	1.70	(< 20)
sec-Butylbenzene	30	32.3	108	30	32.0	107	(77-126)	1.10	(< 20)
Styrene	30	32.6	109	30	31.7	106	(78-123)	3.00	(< 20)
tert-Butylbenzene	30	32.8	109	30	32.4	108	(78-124)	1.30	(< 20)
Tetrachloroethene	30	31.7	106	30	31.4	105	(74-129)	0.79	(< 20)
Toluene	30	30.7	102	30	30.2	101	(80-121)	1.60	(< 20)
trans-1,2-Dichloroethene	30	29.8	99	30	30.7	102	(75-124)	2.90	(< 20)
trans-1,3-Dichloropropene	30	30.7	102	30	31.0	103	(73-127)	1.00	(< 20)
Trichloroethene	30	30.2	101	30	30.6	102	(79-123)	1.40	(< 20)
Trichlorofluoromethane	30	30.0	100	30	31.2	104	(65-141)	3.80	(< 20)
Vinyl acetate	30	29.7	99	30	34.7	116	(54-146)	15.60	(< 20)
Vinyl chloride	30	30.9	103	30	30.4	101	(58-137)	1.60	(< 20)
Xylenes (total)	90	90.0	100	90	88.3	98	(79-121)	1.90	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31668]
Blank Spike Lab ID: 1424226
Date Analyzed: 11/04/2017 10:35

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31668]
Spike Duplicate Lab ID: 1424227
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021, 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562048, 1178562049

Results by **SW8260C**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	93.6	94	30	95.6	96	(81-118)	2.10	
4-Bromofluorobenzene (surr)	30	98.1	98	30	97	97	(85-114)	1.20	
Toluene-d8 (surr)	30	104	104	30	104	104	(89-112)	0.26	

Batch Information

Analytical Batch: **VMS17413**
Analytical Method: **SW8260C**
Instrument: **VSA Agilent GC/MS 7890B/5977A**
Analyst: **FDR**

Prep Batch: **VXX31668**
Prep Method: **SW5030B**
Prep Date/Time: **11/04/2017 00:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771570 [VXX/31669]
Blank Lab ID: 1424237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	1.50	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Method Blank

Blank ID: MB for HBN 1771570 [VXX/31669]
Blank Lab ID: 1424237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	2.50U	5.00	1.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	106	81-118		%
4-Bromofluorobenzene (surr)	101	85-114		%
Toluene-d8 (surr)	95.8	89-112		%

Method Blank

Blank ID: MB for HBN 1771570 [VXX/31669]
Blank Lab ID: 1424237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17414
Analytical Method: SW8260C
Instrument: Agilent 7890-75MS
Analyst: FDR
Analytical Date/Time: 11/4/2017 10:29:00AM

Prep Batch: VXX31669
Prep Method: SW5030B
Prep Date/Time: 11/4/2017 12:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31669]
Blank Spike Lab ID: 1424238
Date Analyzed: 11/04/2017 10:46

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31669]
Spike Duplicate Lab ID: 1424239
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	31.1	104	30	32.6	109	(78-124)	4.70	(< 20)
1,1,1-Trichloroethane	30	29.7	99	30	32.4	108	(74-131)	8.70	(< 20)
1,1,2,2-Tetrachloroethane	30	29.7	99	30	31.1	104	(71-121)	4.30	(< 20)
1,1,2-Trichloroethane	30	31.2	104	30	32.2	107	(80-119)	3.10	(< 20)
1,1-Dichloroethane	30	29.6	99	30	32.1	107	(77-125)	8.10	(< 20)
1,1-Dichloroethene	30	32.3	108	30	36.1	120	(71-131)	11.20	(< 20)
1,1-Dichloropropene	30	30.3	101	30	32.1	107	(79-125)	5.80	(< 20)
1,2,3-Trichlorobenzene	30	28.3	95	30	25.7	86	(69-129)	9.70	(< 20)
1,2,3-Trichloropropane	30	29.9	100	30	30.8	103	(73-122)	2.90	(< 20)
1,2,4-Trichlorobenzene	30	29.0	97	30	28.2	94	(69-130)	2.70	(< 20)
1,2,4-Trimethylbenzene	30	28.7	96	30	29.4	98	(79-124)	2.60	(< 20)
1,2-Dibromo-3-chloropropane	30	28.6	95	30	27.2	91	(62-128)	5.30	(< 20)
1,2-Dibromoethane	30	30.2	101	30	31.6	105	(77-121)	4.30	(< 20)
1,2-Dichlorobenzene	30	28.7	96	30	30.6	102	(80-119)	6.30	(< 20)
1,2-Dichloroethane	30	28.5	95	30	30.1	100	(73-128)	5.80	(< 20)
1,2-Dichloropropane	30	31.1	104	30	32.8	109	(78-122)	5.40	(< 20)
1,3,5-Trimethylbenzene	30	28.5	95	30	28.8	96	(75-124)	1.00	(< 20)
1,3-Dichlorobenzene	30	29.3	98	30	30.8	103	(80-119)	5.10	(< 20)
1,3-Dichloropropane	30	30.6	102	30	31.6	105	(80-119)	3.20	(< 20)
1,4-Dichlorobenzene	30	28.9	96	30	30.1	100	(79-118)	4.10	(< 20)
2,2-Dichloropropane	30	28.9	96	30	30.5	102	(60-139)	5.40	(< 20)
2-Butanone (MEK)	90	84.1	93	90	74.0	82	(56-143)	12.80	(< 20)
2-Chlorotoluene	30	28.4	95	30	29.1	97	(79-122)	2.30	(< 20)
2-Hexanone	90	86.6	96	90	83.1	92	(57-139)	4.10	(< 20)
4-Chlorotoluene	30	28.2	94	30	29.3	98	(78-122)	3.70	(< 20)
4-Isopropyltoluene	30	29.0	97	30	29.0	97	(77-127)	0.00	(< 20)
4-Methyl-2-pentanone (MIBK)	90	90.3	100	90	88.0	98	(67-130)	2.70	(< 20)
Benzene	30	30.3	101	30	31.1	104	(79-120)	2.60	(< 20)
Bromobenzene	30	29.3	98	30	31.0	103	(80-120)	5.50	(< 20)
Bromochloromethane	30	30.3	101	30	34.1	114	(78-123)	11.70	(< 20)
Bromodichloromethane	30	30.5	102	30	33.0	110	(79-125)	7.90	(< 20)
Bromoform	30	31.9	106	30	33.9	113	(66-130)	6.00	(< 20)
Bromomethane	30	26.3	88	30	38.1	127	(53-141)	36.50	* (< 20)
Carbon disulfide	45	47.4	105	45	53.8	120	(64-133)	12.60	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31669]
Blank Spike Lab ID: 1424238
Date Analyzed: 11/04/2017 10:46

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31669]
Spike Duplicate Lab ID: 1424239
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	29.7	99	30	32.4	108	(72-136)	8.60	(< 20)
Chlorobenzene	30	29.5	98	30	30.8	103	(82-118)	4.10	(< 20)
Chloroethane	30	34.2	114	30	37.9	126	(60-138)	10.10	(< 20)
Chloroform	30	29.4	98	30	32.2	107	(79-124)	9.10	(< 20)
Chloromethane	30	31.0	103	30	34.8	116	(50-139)	11.60	(< 20)
cis-1,2-Dichloroethene	30	30.6	102	30	33.2	111	(78-123)	8.10	(< 20)
cis-1,3-Dichloropropene	30	30.3	101	30	32.0	107	(75-124)	5.30	(< 20)
Dibromochloromethane	30	31.7	106	30	33.5	112	(74-126)	5.60	(< 20)
Dibromomethane	30	29.8	99	30	32.7	109	(79-123)	9.50	(< 20)
Dichlorodifluoromethane	30	30.5	102	30	35.4	118	(32-152)	14.90	(< 20)
Ethylbenzene	30	29.3	98	30	30.0	100	(79-121)	2.50	(< 20)
Freon-113	45	46.9	104	45	51.4	114	(70-136)	9.00	(< 20)
Hexachlorobutadiene	30	30.5	102	30	30.6	102	(66-134)	0.29	(< 20)
Isopropylbenzene (Cumene)	30	29.2	97	30	29.4	98	(72-131)	0.78	(< 20)
Methylene chloride	30	31.5	105	30	35.1	117	(74-124)	10.80	(< 20)
Methyl-t-butyl ether	45	45.4	101	45	45.1	100	(71-124)	0.77	(< 20)
Naphthalene	30	27.5	92	30	24.6	82	(61-128)	11.10	(< 20)
n-Butylbenzene	30	28.8	96	30	29.4	98	(75-128)	2.10	(< 20)
n-Propylbenzene	30	28.8	96	30	29.1	97	(76-126)	0.90	(< 20)
o-Xylene	30	29.0	97	30	28.9	96	(78-122)	0.21	(< 20)
P & M -Xylene	60	58.6	98	60	59.2	99	(80-121)	1.20	(< 20)
sec-Butylbenzene	30	28.3	94	30	29.1	97	(77-126)	2.70	(< 20)
Styrene	30	29.7	99	30	30.3	101	(78-123)	1.80	(< 20)
tert-Butylbenzene	30	28.1	94	30	29.1	97	(78-124)	3.40	(< 20)
Tetrachloroethene	30	30.8	103	30	31.8	106	(74-129)	3.20	(< 20)
Toluene	30	28.0	93	30	30.9	103	(80-121)	9.70	(< 20)
trans-1,2-Dichloroethene	30	29.9	100	30	32.9	110	(75-124)	9.50	(< 20)
trans-1,3-Dichloropropene	30	31.3	104	30	32.3	108	(73-127)	3.10	(< 20)
Trichloroethene	30	30.2	101	30	32.7	109	(79-123)	8.10	(< 20)
Trichlorofluoromethane	30	33.0	110	30	37.4	125	(65-141)	12.80	(< 20)
Vinyl acetate	30	31.7	106	30	28.2	94	(54-146)	11.80	(< 20)
Vinyl chloride	30	31.6	105	30	36.1	120	(58-137)	13.30	(< 20)
Xylenes (total)	90	87.5	97	90	88.1	98	(79-121)	0.71	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31669]
Blank Spike Lab ID: 1424238
Date Analyzed: 11/04/2017 10:46

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31669]
Spike Duplicate Lab ID: 1424239
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011, 1178562012, 1178562013

Results by **SW8260C**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	98.4	98	30	98.8	99	(81-118)	0.41	
4-Bromofluorobenzene (surr)	30	102	102	30	97.7	98	(85-114)	4.10	
Toluene-d8 (surr)	30	101	101	30	95.2	95	(89-112)	5.50	

Batch Information

Analytical Batch: **VMS17414**
Analytical Method: **SW8260C**
Instrument: **Agilent 7890-75MS**
Analyst: **FDR**

Prep Batch: **VXX31669**
Prep Method: **SW5030B**
Prep Date/Time: **11/04/2017 00:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771596 [VXX/31671]
Blank Lab ID: 1424347

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	2.50U	5.00	1.50	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

Method Blank

Blank ID: MB for HBN 1771596 [VXX/31671]
Blank Lab ID: 1424347

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	2.50U	5.00	1.00	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	107	81-118		%
4-Bromofluorobenzene (surr)	104	85-114		%
Toluene-d8 (surr)	98.3	89-112		%

Method Blank

Blank ID: MB for HBN 1771596 [VXX/31671]
Blank Lab ID: 1424347

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17416
Analytical Method: SW8260C
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: FDR
Analytical Date/Time: 11/5/2017 4:08:00PM

Prep Batch: VXX31671
Prep Method: SW5030B
Prep Date/Time: 11/5/2017 12:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31671]
Blank Spike Lab ID: 1424348
Date Analyzed: 11/05/2017 17:15

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31671]
Spike Duplicate Lab ID: 1424349
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	29.2	97	30	29.3	98	(78-124)	0.38	(< 20)
1,1,1-Trichloroethane	30	29.1	97	30	29.6	99	(74-131)	1.90	(< 20)
1,1,2,2-Tetrachloroethane	30	32.4	108	30	32.4	108	(71-121)	0.06	(< 20)
1,1,2-Trichloroethane	30	31.0	103	30	30.6	102	(80-119)	1.20	(< 20)
1,1-Dichloroethane	30	26.9	90	30	27.5	92	(77-125)	2.10	(< 20)
1,1-Dichloroethene	30	29.3	98	30	30.0	100	(71-131)	2.20	(< 20)
1,1-Dichloropropene	30	31.2	104	30	31.6	105	(79-125)	1.50	(< 20)
1,2,3-Trichlorobenzene	30	32.5	108	30	34.7	116	(69-129)	6.60	(< 20)
1,2,3-Trichloropropane	30	32.4	108	30	32.2	107	(73-122)	0.40	(< 20)
1,2,4-Trichlorobenzene	30	32.2	107	30	34.2	114	(69-130)	6.10	(< 20)
1,2,4-Trimethylbenzene	30	30.0	100	30	30.5	102	(79-124)	1.60	(< 20)
1,2-Dibromo-3-chloropropane	30	34.5	115	30	34.9	116	(62-128)	1.30	(< 20)
1,2-Dibromoethane	30	30.2	101	30	29.7	99	(77-121)	1.80	(< 20)
1,2-Dichlorobenzene	30	30.8	103	30	31.2	104	(80-119)	1.10	(< 20)
1,2-Dichloroethane	30	30.1	100	30	30.2	101	(73-128)	0.27	(< 20)
1,2-Dichloropropane	30	30.0	100	30	30.0	100	(78-122)	0.10	(< 20)
1,3,5-Trimethylbenzene	30	31.0	103	30	31.7	106	(75-124)	2.10	(< 20)
1,3-Dichlorobenzene	30	31.5	105	30	31.8	106	(80-119)	0.92	(< 20)
1,3-Dichloropropane	30	31.0	103	30	30.2	101	(80-119)	2.40	(< 20)
1,4-Dichlorobenzene	30	31.1	104	30	31.0	103	(79-118)	0.06	(< 20)
2,2-Dichloropropane	30	30.8	103	30	30.9	103	(60-139)	0.39	(< 20)
2-Butanone (MEK)	90	82.7	92	90	82.8	92	(56-143)	0.21	(< 20)
2-Chlorotoluene	30	32.5	108	30	32.6	109	(79-122)	0.52	(< 20)
2-Hexanone	90	84.5	94	90	88.8	99	(57-139)	5.00	(< 20)
4-Chlorotoluene	30	32.8	109	30	32.7	109	(78-122)	0.18	(< 20)
4-Isopropyltoluene	30	31.9	106	30	32.5	108	(77-127)	1.90	(< 20)
4-Methyl-2-pentanone (MIBK)	90	80.0	89	90	83.8	93	(67-130)	4.70	(< 20)
Benzene	30	29.3	98	30	30.1	100	(79-120)	2.70	(< 20)
Bromobenzene	30	30.5	102	30	30.5	102	(80-120)	0.03	(< 20)
Bromochloromethane	30	28.0	93	30	28.1	94	(78-123)	0.61	(< 20)
Bromodichloromethane	30	30.0	100	30	30.1	100	(79-125)	0.47	(< 20)
Bromoform	30	30.2	101	30	30.1	100	(66-130)	0.56	(< 20)
Bromomethane	30	25.5	85	30	28.4	95	(53-141)	11.00	(< 20)
Carbon disulfide	45	45.3	101	45	46.0	102	(64-133)	1.70	(< 20)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31671]
Blank Spike Lab ID: 1424348
Date Analyzed: 11/05/2017 17:15

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31671]
Spike Duplicate Lab ID: 1424349
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	30.7	102	30	31.2	104	(72-136)	1.60	(< 20)
Chlorobenzene	30	29.8	99	30	30.4	101	(82-118)	1.70	(< 20)
Chloroethane	30	29.9	100	30	34.7	116	(60-138)	14.70	(< 20)
Chloroform	30	27.3	91	30	27.7	92	(79-124)	1.60	(< 20)
Chloromethane	30	27.6	92	30	27.9	93	(50-139)	1.00	(< 20)
cis-1,2-Dichloroethene	30	26.7	89	30	27.2	91	(78-123)	1.80	(< 20)
cis-1,3-Dichloropropene	30	31.3	104	30	31.0	103	(75-124)	1.10	(< 20)
Dibromochloromethane	30	29.9	100	30	29.4	98	(74-126)	1.60	(< 20)
Dibromomethane	30	27.9	93	30	27.8	93	(79-123)	0.11	(< 20)
Dichlorodifluoromethane	30	27.2	91	30	28.0	93	(32-152)	3.20	(< 20)
Ethylbenzene	30	29.2	97	30	30.3	101	(79-121)	3.60	(< 20)
Freon-113	45	46.0	102	45	47.1	105	(70-136)	2.40	(< 20)
Hexachlorobutadiene	30	33.8	113	30	34.4	115	(66-134)	1.80	(< 20)
Isopropylbenzene (Cumene)	30	32.5	108	30	32.9	110	(72-131)	1.20	(< 20)
Methylene chloride	30	28.3	94	30	28.7	96	(74-124)	1.50	(< 20)
Methyl-t-butyl ether	45	46.0	102	45	45.1	100	(71-124)	1.90	(< 20)
Naphthalene	30	32.1	107	30	34.3	114	(61-128)	6.60	(< 20)
n-Butylbenzene	30	32.6	109	30	33.2	111	(75-128)	1.70	(< 20)
n-Propylbenzene	30	33.2	111	30	33.6	112	(76-126)	1.20	(< 20)
o-Xylene	30	29.0	97	30	29.1	97	(78-122)	0.17	(< 20)
P & M -Xylene	60	59.2	99	60	59.6	99	(80-121)	0.67	(< 20)
sec-Butylbenzene	30	33.1	110	30	33.2	111	(77-126)	0.30	(< 20)
Styrene	30	31.8	106	30	31.7	106	(78-123)	0.35	(< 20)
tert-Butylbenzene	30	32.6	109	30	32.3	108	(78-124)	0.93	(< 20)
Tetrachloroethene	30	31.7	106	30	32.6	109	(74-129)	3.00	(< 20)
Toluene	30	29.8	99	30	30.2	101	(80-121)	1.20	(< 20)
trans-1,2-Dichloroethene	30	28.9	96	30	29.6	99	(75-124)	2.50	(< 20)
trans-1,3-Dichloropropene	30	30.8	103	30	30.0	100	(73-127)	2.60	(< 20)
Trichloroethene	30	29.9	100	30	30.4	101	(79-123)	1.80	(< 20)
Trichlorofluoromethane	30	30.4	101	30	31.1	104	(65-141)	2.10	(< 20)
Vinyl acetate	30	34.5	115	30	30.5	102	(54-146)	12.10	(< 20)
Vinyl chloride	30	29.5	98	30	31.3	104	(58-137)	6.00	(< 20)
Xylenes (total)	90	88.3	98	90	88.7	99	(79-121)	0.51	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31671]
Blank Spike Lab ID: 1424348
Date Analyzed: 11/05/2017 17:15

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31671]
Spike Duplicate Lab ID: 1424349
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562005, 1178562011, 1178562013, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038, 1178562050, 1178562051

Results by **SW8260C**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	94.7	95	30	94.5	95	(81-118)	0.25	
4-Bromofluorobenzene (surr)	30	98.4	98	30	98.2	98	(85-114)	0.17	
Toluene-d8 (surr)	30	104	104	30	104	104	(89-112)	0.64	

Batch Information

Analytical Batch: **VMS17416**
Analytical Method: **SW8260C**
Instrument: **VSA Agilent GC/MS 7890B/5977A**
Analyst: **FDR**

Prep Batch: **VXX31671**
Prep Method: **SW5030B**
Prep Date/Time: **11/05/2017 00:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771717 [VXX/31687]
Blank Lab ID: 1424650

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562033

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	109	81-118		%
4-Bromofluorobenzene (surr)	97.1	85-114		%
Toluene-d8 (surr)	99.6	89-112		%

Batch Information

Analytical Batch: VMS17424
Analytical Method: SW8260C
Instrument: Agilent 7890-75MS
Analyst: FDR
Analytical Date/Time: 11/6/2017 1:08:00PM

Prep Batch: VXX31687
Prep Method: SW5030B
Prep Date/Time: 11/6/2017 12:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [VXX31687]
Blank Spike Lab ID: 1424651
Date Analyzed: 11/06/2017 14:23

Spike Duplicate ID: LCSD for HBN 1178562 [VXX31687]
Spike Duplicate Lab ID: 1424652
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562033

Results by **SW8260C**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
cis-1,2-Dichloroethene	30	30.6	102	30	31.2	104	(78-123)	2.20	(< 20)
Trichloroethene	30	31.6	105	30	31.6	105	(79-123)	0.06	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	100	100	30	101	101	(81-118)	1.00	
4-Bromofluorobenzene (surr)	30	98.1	98	30	96.6	97	(85-114)	1.60	
Toluene-d8 (surr)	30	98.6	99	30	96	96	(89-112)	2.60	

Batch Information

Analytical Batch: **VMS17424**
Analytical Method: **SW8260C**
Instrument: **Agilent 7890-75MS**
Analyst: **FDR**

Prep Batch: **VXX31687**
Prep Method: **SW5030B**
Prep Date/Time: **11/06/2017 00:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1771107 [XXX/38765]
Blank Lab ID: 1422892

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044

Results by **8270D SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	Units
1-Methylnaphthalene	0.0250U	0.0500	0.0150	ug/L
2-Methylnaphthalene	0.0250U	0.0500	0.0150	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	ug/L
Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	ug/L
Chrysene	0.0250U	0.0500	0.0150	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	ug/L
Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Fluorene	0.0250U	0.0500	0.0150	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	ug/L
Naphthalene	0.0500U	0.100	0.0310	ug/L
Phenanthrene	0.0250U	0.0500	0.0150	ug/L
Pyrene	0.0250U	0.0500	0.0150	ug/L
Surrogates				
2-Methylnaphthalene-d10 (surr)	73.8	47-106		%
Fluoranthene-d10 (surr)	72.8	24-116		%

Batch Information

Analytical Batch: XMS10524
Analytical Method: 8270D SIM LV (PAH)
Instrument: SVA Agilent 780/5975 GC/MS
Analyst: DSD
Analytical Date/Time: 11/1/2017 2:19:00PM

Prep Batch: XXX38765
Prep Method: SW3520C
Prep Date/Time: 10/30/2017 9:08:28AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38765]
Blank Spike Lab ID: 1422893
Date Analyzed: 11/01/2017 14:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562004, 1178562011, 1178562014, 1178562016, 1178562017, 1178562039, 1178562040, 1178562041, 1178562042, 1178562043, 1178562044

Results by **8270D SIM LV (PAH)**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
1-Methylnaphthalene	2	1.61	81	(41-115)
2-Methylnaphthalene	2	1.48	74	(39-114)
Acenaphthene	2	1.58	79	(48-114)
Acenaphthylene	2	1.58	79	(35-121)
Anthracene	2	1.49	75	(53-119)
Benzo(a)Anthracene	2	1.60	80	(59-120)
Benzo[a]pyrene	2	1.48	74	(53-120)
Benzo[b]Fluoranthene	2	1.67	84	(53-126)
Benzo[g,h,i]perylene	2	1.67	83	(44-128)
Benzo[k]fluoranthene	2	1.64	82	(54-125)
Chrysene	2	1.66	83	(57-120)
Dibenzo[a,h]anthracene	2	1.45	72	(44-131)
Fluoranthene	2	1.60	80	(58-120)
Fluorene	2	1.54	77	(50-118)
Indeno[1,2,3-c,d] pyrene	2	1.67	83	(48-130)
Naphthalene	2	1.56	78	(43-114)
Phenanthrene	2	1.56	78	(53-115)
Pyrene	2	1.65	83	(53-121)
Surrogates				
2-Methylnaphthalene-d10 (surr)	2	74	74	(47-106)
Fluoranthene-d10 (surr)	2	71	71	(24-116)

Batch Information

Analytical Batch: **XMS10524**
Analytical Method: **8270D SIM LV (PAH)**
Instrument: **SVA Agilent 780/5975 GC/MS**
Analyst: **DSD**

Prep Batch: **XXX38765**
Prep Method: **SW3520C**
Prep Date/Time: **10/30/2017 09:08**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Method Blank

Blank ID: MB for HBN 1771306 [XXX/38780]
Blank Lab ID: 1423469

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	81.9	60-120		%

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 11/2/2017 9:26:00PM

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/1/2017 8:07:14AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38780]
Blank Spike Lab ID: 1423470
Date Analyzed: 11/02/2017 21:36

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38780]
Spike Duplicate Lab ID: 1423471
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	18.9	95	20	18.5	93	(75-125)	2.20	(< 20)
Surrogates									
5a Androstane (surr)	0.4	92.7	93	0.4	92.3	92	(60-120)	0.44	

Batch Information

Analytical Batch: **XFC13943**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38780**
Prep Method: **SW3520C**
Prep Date/Time: **11/01/2017 08:07**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771306 [XXX/38780]
Blank Lab ID: 1423469

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.172J	0.500	0.150	mg/L
Surrogates				
n-Triacontane-d62 (surr)	84.2	60-120		%

Batch Information

Analytical Batch: XFC13943
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 11/2/2017 9:26:00PM

Prep Batch: XXX38780
Prep Method: SW3520C
Prep Date/Time: 11/1/2017 8:07:14AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38780]
Blank Spike Lab ID: 1423470
Date Analyzed: 11/02/2017 21:36

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38780]
Spike Duplicate Lab ID: 1423471
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562001, 1178562002, 1178562003, 1178562004, 1178562005, 1178562006, 1178562007, 1178562008, 1178562009, 1178562010, 1178562011

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	19.4	97	20	19.1	96	(60-120)	1.50	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4	88	88	0.4	86.3	86	(60-120)	1.90	

Batch Information

Analytical Batch: **XFC13943**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38780**
Prep Method: **SW3520C**
Prep Date/Time: **11/01/2017 08:07**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771405 [XXX/38789]
Blank Lab ID: 1423754

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562012, 1178562013, 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.185J	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	91	60-120		%

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 11/7/2017 11:35:00AM

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/2/2017 8:02:18AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38789]
Blank Spike Lab ID: 1423755
Date Analyzed: 11/07/2017 11:45

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38789]
Spike Duplicate Lab ID: 1423756
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562012, 1178562013, 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	19.7	99	20	19.7	98	(75-125)	0.39	(< 20)
Surrogates									
5a Androstane (surr)	0.4	98.6	99	0.4	95.8	96	(60-120)	2.90	

Batch Information

Analytical Batch: **XFC13954**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38789**
Prep Method: **SW3520C**
Prep Date/Time: **11/02/2017 08:02**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771405 [XXX/38789]
Blank Lab ID: 1423754

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562012, 1178562013, 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.391J	0.500	0.150	mg/L
Surrogates				
n-Triacontane-d62 (surr)	93.8	60-120		%

Batch Information

Analytical Batch: XFC13954
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: JMG
Analytical Date/Time: 11/7/2017 11:35:00AM

Prep Batch: XXX38789
Prep Method: SW3520C
Prep Date/Time: 11/2/2017 8:02:18AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38789]
Blank Spike Lab ID: 1423755
Date Analyzed: 11/07/2017 11:45

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38789]
Spike Duplicate Lab ID: 1423756
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562012, 1178562013, 1178562014, 1178562015, 1178562016, 1178562017, 1178562018, 1178562019, 1178562020, 1178562021

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	19.6	98	20	19.6	98	(60-120)	0.28	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4	91.2	91	0.4	91.7	92	(60-120)	0.47	

Batch Information

Analytical Batch: **XFC13954**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **JMG**

Prep Batch: **XXX38789**
Prep Method: **SW3520C**
Prep Date/Time: **11/02/2017 08:02**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771505 [XXX/38797]
Blank Lab ID: 1424011

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	90	60-120		%

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: CMS
Analytical Date/Time: 11/5/2017 5:16:00PM

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/3/2017 9:32:40AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38797]
Blank Spike Lab ID: 1424012
Date Analyzed: 11/05/2017 17:25

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38797]
Spike Duplicate Lab ID: 1424013
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	18.3	92	20	17.5	88	(75-125)	4.50	(< 20)
Surrogates									
5a Androstane (surr)	0.4	94.9	95	0.4	91.3	91	(60-120)	3.90	

Batch Information

Analytical Batch: **XFC13948**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **CMS**

Prep Batch: **XXX38797**
Prep Method: **SW3520C**
Prep Date/Time: **11/03/2017 09:32**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771505 [XXX/38797]
Blank Lab ID: 1424011

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.250U	0.500	0.150	mg/L
Surrogates				
n-Triacontane-d62 (surr)	92.1	60-120		%

Batch Information

Analytical Batch: XFC13948
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: CMS
Analytical Date/Time: 11/5/2017 5:16:00PM

Prep Batch: XXX38797
Prep Method: SW3520C
Prep Date/Time: 11/3/2017 9:32:40AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178562 [XXX38797]
Blank Spike Lab ID: 1424012
Date Analyzed: 11/05/2017 17:25

Spike Duplicate ID: LCSD for HBN 1178562 [XXX38797]
Spike Duplicate Lab ID: 1424013
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1178562022, 1178562023, 1178562024, 1178562025, 1178562026, 1178562027, 1178562028, 1178562029, 1178562030, 1178562031, 1178562032, 1178562033, 1178562034, 1178562035, 1178562036, 1178562037, 1178562038

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	18.8	94	20	18.1	90	(60-120)	4.10	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4	89.9	90	0.4	87.4	87	(60-120)	2.80	

Batch Information

Analytical Batch: **XFC13948**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **CMS**

Prep Batch: **XXX38797**
Prep Method: **SW3520C**
Prep Date/Time: **11/03/2017 09:32**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

1178562

CHAIN-OF-CUSTODY RECORD

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(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

Laboratory SGS
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO	DRO/RRO	VOC's	PAH	Metals	Mercury	EDB	Total Number of Containers	Remarks/Matrix
TWP17-31	(1) A-H	1744	10-24-17			3	2	3					8	GW
TWP17-26	(2) A-H	1646	10-24-17			3	2	3					8	GW
TWP17-126	(3) A-H	1636	10-24-17			3	2	3					8	GW
TWP17-19	(4) A-O	1545	10-24-17			3	2	3	2	1	1	3	8[15]	GW
TWP17-11	(5) A-H	1431	10-24-17			3	2	3					8	GW
TWP17-2	(6) A-H	1130	10-24-17			3	2	3					8	GW
TWP17-3	(7) A-H	1237	10-24-17			3	2	3					8	GW
TWP17-20	(8) A-H	1722	10-24-17			3	2	3					8	GW
TWP17-18	(9) A-H	1627	10-24-17			3	2	3					8	GW
TWP17-13	(10) A-H	1526	10-24-17			3	2	3					8	GW

Project Information	Sample Receipt
Project Number: 260856-004	Total Number of Containers
Project Name: Miller Salvage	COC Seals/Intact? Y/N/NA
Contact: ALF	Received Good Cond./Cold
Ongoing Project? Yes ☒ No ☐	Delivery Method: Hand
Sampler: ALF, APW, KLC, JTM	(attach shipping bill, if any)

Instructions
Requested Turnaround Time: Standard
Special Instructions: Bill to SWI

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: [signature] Time: 1240	Signature: [signature] Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-26-17	Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: [signature] Time: 1240	Signature: Time:	Signature: [signature] Time: 10:40
Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/27/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 4.2, 5.2, 3.0, 2.3, 2.1, 6.0 ANC TB 2.2 D41, 1.9 D40, 1.4 D40 1.7 D40, 3.0 D10, 3.1 D10, 1.1 D40 CS 1F/1B

No. 34764

1178562

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

Laboratory SGS
Attn: Jon

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2043 Westport Center Drive
St. Louis, MO 63146-3564
(314) 699-9660

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907) 561-2120

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO	DRO/RRO	VOCs	PAH	Metals	Mercury	EDB	PFAS	Total Number of Containers	Remarks/Matrix
TWP17-7	(11) A-N	1354	10-24-17			3	2	3	~~2~~ 1 ACE	1	1	3		~~14~~	GW
TWP17-5	(12) A-H	1216	10-24-17			3	2	3						8	GW
TWP17-15	(13) A-H	1735	10-25-17			3	2	3						8	GW
TWP17-25	(14) A-O	1621	10-25-17			3	2	3	2	1	1	3		15	GW
TWP17-125	(15) A-H	1611	10-25-17			3	2	3	~~2~~ ACE	~~1~~ ACE	~~1~~ ACE	~~3~~ ACE		~~15~~ 8	GW
TWP17-23	(16) A-Q	1524	10-25-17			3	2	3	2	1	1	3	1	16	GW
TWP17-36	(17) A-O	1351	10-25-17			3	2	3	2	1	1	3		15	GW
TWP17-27	(18) A-H	1130	10-25-17			3	2	3						8	GW
TWP17-35	(19) A-H	1057	10-25-17			3	2	3						8	GW
TWP17-39	(20) A-H	1004	10-25-17			3	2	3						8	GW

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 12:40	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-26-17	Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1240	Signature: Time:	Signature: Time: 10:40
Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/27/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 4.2,52,3.0,2.3,2.1,6.0

No. 34766

1178562

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN OF CUSTODY RECORD

Laboratory SGS
Attn: Jon

400 N. 34th Street, Suite 100
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(314) 699-9660

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(509) 946-6309

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Anchorage, AK 99518
(907) 561-2120

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO	DRO/RRO	VOCs	PAH	Metals	Mercury	EDB	Total Number of Containers	Remarks/Matrix
TWP17-1	(21) A-H	1646	10-25-17			3	2	3					8	GW
TWP17-101	(22) A-H	1636	10-25-17			3	2	3					8	GW
TWP17-4	(23) A-H	1555	10-25-17			3	2	3					8	GW
TWP17-8	(24) A-H	1432	10-25-17			3	2	3					8	GW
TWP17-17	(25) A-H	1345	10-25-17			3	2	3					8	GW
TWP17-21	(26) A-H	1242	10-25-17			3	2	3					8	GW
TWP17-32	(27) A-H	1145	10-25-17			3	2	3					8	GW
TWP17-34	(28) A-H	1044	10-25-17			3	2	3					8	GW
TWP17-37	(29) A-H	1013	10-25-17			3	2	3					8	GW
TWP17-33	(30) A-H	0931	10-25-17			3	2	3					8	GW

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Fuhr Time: 12:40	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fuhr Date: 10-26-17	Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1240	Signature: Time:	Signature: Time: 10:46
Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/27/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

Page 297 of 333

F-19-91/UR

TB 4.2, 5.2, 30, 7.3, 2.1, 6.0

No. 34765

1178562

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

Laboratory SGS
Attn: JBR

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2043 Westport Center Drive
St. Louis, MO 63146-3564
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(509) 946-6309

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Anchorage, AK 99518
(907) 561-2120

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO	DRO/RRO	VOCs	PAH	Metals	Mercury	EDB	PFAS	Total Number of Containers	Remarks/Matrix
TWP17-41	(31) A-H	1118	10-25-17			3	2	3						8	GW
TWP17-43	(32) A-H	1208	10-25-17			3	2	3						8	GW
TWP17-44	(33) A-H	1256	10-25-17			3	2	3						8	GW
TWP17-12	(34) A-H	1402	10-25-17			3	2	3						8	GW
TWP17-6	(35) A-H	1600	10-25-17			3	2	3						8	GW
TWP17-106	(36) A-H	1550	10-25-17			3	2	3						8	GW
TWP17-9	(37) A-H	1656	10-25-17			3	2	3						8	GW
TWP17-38	(38) A-H	1006	10-25-17			3	2	3						8	GW
TWP17-22	(39) A-~~G~~ H (HTP 10/27/17)	1806	10-23-17						X 1	1	1	3	1	7	GW
~~TWP17-122~~		1756	10-23-17						X	X	X	X	1	X 1	GW

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 17:40	Signature: Time: 1600	Signature: Time:
Printed Name: Date: 10-26-17	Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1740	Signature: Time:	Signature: Time: 10:40
Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/27/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 4.2,52,3.0,2.3,2.1,6.0

No. 34767

1178562

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2043 Westport Center Drive
St. Louis, MO 63146-3564
(314) 699-9660

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
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2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907) 561-2120

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

Laboratory SGS
Attn: Jen

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO	DRO/RRO	VOCs	PAH	Metals	Mercury	EDB	PFAS	Total Number of Containers	Remarks/Matrix
TWP17-14	(40) A-F	12:59	10-23-17						1	1	1	3		6	GW
TWP17-29	(41) A-F	1445	10-23-17						1	1	1	3		6	GW
TWP17-40	(42) A-F	1606	10-23-17						1	1	1	3		6	GW
TWP17-140	(43) A-F	1556	10-23-17						1	1	1	3		6	GW
TWP17-10	(44) A-F	1035	10-23-17						1	1	1	3		6	GW
TWP17-122	(45) A-B	1756	10-23-17										1		GW
	(46) A-C														
	(47) A-C														
	(48) A-C														
	(49) A-C	(50) A-C	(51) A-C	(52) A-F											

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☑ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 12:40	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-26-17	Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1240	Signature: Time:	Signature: Time: 10:40
Printed Name: Nicole Warner Date: 10/26/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/27/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 4.2.5-2, 3.0, 2.3.2.1, 6.0

No. 34768

SGS

1178562
~~SGS WO~~#

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No ~~N/A~~ ~~Yes~~ No N/A	☐*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 4.2 w/Therm. ID: D23 Cooler ID: 2 @ 5.2 w/Therm. ID: D25 Cooler ID: 3 @ 3.0 w/Therm. ID: D23 Cooler ID: 4 @ 2.3 w/Therm. ID: D25 Cooler ID: 5 @ 2.1 w/Therm. ID: D23 If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	~~Yes~~ No Yes No ~~N/A~~ Yes No ~~N/A~~ 6 @ 6.0 D25	☐*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: ~~Client (hand carried)~~ Other:_____	Tracking/AB# : Or see attached ~~Or N/A~~	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): ~~Bubble Wrap~~ Separate plastic bags Vermiculite Other:_____	~~Yes~~ No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	~~Yes~~ No N/A	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No ~~N/A~~ Yes No ~~N/A~~	

Additional notes (if applicable):

PAH's @ low volume (1 jar per sample)

Profile #: 337923

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

SGS

Cooler Packing Form For Fairbanks

Cooler ID 3 Cooler Temperature 2.2 DAI

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	TWP17-26	DRO/RRO: pg 1
	TWP17-126	
	TWP17-19	+ PAHs
	TWP17-11	
	TWP17-2	
	TWP17-3	
	TWP17-36	PAH ~~DRO/RRO~~ pg2 + DRO/RRO
	TWP17-27	+ DRO/RRO
	TWP17-7	
	TWP17-25	
	TWP17-23	
	TWP17-35	
	TWP17-22	PAH pg 5
	TWP17-14	
	TWP17-29	
	TWP17-40	
	TWP17-140	
	TWP17-10	

SGS

Cooler Packing Form For Fairbanks

Cooler ID 4 Cooler Temperature 1.9 D40

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	TB1, TB2, TB3, TB4	TB1 + TB2 = GRO TB3 + TB4 = VOC
	DRO/RROs: TWP17-1 TWP17-9 TWP17-6 TWP17-12 TWP17-106	
	GRO: TWP17-19, TWP17-125 TWP17-23, TWP17-20 TWP17-36, TWP17-5 TWP17-7, TWP17-27 TWP17-13, TWP17-35 TWP17-25, TWP17-26 TWP17-2, TWP17-31 TWP17-3, TWP17-11 TWP17-126, TWP17-18 TWP17-39, TWP17-15	All GRO from pages 1 & 2
	VOCs: TWP17-23, TWP17-35 TWP17-36, TWP17-126 TWP17-7, TWP17-26 TWP17-19, TWP17-31 TWP17-2, TWP17-18 TWP17-11, TWP17-5 TWP17-3, TWP17-13 TWP17-125, TWP17-15 TWP17-39 TWP17-25 TWP17-27 TWP17-20	All VOC from pages 1 & 2

SGS

Cooler Packing Form For Fairbanks

Cooler ID 5 Cooler Temperature 1.4 D40

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	TWP17-41	ALL GRO +VOCs
	-43	
	-44	
	-12	
	-6	
	-106	
	-9	
	-38	
	-22	(pg. 4)
	TWP17-1	ALL GRO+VOCs
	-101	
	-4	
	-8	
	-17	
	-21	
	-32	
	-34	
	-37	
	-33	(pg 3)
	TB 5	
	TB 6	

Cooler Packing Form For Fairbanks

Cooler ID 6 Cooler Temperature 1.7 D41

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	TWP17-7	Metals/Mercury pg1 DRO/RRO
	TWP17-18	DRO/RRO pg1
	TWP17-13	DRO/RRO pg1
	TWP17-5	DRO/RRO pg 2
	~~P~~ TWP17-20	DRO/RRO pg 1
	TWP17-31	DRO/RRO pg 1
	TWP17-23	DRO/RRO pg2 & Metals/mercury
	TWP17-125	DRO/RRO pg2
	TWP17-25	DRO/RRO pg2 & Metals/mercury
	TWP17-30	DRO/RRO pg2
	TWP17-15	DRO/RRO pg2
	TWP17-39	DRO/RRO pg 2
	TWP17-22	Metals/mercury pg 5
	TWP17-14	
	TWP17-29	
	TWP17-40	
	TWP17-140	
	TWP17-10	
	TWP17-36	Metals/mercury pg2
	TWP17-19	Metals/mercury pg1
	~~TWP17-23~~	
	~~DRO~~ 10/27/17	

10/27/17 DRO

Cooler Packing Form For Fairbanks

Cooler ID 7 Cooler Temperature 3.0 D10

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	DRO/RROs:	
	TWP17-8	
	TWP17-4	
	TWP17-101	
	~~TWP17-27~~ NCW 10/27/17	
	TWP17-21	
	TWP17-32	
	TWP17-17	
	TWP17-34	
	TWP17-37	
	TWP17-33	
	TWP17-41	
	TWP17-38	
	TWP17-43	
	TWP17-44	

Cooler Packing Form For Fairbanks

Cooler ID 9 Cooler Temperature 3.1 D10

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178560	ALL	
1178559	ALL	
1178502	ALL EDB vials + EDB TB x2	

Cooler Packing Form For Fairbanks

Cooler ID 11 Cooler Temperature 1.1 D40

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178562	All PFOA/PFOS Samples	

e-Sample Receipt Form

SGS Workorder #: **1178562**

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		N/A Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Yes	1F 1B
COC accompanied samples?	Yes	
N/a **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 3 @ 2.2 °C Therm. ID: D41
	Yes	Cooler ID: 4 @ 1.9 °C Therm. ID: D40
	Yes	Cooler ID: 5 @ 1.4 °C Therm. ID: D40
	Yes	Cooler ID: 6 @ 1.7 °C Therm. ID: D41
	Yes	Cooler ID: 7 @ 3.0 °C Therm. ID: D10
If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		Cooler 9: 3.1 D10; Cooler 11: 1.1 D40
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	Yes	
		Yes ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	No	See additional notes.
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Yes	TB 1 & TB 2 (sample 46 & 47) for GRO samples 1-20, TB 3 &TB 4 (sample 48 & 49) for VOC samples 1-20, TB5 & TB 6 (samples 50 & 51) for samples 21-38. TB 7 for EDB samples.
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	Yes	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Samples 4K,L,44B unpreserved 2mL of HNO3 added LW09-0463-09-15, sample 19H unpreserved 2mL of HCl added LW09-0463-12-021, pH checked.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178562001-A	HCL to pH < 2	OK	1178562005-D	HCL to pH < 2	OK
1178562001-B	HCL to pH < 2	OK	1178562005-E	HCL to pH < 2	OK
1178562001-C	HCL to pH < 2	OK	1178562005-F	HCL to pH < 2	OK
1178562001-D	HCL to pH < 2	OK	1178562005-G	HCL to pH < 2	OK
1178562001-E	HCL to pH < 2	OK	1178562005-H	HCL to pH < 2	OK
1178562001-F	HCL to pH < 2	OK	1178562006-A	HCL to pH < 2	OK
1178562001-G	HCL to pH < 2	OK	1178562006-B	HCL to pH < 2	OK
1178562001-H	HCL to pH < 2	OK	1178562006-C	HCL to pH < 2	OK
1178562002-A	HCL to pH < 2	OK	1178562006-D	HCL to pH < 2	OK
1178562002-B	HCL to pH < 2	OK	1178562006-E	HCL to pH < 2	OK
1178562002-C	HCL to pH < 2	OK	1178562006-F	HCL to pH < 2	OK
1178562002-D	HCL to pH < 2	OK	1178562006-G	HCL to pH < 2	OK
1178562002-E	HCL to pH < 2	OK	1178562006-H	HCL to pH < 2	OK
1178562002-F	HCL to pH < 2	OK	1178562007-A	HCL to pH < 2	OK
1178562002-G	HCL to pH < 2	OK	1178562007-B	HCL to pH < 2	OK
1178562002-H	HCL to pH < 2	OK	1178562007-C	HCL to pH < 2	OK
1178562003-A	HCL to pH < 2	OK	1178562007-D	HCL to pH < 2	OK
1178562003-B	HCL to pH < 2	OK	1178562007-E	HCL to pH < 2	OK
1178562003-C	HCL to pH < 2	OK	1178562007-F	HCL to pH < 2	OK
1178562003-D	HCL to pH < 2	OK	1178562007-G	HCL to pH < 2	OK
1178562003-E	HCL to pH < 2	OK	1178562007-H	HCL to pH < 2	OK
1178562003-F	HCL to pH < 2	OK	1178562008-A	HCL to pH < 2	OK
1178562003-G	HCL to pH < 2	OK	1178562008-B	HCL to pH < 2	OK
1178562003-H	HCL to pH < 2	OK	1178562008-C	HCL to pH < 2	OK
1178562004-A	HCL to pH < 2	OK	1178562008-D	HCL to pH < 2	OK
1178562004-B	HCL to pH < 2	OK	1178562008-E	HCL to pH < 2	OK
1178562004-C	HCL to pH < 2	OK	1178562008-F	HCL to pH < 2	OK
1178562004-D	HCL to pH < 2	OK	1178562008-G	HCL to pH < 2	OK
1178562004-E	HCL to pH < 2	OK	1178562008-H	HCL to pH < 2	OK
1178562004-F	HCL to pH < 2	OK	1178562009-A	HCL to pH < 2	OK
1178562004-G	No Preservative Required	OK	1178562009-B	HCL to pH < 2	OK
1178562004-H	No Preservative Required	OK	1178562009-C	HCL to pH < 2	OK
1178562004-I	No Preservative Required	OK	1178562009-D	HCL to pH < 2	OK
1178562004-J	HCL to pH < 2	OK	1178562009-E	HCL to pH < 2	OK
1178562004-K	HCL to pH < 2	OK	1178562009-F	HCL to pH < 2	OK
1178562004-L	No Preservative Required	OK	1178562009-G	HCL to pH < 2	OK
1178562004-M	No Preservative Required	OK	1178562009-H	HCL to pH < 2	OK
1178562004-N	HNO3 to pH < 2	PA	1178562010-A	HCL to pH < 2	OK
1178562004-O	HNO3 to pH < 2	PA	1178562010-B	HCL to pH < 2	OK
1178562005-A	HCL to pH < 2	OK	1178562010-C	HCL to pH < 2	OK
1178562005-B	HCL to pH < 2	OK	1178562010-D	HCL to pH < 2	OK
1178562005-C	HCL to pH < 2	OK	1178562010-E	HCL to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178562010-F	HCL to pH < 2	OK	1178562014-O	HNO3 to pH < 2	OK
1178562010-G	HCL to pH < 2	OK	1178562015-A	HCL to pH < 2	OK
1178562010-H	HCL to pH < 2	OK	1178562015-B	HCL to pH < 2	OK
1178562011-A	HCL to pH < 2	OK	1178562015-C	HCL to pH < 2	OK
1178562011-B	HCL to pH < 2	OK	1178562015-D	HCL to pH < 2	OK
1178562011-C	HCL to pH < 2	OK	1178562015-E	HCL to pH < 2	OK
1178562011-D	HCL to pH < 2	OK	1178562015-F	HCL to pH < 2	OK
1178562011-E	HCL to pH < 2	OK	1178562015-G	HCL to pH < 2	OK
1178562011-F	HCL to pH < 2	OK	1178562015-H	HCL to pH < 2	OK
1178562011-G	No Preservative Required	OK	1178562016-A	HCL to pH < 2	OK
1178562011-H	No Preservative Required	OK	1178562016-B	HCL to pH < 2	OK
1178562011-I	No Preservative Required	OK	1178562016-C	HCL to pH < 2	OK
1178562011-J	HCL to pH < 2	OK	1178562016-D	HCL to pH < 2	OK
1178562011-K	HCL to pH < 2	OK	1178562016-E	HCL to pH < 2	OK
1178562011-L	No Preservative Required	OK	1178562016-F	HCL to pH < 2	OK
1178562011-M	HNO3 to pH < 2	OK	1178562016-G	No Preservative Required	OK
1178562011-N	HNO3 to pH < 2	OK	1178562016-H	No Preservative Required	OK
1178562012-A	HCL to pH < 2	OK	1178562016-I	No Preservative Required	OK
1178562012-B	HCL to pH < 2	OK	1178562016-J	HCL to pH < 2	OK
1178562012-C	HCL to pH < 2	OK	1178562016-K	HCL to pH < 2	OK
1178562012-D	HCL to pH < 2	OK	1178562016-L	No Preservative Required	OK
1178562012-E	HCL to pH < 2	OK	1178562016-M	No Preservative Required	OK
1178562012-F	HCL to pH < 2	OK	1178562016-N	HNO3 to pH < 2	OK
1178562012-G	HCL to pH < 2	OK	1178562016-O	HNO3 to pH < 2	OK
1178562012-H	HCL to pH < 2	OK	1178562016-P	No Preservative Required	OK
1178562013-A	HCL to pH < 2	OK	1178562016-Q	No Preservative Required	OK
1178562013-B	HCL to pH < 2	OK	1178562017-A	HCL to pH < 2	OK
1178562013-C	HCL to pH < 2	OK	1178562017-B	HCL to pH < 2	OK
1178562013-D	HCL to pH < 2	OK	1178562017-C	HCL to pH < 2	OK
1178562013-E	HCL to pH < 2	OK	1178562017-D	HCL to pH < 2	OK
1178562013-F	HCL to pH < 2	OK	1178562017-E	HCL to pH < 2	OK
1178562013-G	HCL to pH < 2	OK	1178562017-F	HCL to pH < 2	OK
1178562013-H	HCL to pH < 2	OK	1178562017-G	No Preservative Required	OK
1178562014-A	HCL to pH < 2	OK	1178562017-H	No Preservative Required	OK
1178562014-B	HCL to pH < 2	OK	1178562017-I	No Preservative Required	OK
1178562014-C	HCL to pH < 2	OK	1178562017-J	HCL to pH < 2	OK
1178562014-D	HCL to pH < 2	OK	1178562017-K	HCL to pH < 2	OK
1178562014-E	HCL to pH < 2	OK	1178562017-L	No Preservative Required	OK
1178562014-F	HCL to pH < 2	OK	1178562017-M	No Preservative Required	OK
1178562014-G	No Preservative Required	OK	1178562017-N	HNO3 to pH < 2	OK
1178562014-H	No Preservative Required	OK	1178562017-O	HNO3 to pH < 2	OK
1178562014-I	No Preservative Required	OK	1178562018-A	HCL to pH < 2	OK
1178562014-J	HCL to pH < 2	OK	1178562018-B	HCL to pH < 2	OK
1178562014-K	HCL to pH < 2	OK	1178562018-C	HCL to pH < 2	OK
1178562014-L	No Preservative Required	OK	1178562018-D	HCL to pH < 2	OK
1178562014-M	No Preservative Required	OK	1178562018-E	HCL to pH < 2	OK
1178562014-N	HNO3 to pH < 2	OK	1178562018-F	HCL to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178562018-G	HCL to pH < 2	OK	1178562024-F	HCL to pH < 2	OK
1178562018-H	HCL to pH < 2	OK	1178562024-G	HCL to pH < 2	OK
1178562019-A	HCL to pH < 2	OK	1178562024-H	HCL to pH < 2	OK
1178562019-B	HCL to pH < 2	OK	1178562025-A	HCL to pH < 2	OK
1178562019-C	HCL to pH < 2	OK	1178562025-B	HCL to pH < 2	OK
1178562019-D	HCL to pH < 2	OK	1178562025-C	HCL to pH < 2	OK
1178562019-E	HCL to pH < 2	OK	1178562025-D	HCL to pH < 2	OK
1178562019-F	HCL to pH < 2	OK	1178562025-E	HCL to pH < 2	OK
1178562019-G	HCL to pH < 2	OK	1178562025-F	HCL to pH < 2	OK
1178562019-H	HCL to pH < 2	PA	1178562025-G	HCL to pH < 2	OK
1178562020-A	HCL to pH < 2	OK	1178562025-H	HCL to pH < 2	OK
1178562020-B	HCL to pH < 2	OK	1178562026-A	HCL to pH < 2	OK
1178562020-C	HCL to pH < 2	OK	1178562026-B	HCL to pH < 2	OK
1178562020-D	HCL to pH < 2	OK	1178562026-C	HCL to pH < 2	OK
1178562020-E	HCL to pH < 2	OK	1178562026-D	HCL to pH < 2	OK
1178562020-F	HCL to pH < 2	OK	1178562026-E	HCL to pH < 2	OK
1178562020-G	HCL to pH < 2	OK	1178562026-F	HCL to pH < 2	OK
1178562020-H	HCL to pH < 2	OK	1178562026-G	HCL to pH < 2	OK
1178562021-A	HCL to pH < 2	OK	1178562026-H	HCL to pH < 2	OK
1178562021-B	HCL to pH < 2	OK	1178562027-A	HCL to pH < 2	OK
1178562021-C	HCL to pH < 2	OK	1178562027-B	HCL to pH < 2	OK
1178562021-D	HCL to pH < 2	OK	1178562027-C	HCL to pH < 2	OK
1178562021-E	HCL to pH < 2	OK	1178562027-D	HCL to pH < 2	OK
1178562021-F	HCL to pH < 2	OK	1178562027-E	HCL to pH < 2	OK
1178562021-G	HCL to pH < 2	OK	1178562027-F	HCL to pH < 2	OK
1178562021-H	HCL to pH < 2	OK	1178562027-G	HCL to pH < 2	OK
1178562022-A	HCL to pH < 2	OK	1178562027-H	HCL to pH < 2	OK
1178562022-B	HCL to pH < 2	OK	1178562028-A	HCL to pH < 2	OK
1178562022-C	HCL to pH < 2	OK	1178562028-B	HCL to pH < 2	OK
1178562022-D	HCL to pH < 2	OK	1178562028-C	HCL to pH < 2	OK
1178562022-E	HCL to pH < 2	OK	1178562028-D	HCL to pH < 2	OK
1178562022-F	HCL to pH < 2	OK	1178562028-E	HCL to pH < 2	OK
1178562022-G	HCL to pH < 2	OK	1178562028-F	HCL to pH < 2	OK
1178562022-H	HCL to pH < 2	OK	1178562028-G	HCL to pH < 2	OK
1178562023-A	HCL to pH < 2	OK	1178562028-H	HCL to pH < 2	OK
1178562023-B	HCL to pH < 2	OK	1178562029-A	HCL to pH < 2	OK
1178562023-C	HCL to pH < 2	OK	1178562029-B	HCL to pH < 2	OK
1178562023-D	HCL to pH < 2	OK	1178562029-C	HCL to pH < 2	OK
1178562023-E	HCL to pH < 2	OK	1178562029-D	HCL to pH < 2	OK
1178562023-F	HCL to pH < 2	OK	1178562029-E	HCL to pH < 2	OK
1178562023-G	HCL to pH < 2	OK	1178562029-F	HCL to pH < 2	OK
1178562023-H	HCL to pH < 2	OK	1178562029-G	HCL to pH < 2	OK
1178562024-A	HCL to pH < 2	OK	1178562029-H	HCL to pH < 2	OK
1178562024-B	HCL to pH < 2	OK	1178562030-A	HCL to pH < 2	OK
1178562024-C	HCL to pH < 2	OK	1178562030-B	HCL to pH < 2	OK
1178562024-D	HCL to pH < 2	OK	1178562030-C	HCL to pH < 2	OK
1178562024-E	HCL to pH < 2	OK	1178562030-D	HCL to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178562030-E	HCL to pH < 2	OK	1178562036-D	HCL to pH < 2	OK
1178562030-F	HCL to pH < 2	OK	1178562036-E	HCL to pH < 2	OK
1178562030-G	HCL to pH < 2	OK	1178562036-F	HCL to pH < 2	OK
1178562030-H	HCL to pH < 2	OK	1178562036-G	HCL to pH < 2	OK
1178562031-A	HCL to pH < 2	OK	1178562036-H	HCL to pH < 2	OK
1178562031-B	HCL to pH < 2	OK	1178562037-A	HCL to pH < 2	OK
1178562031-C	HCL to pH < 2	OK	1178562037-B	HCL to pH < 2	OK
1178562031-D	HCL to pH < 2	OK	1178562037-C	HCL to pH < 2	OK
1178562031-E	HCL to pH < 2	OK	1178562037-D	HCL to pH < 2	OK
1178562031-F	HCL to pH < 2	OK	1178562037-E	HCL to pH < 2	OK
1178562031-G	HCL to pH < 2	OK	1178562037-F	HCL to pH < 2	OK
1178562031-H	HCL to pH < 2	OK	1178562037-G	HCL to pH < 2	OK
1178562032-A	HCL to pH < 2	OK	1178562037-H	HCL to pH < 2	OK
1178562032-B	HCL to pH < 2	OK	1178562038-A	HCL to pH < 2	OK
1178562032-C	HCL to pH < 2	OK	1178562038-B	HCL to pH < 2	OK
1178562032-D	HCL to pH < 2	OK	1178562038-C	HCL to pH < 2	OK
1178562032-E	HCL to pH < 2	OK	1178562038-D	HCL to pH < 2	OK
1178562032-F	HCL to pH < 2	OK	1178562038-E	HCL to pH < 2	OK
1178562032-G	HCL to pH < 2	OK	1178562038-F	HCL to pH < 2	OK
1178562032-H	HCL to pH < 2	OK	1178562038-G	HCL to pH < 2	OK
1178562033-A	HCL to pH < 2	OK	1178562038-H	HCL to pH < 2	OK
1178562033-B	HCL to pH < 2	OK	1178562039-A	No Preservative Required	OK
1178562033-C	HCL to pH < 2	OK	1178562039-B	No Preservative Required	OK
1178562033-D	HCL to pH < 2	OK	1178562039-C	No Preservative Required	OK
1178562033-E	HCL to pH < 2	OK	1178562039-D	No Preservative Required	OK
1178562033-F	HCL to pH < 2	OK	1178562039-E	HNO3 to pH < 2	OK
1178562033-G	HCL to pH < 2	OK	1178562039-F	HNO3 to pH < 2	OK
1178562033-H	HCL to pH < 2	OK	1178562039-G	No Preservative Required	OK
1178562034-A	HCL to pH < 2	OK	1178562039-H	No Preservative Required	OK
1178562034-B	HCL to pH < 2	OK	1178562040-A	No Preservative Required	OK
1178562034-C	HCL to pH < 2	OK	1178562040-B	No Preservative Required	OK
1178562034-D	HCL to pH < 2	OK	1178562040-C	No Preservative Required	OK
1178562034-E	HCL to pH < 2	OK	1178562040-D	No Preservative Required	OK
1178562034-F	HCL to pH < 2	OK	1178562040-E	HNO3 to pH < 2	OK
1178562034-G	HCL to pH < 2	OK	1178562040-F	HNO3 to pH < 2	OK
1178562034-H	HCL to pH < 2	OK	1178562041-A	No Preservative Required	OK
1178562035-A	HCL to pH < 2	OK	1178562041-B	No Preservative Required	OK
1178562035-B	HCL to pH < 2	OK	1178562041-C	No Preservative Required	OK
1178562035-C	HCL to pH < 2	OK	1178562041-D	No Preservative Required	OK
1178562035-D	HCL to pH < 2	OK	1178562041-E	HNO3 to pH < 2	OK
1178562035-E	HCL to pH < 2	OK	1178562041-F	HNO3 to pH < 2	OK
1178562035-F	HCL to pH < 2	OK	1178562042-A	No Preservative Required	OK
1178562035-G	HCL to pH < 2	OK	1178562042-B	No Preservative Required	OK
1178562035-H	HCL to pH < 2	OK	1178562042-C	No Preservative Required	OK
1178562036-A	HCL to pH < 2	OK	1178562042-D	No Preservative Required	OK
1178562036-B	HCL to pH < 2	OK	1178562042-E	HNO3 to pH < 2	OK
1178562036-C	HCL to pH < 2	OK	1178562042-F	HNO3 to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178562043-A	No Preservative Required	OK			
1178562043-B	No Preservative Required	OK			
1178562043-C	No Preservative Required	OK			
1178562043-D	No Preservative Required	OK			
1178562043-E	HNO3 to pH < 2	OK			
1178562043-F	HNO3 to pH < 2	OK			
1178562044-A	No Preservative Required	OK			
1178562044-B	No Preservative Required	OK			
1178562044-C	No Preservative Required	OK			
1178562044-D	No Preservative Required	OK			
1178562044-E	HNO3 to pH < 2	PA			
1178562044-F	HNO3 to pH < 2	OK			
1178562045-A	No Preservative Required	OK			
1178562045-B	No Preservative Required	OK			
1178562046-A	HCL to pH < 2	OK			
1178562046-B	HCL to pH < 2	OK			
1178562046-C	HCL to pH < 2	OK			
1178562047-A	HCL to pH < 2	OK			
1178562047-B	HCL to pH < 2	OK			
1178562047-C	HCL to pH < 2	OK			
1178562048-A	HCL to pH < 2	OK			
1178562048-B	HCL to pH < 2	OK			
1178562048-C	HCL to pH < 2	OK			
1178562049-A	HCL to pH < 2	OK			
1178562049-B	HCL to pH < 2	OK			
1178562049-C	HCL to pH < 2	OK			
1178562050-A	HCL to pH < 2	OK			
1178562050-B	HCL to pH < 2	OK			
1178562050-C	HCL to pH < 2	OK			
1178562051-A	HCL to pH < 2	OK			
1178562051-B	HCL to pH < 2	OK			
1178562051-C	HCL to pH < 2	OK			
1178562052-A	No Preservative Required	OK			
1178562052-B	No Preservative Required	OK			
1178562052-C	No Preservative Required	OK			
1178562052-D	No Preservative Required	OK			
1178562052-E	No Preservative Required	OK			
1178562052-F	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

e-Hardcopy 2.0
Automated Report

Technical Report for

SGS North America, Inc

1178562

SGS Accutest Job Number: FA48907

Sampling Date: 10/25/17

Report to:

SGS North America, Inc
200 W Potter Dr
Anchorage, AK 99518
julie.shumway@sgs.com

ATTN: Julie Shumway

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Sample Summary

SGS North America, Inc

1178562

Job No: FA48907

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA48907-1	10/25/17	15:24	JS	10/31/17	AQ	Water	TWP17-23
FA48907-2	10/25/17	18:06	JS	10/31/17	AQ	Water	TWP17-22
FA48907-3	10/25/17	17:56	JS	10/31/17	AQ	Water	TWP17-122

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS North America, Inc **Job No:** FA48907

Site: 1178562 **Report Date** 11/13/2017 6:17:07 PM

3 Samples were collected on 10/25/2017 and were received at SGS Accutest Southeast (SASE) on 10/31/2017 properly preserved, at 4.8 Deg. C and intact. These Samples received an SASE job number of FA48907. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Semi-volatiles By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP67486

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA48763-25DUP, FA48763-22MS were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorooctanesulfonic acid, Perfluorooctanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for Duplicate for Perfluorooctanesulfonic acid are outside control limits for sample OP67486-DUP. Probable cause is due to sample non-homogeneity.

Sample(s) OP67486-MS have surrogates outside control limits. Probable cause is due to matrix interference.

OP67486-MS for 13C2-PFDA: Outside control limits due to dilution.

OP67486-MS for 13C2-PFHxA: Outside control limits due to dilution.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____

Lovelie Metzgar, QA Officer (signature on file)

Date: November 13, 2017

Summary of Hits

Job Number: FA48907
Account: SGS North America, Inc
Project: 1178562
Collected: 10/25/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA48907-1	**TWP17-23**					
Perfluorooctanoic acid		0.00000641 J	0.000017	0.0000042	mg/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.00000792 J	0.000017	0.0000042	mg/l	EPA 537 MOD
FA48907-2	**TWP17-22**					
Perfluorooctanoic acid		0.00000787 J	0.000017	0.0000042	mg/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.00000600 J	0.000017	0.0000042	mg/l	EPA 537 MOD
FA48907-3	**TWP17-122**					
Perfluorooctanoic acid		0.00000850 J	0.000017	0.0000042	mg/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.00000539 J	0.000017	0.0000042	mg/l	EPA 537 MOD

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TWP17-23		
Lab Sample ID:	FA48907-1	**Date Sampled:**	10/25/17
Matrix:	AQ - Water	**Date Received:**	10/31/17
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	1178562		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q8234.D	1	11/11/17 19:59	NG	11/03/17 14:00	OP67486	S2Q165
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
335-67-1	Perfluorooctanoic acid	0.00000641	0.0000170	0.0000042	ng/l	J
PERFLUOROALKYLSULFONATES						
1763-23-1	Perfluorooctanesulfonic acid	0.00000792	0.0000170	0.0000042	ng/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	107%		61-134%
	13C2-PFDA	114%		62-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP17-22		
Lab Sample ID:	FA48907-2	**Date Sampled:**	10/25/17
Matrix:	AQ - Water	**Date Received:**	10/31/17
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	1178562		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q8235.D	1	11/11/17 20:18	NG	11/03/17 14:00	OP67486	S2Q165
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
335-67-1	Perfluorooctanoic acid	0.00000787	0.0000170	0.0000042	ng/l	J
PERFLUOROALKYLSULFONATES						
1763-23-1	Perfluorooctanesulfonic acid	0.00000600	0.0000170	0.0000042	ng/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%		61-134%
	13C2-PFDA	108%		62-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP17-122		
Lab Sample ID:	FA48907-3	**Date Sampled:**	10/25/17
Matrix:	AQ - Water	**Date Received:**	10/31/17
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	1178562		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q8236.D	1	11/11/17 20:36	NG	11/03/17 14:00	OP67486	S2Q165
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
335-67-1	Perfluorooctanoic acid	0.00000850	0.0000170	0.0000042	ng/l	J
PERFLUOROALKYLSULFONATES						
1763-23-1	Perfluorooctanesulfonic acid	0.00000539	0.0000170	0.0000042	ng/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	106%		61-134%
	13C2-PFDA	112%		62-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA48907 4090

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1178562

Locations Nationwide

Alaska	Maryland
New Jersey	New York
North Carolina	Indiana
West Virginia	Kentucky

www.us.sgs.com

CLIENT: SGS North America Inc. - Alaska Division

SGS Reference: **SGS Orlando**

Page 1 of 1

CONTACT: Julie Shumway PHONE NO: (907) 562-2343

Additional Comments: All soils report out in dry weight unless otherwise requested.

PROJECT NAME: 1178562 PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL: Julie.Shumway@sgs.com

INVOICE TO: SGS - Alaska QUOTE #: P.O. #: 1178562

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX	# CONTAINERS	Preservative Used: TYPE C = COMP G = GRAB Incremental Soils	PFOS/PFOA					MS	MSD	SGS lab #	Loc ID	REMARKS
1	TWP17-23	10/25/2017	1524	WATER	2	GRAB	X							1178562016		
2	TWP17-22	10/23/2017	1806	WATER	2	GRAB	X							1178562039		
3	TWP17-122	10/23/2017	1756	WATER	2	GRAB	X							1178562045		

Relinquished By	Date	Time	Received By
(1) J Shumway	10/30/17	0903	Fed Ex
(2) Fed Ex			[signature] 10/31/17 9:15
(3)			Received By:
(4)			Received For Laboratory By:

DOD Project? ☐ YES ☑ NO

Report to DL (J Flags) ☑

Cooler ID:

Data Deliverable Requirements: Level 2 + Excel EDD

Requested Turnaround Time and-or Special Instructions:

Standard

Report all analyses for Soils/Waters in mg/L or mg/Kg

Temp Blank °C: 4.8 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

[X] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301

[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

1178562_PFOSPFOA_10.30.17.xls

FA48907: Chain of Custody
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5.1 5

SGS Accutest Sample Receipt Summary

Job Number: FA48907 **Client:** SGS NORTH AMERICA INC. **Project:** 1178562

Date / Time Received: 10/31/2017 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1ZA8619W0164075324

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.4);

Cooler Temps (Corrected) °C: Cooler 1: (4.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CORYR Date: 10/31/2017 9:15:00 A Reviewer: P.H Date: 10/31/2017

FA48907: Chain of Custody
Page 2 of 2

MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-MB	2Q8148.D	1	11/10/17	NG	11/03/17	OP67486	S2Q164

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	Result	RL	MDL	Units	Q
335-67-1	Perfluorooctanoic acid	ND	0.017	0.0042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.00489	0.017	0.0042	ug/l	J

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	119%	61-134%
	13C2-PFDA	109%	62-128%

Method Blank Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-MB	2Q8218.D	1	11/11/17	NG	11/03/17	OP67486	S2Q165

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	Result	RL	MDL	Units	Q
335-67-1	Perfluorooctanoic acid	ND	0.017	0.0042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.017	0.0042	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	123%	61-134%
	13C2-PFDA	119%	62-128%

Blank Spike Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-BS	2Q8147.D	1	11/10/17	NG	11/03/17	OP67486	S2Q164

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
335-67-1	Perfluorooctanoic acid	0.167	0.183	110	74-137
1763-23-1	Perfluorooctanesulfonic acid	0.167	0.158	95	70-134

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	61-134%
	13C2-PFDA	107%	62-128%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-BS	2Q8217.D	1	11/11/17	NG	11/03/17	OP67486	S2Q165

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
335-67-1	Perfluorooctanoic acid	0.167	0.186	112	74-137
1763-23-1	Perfluorooctanesulfonic acid	0.167	0.158	95	70-134

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	108%	61-134%
	13C2-PFDA	100%	62-128%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-MS	2Q8151.D	5000	11/10/17	NG	11/03/17	OP67486	S2Q164
FA48763-22	2Q8149.D	500	11/10/17	NG	11/03/17	OP67486	S2Q164
FA48763-22	2Q8150.D	5000	11/10/17	NG	11/03/17	OP67486	S2Q164

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	FA48763-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
335-67-1	Perfluorooctanoic acid	42.3		0.167	ND	-25380* [a]	74-137
1763-23-1	Perfluorooctanesulfonic acid	2330 [b]	B	0.167	267	-12377900* [a]	70-134

CAS No.	Surrogate Recoveries	MS	FA48763-22	FA48763-22	Limits
	13C2-PFHxA	0%* [c]	0%* [c]	0%* [c]	61-134%
	13C2-PFDA	0%* [c]	0%* [c]	0%* [c]	62-128%
	d5-EtFOSAA		0%* [c]	0%* [c]	57-135%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA48907
Account: SGSAKA SGS North America, Inc
Project: 1178562

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP67486-DUP	2Q8220.D	1	11/11/17	NG	11/03/17	OP67486	S2Q165
FA48763-25	2Q8219.D	1	11/11/17	NG	11/03/17	OP67486	S2Q165

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA48907-1, FA48907-2, FA48907-3

CAS No.	Compound	FA48763-25 ug/l	Q	DUP ug/l	Q	RPD	Limits
335-67-1	Perfluorooctanoic acid	0.017 U		ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.00733	J	ND		200*	30

CAS No.	Surrogate Recoveries	DUP	FA48763-25	Limits
	13C2-PFHxA	97%	101%	61-134%
	13C2-PFDA	110%	107%	62-128%
	d5-EtFOSAA		99%	57-135%

* = Outside of Control Limits.

Laboratory Report of Analysis

To: Shannon & Wilson-Fairbanks
2355 Hill Road
Fairbanks, AK 99709
(907)749-0600

Report Number: **1178572**

Client Project: **20056-007 Miller Salvage**

Dear Andrew Frick,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jennifer at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Jennifer Dawkins Date
Project Manager
Jennifer.Dawkins@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: Shannon & Wilson-Fairbanks

SGS Project: 1178572

Project Name/Site: 20056-007 Miller Salvage

Refer to sample receipt form for information on sample condition.

DB-2 **1178572002 PS**

AK102/103 - Surrogate recoveries for 5a-androstane (0%) and n-triacontane (0%) do not meet QC criteria due to sample dilution (4X) and with a final extraction volume of 5 mL.

FK-1 **1178572003 PS**

AK103 - Surrogate recovery for n-triacontane (0%) does not meet QC criteria due to sample dilution (4X) and with a final extraction volume of 5 mL.

AK102 - Surrogate recovery for 5a-androstane (0%) does not meet QC criteria due to sample dilution (20X) and a final extraction volume of 5 mL.

AK103 - The LOQ for RRO is elevated. The sample was diluted due to the dark color of the extract.

AK101 - Surrogate recovery for 4-bromofluorobenzene (1080%) does not meet QC criteria due to matrix interference.

8270D SIM - PAH surrogate recovery for 2-methylnaphthalene-d10 (416%) does not meet QC criteria due to sample dilution (4X) and matrix.

FK-11 **1178572004 PS**

AK102/103 - Surrogate recoveries for 5a-androstane (0%) and n-triacontane (0%) do not meet QC criteria due to sample dilution (4X) and with a final extraction volume of 5 mL.

AK101 - Surrogate recovery for 4-bromofluorobenzene (1310%) does not meet QC criteria due to matrix interference.

8270D SIM - PAH surrogate recovery for 2-methylnaphthalene-d10 (337%) does not meet QC criteria due to sample dilution (4X) and matrix.

FK-2 **1178572005 PS**

8260C - Surrogate recovery for toluene-d8 (208%) does not meet QC criteria. Sample was analyzed twice and results confirmed.

AK102 - Surrogate recovery for 5a-androstane (0%) does not meet QC criteria due to sample dilution (40X).

AK101 - Surrogate recovery for 4-bromofluorobenzene (8480%) does not meet QC criteria due to dilution (50X).

FK-3 **1178572006 PS**

AK101 - Surrogate recovery for 4-bromofluorobenzene (438%) does not meet QC criteria due to matrix interference.

NCHS-3 **1178572022 PS**

AK101 - Surrogate recovery for 4-bromofluorobenzene (47%) does not meet QC criteria. The sample was analyzed twice and results confirm.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to the associated field samples.

Case Narrative

SGS Client: Shannon & Wilson-Fairbanks

SGS Project: 1178572

Project Name/Site: 20056-007 Miller Salvage

NCHW-1 **1178572023 PS**

8260C - Surrogate recovery for 4-bromofluorobenzene (173%) does not meet QC criteria due to matrix.

AK101 - Surrogate recovery for 4-bromofluorobenzene (11200%) does not meet QC criteria due to dilution (100X).

NCHW-2 **1178572024 PS**

8260C - Surrogate recovery for 4-bromofluorobenzene (193%) does not meet QC criteria due to matrix.

AK101 - Surrogate recovery for 4-bromofluorobenzene (3590%) does not meet QC criteria due to dilution (100X).

NCHW-12 **1178572025 PS**

8260C - Surrogate recovery for 4-bromofluorobenzene (182%) does not meet QC criteria due to matrix.

AK101 - Surrogate recovery for 4-bromofluorobenzene (2410%) does not meet QC criteria due to dilution (100X).

NCHE-1 **1178572026 PS**

AK101 - Surrogate recovery for 4-bromofluorobenzene (38.5%) does not meet QC criteria due to dilution (25X).

NCHE-11 **1178572027 PS**

AK101 - Surrogate recovery for 4-bromofluorobenzene (0%) does not meet QC criteria due to dilution (1000X).

8260C - Elevated LOQ for several analytes due to matrix interference.

NCHE-2 **1178572028 PS**

AK101 - Surrogate recovery for 4-bromofluorobenzene (0%) does not meet QC criteria due to dilution (1000X).

8260C - Elevated LOQ for several analytes due to matrix interference.

NCHE-3 **1178572029 PS**

8260C - Elevated LOQ for several analytes due to matrix interference.

NCHE-4 **1178572030 PS**

8260C - Surrogate recovery for 4-bromofluorobenzene (152%) does not meet QC criteria due to matrix.

AK101 - Surrogate recovery for 4-bromofluorobenzene (43%) does not meet QC criteria. Sample was analyzed twice and results confirm.

8260C - Elevated LOQ for several analytes due to matrix interference.

Loader-1 **1178572033 PS**

AK103 - Surrogate recovery for n-triacontane (0%) does not meet QC criteria due to sample dilution (20X) and a final extraction volume of 5 mL.

8270D SIM - The PAH LOQs are elevated due to sample dilution (4X). The sample was analyzed at a dilution due to matrix.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to the associated field samples.

Case Narrative

SGS Client: Shannon & Wilson-Fairbanks

SGS Project: 1178572

Project Name/Site: 20056-007 Miller Salvage

1423481MS **1423484 MS**
6020A - Metals MS recovery for barium (136%) does not meet QC criteria. The post digestion spike was successful.

1423481MSD **1423485 MSD**
6020A - Metals MSD recovery for barium (153%) does not meet QC criteria. The post digestion spike was successful.

VXX/31660 **1423974 LCS**
8260C -LCS recovery for trichlorofluoromethane (161%) does not meet QC criteria. This analyte was not detected above the LOQ in the associated samples.

1178572001MS **1423975 MS**
8260C - MS recovery for trichlorofluoromethane (162%) does not meet QC criteria. This analyte was not detected above the LOQ in the parent sample.

1178572001MSD **1423976 MSD**
8260C - MSD recovery for trichlorofluoromethane (141%) does not meet QC criteria. This analyte was not detected above the LOQ in the parent sample.
8260C - MSD RPD for 1,2,3-trichlorobenzene (23.3%) does not meet QC criteria. This analyte was not detected above the LOQ in the parent sample.

1178572021MS **1423979 MS**
8260C - MS recoveries for methylene chloride (147%), and trans-1,2-dichloroethene (158%) do not meet QC criteria. These analytes were not detected above the LOQ in the parent sample.

1178572021MSD **1423980 MSD**
8260C - MSD recoveries trans-1,2-dichloroethene (173%), and methyl-t-butyl ether (147%) do not meet QC criteria. These analytes were not detected above the LOQ in the parent sample.
8260C - MSD RPD for naphthalene (22.5%), and 1,2,3-trichlorobenzene (173%) do not meet QC criteria. These analytes were not detected above the LOQ in the parent sample.

1424043MS **1424046 MS**
6020A - Metals MS recovery for lead (125%) does not meet QC criteria. The post digestion spike was successful.

1424043MSD **1424047 MSD**
6020A - Metals MS/MSD RPD for lead (22.1) does not meet QC criteria. Refer to sample duplicate for RPD requirements.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to the associated field samples.

Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
8270D SIM (PAH)				
1178572003	FK-1	XMS10557	Acenaphthene	BLC
1178572004	FK-11	XMS10557	Acenaphthene	BLC
SW8082A				
1424408	1178572006MS	XGC9948	Aroclor-1016	RP
1424409	1178572006MSD	XGC9948	Aroclor-1016	RP
SW8260C				
1178572002	DB-2	VMS17406	4-Isopropyltoluene	SP
1178572005	FK-2	VMS17406	4-Isopropyltoluene	SP
1178572006	FK-3	VMS17438	4-Isopropyltoluene	SP
1178572006	FK-3	VMS17438	Naphthalene	RP
1178572024	NCHW-2	VMS17407	4-Isopropyltoluene	SP
1178572026	NCHE-1	VMS17407	4-Isopropyltoluene	SP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

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The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
DB-1	1178572001	10/21/2017	10/31/2017	Soil/Solid (dry weight)
DB-2	1178572002	10/21/2017	10/31/2017	Soil/Solid (dry weight)
FK-1	1178572003	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-11	1178572004	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-2	1178572005	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-3	1178572006	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-4	1178572007	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-5	1178572008	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-6	1178572009	10/22/2017	10/31/2017	Soil/Solid (dry weight)
FK-7	1178572010	10/22/2017	10/31/2017	Soil/Solid (dry weight)
CW-1	1178572011	10/22/2017	10/31/2017	Soil/Solid (dry weight)
CW-2	1178572012	10/22/2017	10/31/2017	Soil/Solid (dry weight)
GC-1	1178572013	10/22/2017	10/31/2017	Soil/Solid (dry weight)
GC-2	1178572014	10/22/2017	10/31/2017	Soil/Solid (dry weight)
PYR-1	1178572015	10/22/2017	10/31/2017	Soil/Solid (dry weight)
PYR-2	1178572016	10/22/2017	10/31/2017	Soil/Solid (dry weight)
SF-1	1178572017	10/22/2017	10/31/2017	Soil/Solid (dry weight)
SF-2	1178572018	10/22/2017	10/31/2017	Soil/Solid (dry weight)
CE-1	1178572019	10/22/2017	10/31/2017	Soil/Solid (dry weight)
NCHS-1	1178572020	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHS-2	1178572021	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHS-3	1178572022	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHW-1	1178572023	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHW-2	1178572024	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHW-12	1178572025	10/23/2017	10/31/2017	Soil/Solid (dry weight)
NCHE-1	1178572026	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHE-11	1178572027	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHE-2	1178572028	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHE-3	1178572029	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHE-4	1178572030	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHN-1	1178572031	10/27/2017	10/31/2017	Soil/Solid (dry weight)
NCHN-2	1178572032	10/27/2017	10/31/2017	Soil/Solid (dry weight)
Loader-1	1178572033	10/27/2017	10/31/2017	Soil/Solid (dry weight)
Loader-2	1178572034	10/27/2017	10/31/2017	Soil/Solid (dry weight)
Trip Blank	1178572035	10/21/2017	10/31/2017	Soil/Solid (dry weight)
Trip Blank	1178572036	10/21/2017	10/31/2017	Soil/Solid (dry weight)
FK-8	1178572037	10/22/2017	11/02/2017	Soil/Solid (dry weight)

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix

Method	Method Description
8270D SIM (PAH)	8270 PAH SIM Semi-Volatiles GC/MS
AK103	Diesel/Residual Range Organics
AK102	Diesel/Residual Range Organics
AK101	Gasoline Range Organics (S)
SW6020A	Metals by ICP-MS (S)
SM21 2540G	Percent Solids SM2540G
SW8082A	SW8082 PCB's
SW8260C	VOC 8260 (S) Field Extracted

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Detectable Results Summary

Client Sample ID: **DB-1**
Lab Sample ID: 1178572001

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	14.7	mg/Kg
	Barium	136	mg/Kg
	Cadmium	0.192J	mg/Kg
	Chromium	26.6	mg/Kg
	Lead	11.4	mg/Kg
	Mercury	0.0477	mg/Kg
	Selenium	0.554J	mg/Kg
	Silver	0.0836J	mg/Kg
Polynuclear Aromatics GC/MS	Pyrene	0.0107J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	278	mg/Kg
	Residual Range Organics	938	mg/Kg
Volatile Fuels	Gasoline Range Organics	4.85	mg/Kg
Volatile GC/MS	Tetrachloroethene	0.0633	mg/Kg
	Toluene	0.199	mg/Kg

Client Sample ID: **DB-2**
Lab Sample ID: 1178572002

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	11.7	mg/Kg
	Barium	148	mg/Kg
	Cadmium	0.188J	mg/Kg
	Chromium	26.5	mg/Kg
	Lead	12.0	mg/Kg
	Mercury	0.0350J	mg/Kg
	Selenium	0.563J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	1130	mg/Kg
	Residual Range Organics	1300	mg/Kg
Volatile Fuels	Gasoline Range Organics	3.97	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	1.59	mg/Kg
	1,3,5-Trimethylbenzene	0.502	mg/Kg
	4-Isopropyltoluene	0.0310	mg/Kg
	Isopropylbenzene (Cumene)	0.0247J	mg/Kg
	Naphthalene	0.0196J	mg/Kg
	n-Propylbenzene	0.169	mg/Kg
	o-Xylene	0.0417	mg/Kg
	P & M -Xylene	0.0412J	mg/Kg
	sec-Butylbenzene	0.0292	mg/Kg
	Tetrachloroethene	0.0332	mg/Kg
	Toluene	0.0605	mg/Kg
	Xylenes (total)	0.0829J	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-1**
Lab Sample ID: 1178572003

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	7.12	mg/Kg
	Barium	169	mg/Kg
	Cadmium	0.282	mg/Kg
	Chromium	29.3	mg/Kg
	Lead	11.2	mg/Kg
	Mercury	0.0294J	mg/Kg
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	10.9	mg/Kg
	2-Methylnaphthalene	1.10	mg/Kg
	Acenaphthene	0.562	mg/Kg
	Fluorene	0.490	mg/Kg
	Phenanthrene	0.0823J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	17100	mg/Kg
	Residual Range Organics	345J	mg/Kg
Volatile Fuels	Gasoline Range Organics	139	mg/Kg
Volatile GC/MS	1,3,5-Trimethylbenzene	4.56	mg/Kg
	4-Isopropyltoluene	2.30	mg/Kg
	o-Xylene	0.855	mg/Kg
	sec-Butylbenzene	0.0434	mg/Kg
	tert-Butylbenzene	0.157	mg/Kg
	Toluene	0.0315J	mg/Kg
	Xylenes (total)	0.855	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-11**
Lab Sample ID: 1178572004

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	7.20	mg/Kg
	Barium	156	mg/Kg
	Cadmium	0.171J	mg/Kg
	Chromium	39.7	mg/Kg
	Lead	98.2	mg/Kg
	Mercury	0.0409J	mg/Kg
	Selenium	0.503J	mg/Kg
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	9.16	mg/Kg
	2-Methylnaphthalene	0.824	mg/Kg
	Acenaphthene	0.473	mg/Kg
	Fluorene	0.394	mg/Kg
	Phenanthrene	0.0645J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	15400	mg/Kg
	Residual Range Organics	312J	mg/Kg
Volatile Fuels	Gasoline Range Organics	194	mg/Kg
Volatile GC/MS	1,3,5-Trimethylbenzene	6.87	mg/Kg
	4-Isopropyltoluene	3.83	mg/Kg
	Benzene	0.0294	mg/Kg
	o-Xylene	1.25	mg/Kg
	sec-Butylbenzene	0.101	mg/Kg
	tert-Butylbenzene	0.251	mg/Kg
	Toluene	0.360	mg/Kg
	Xylenes (total)	1.25	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-2**
Lab Sample ID: 1178572005

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	11.9	mg/Kg
	Barium	169	mg/Kg
	Cadmium	0.138J	mg/Kg
	Chromium	29.6	mg/Kg
	Lead	11.7	mg/Kg
	Mercury	0.0481J	mg/Kg
	Selenium	0.732J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	7520	mg/Kg
	Residual Range Organics	518	mg/Kg
Volatile Fuels	Gasoline Range Organics	3610	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	76.7	mg/Kg
	1,3,5-Trimethylbenzene	50.8	mg/Kg
	4-Isopropyltoluene	4.87	mg/Kg
	Benzene	10.1	mg/Kg
	Ethylbenzene	18.9	mg/Kg
	Isopropylbenzene (Cumene)	18.3	mg/Kg
	Naphthalene	14.3	mg/Kg
	n-Propylbenzene	12.7	mg/Kg
	o-Xylene	163	mg/Kg
	P & M -Xylene	106	mg/Kg
	sec-Butylbenzene	13.7	mg/Kg
	tert-Butylbenzene	1.27	mg/Kg
	Toluene	82.0	mg/Kg
	Xylenes (total)	269	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-3**
Lab Sample ID: 1178572006

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	13.2	mg/Kg
	Barium	117	mg/Kg
	Cadmium	0.110J	mg/Kg
	Chromium	24.5	mg/Kg
	Lead	9.37	mg/Kg
	Mercury	0.0242J	mg/Kg
	Selenium	0.382J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	1830	mg/Kg
	Residual Range Organics	424	mg/Kg
Volatile Fuels	Gasoline Range Organics	41.9	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	0.729	mg/Kg
	1,3,5-Trimethylbenzene	0.333	mg/Kg
	4-Isopropyltoluene	0.107	mg/Kg
	Ethylbenzene	0.0676	mg/Kg
	Isopropylbenzene (Cumene)	0.0838	mg/Kg
	Naphthalene	0.212	mg/Kg
	n-Propylbenzene	0.113	mg/Kg
	o-Xylene	0.300	mg/Kg
	P & M -Xylene	0.279	mg/Kg
	sec-Butylbenzene	0.104	mg/Kg
	Toluene	0.373	mg/Kg
	Xylenes (total)	0.579	mg/Kg

Client Sample ID: **FK-4**
Lab Sample ID: 1178572007

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	10.3	mg/Kg
	Barium	176	mg/Kg
	Cadmium	0.313	mg/Kg
	Chromium	31.5	mg/Kg
	Lead	14.5	mg/Kg
	Mercury	0.0386J	mg/Kg
	Selenium	0.622J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	74.9	mg/Kg
	Residual Range Organics	177	mg/Kg
Volatile Fuels	Gasoline Range Organics	3.45	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	0.0775	mg/Kg
	1,3,5-Trimethylbenzene	0.0781	mg/Kg
	4-Isopropyltoluene	0.0352	mg/Kg
	o-Xylene	0.123	mg/Kg
	P & M -Xylene	0.0451J	mg/Kg
	Toluene	0.0591	mg/Kg
	Xylenes (total)	0.168	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-5**
Lab Sample ID: 1178572008

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	9.78	mg/Kg
	Barium	157	mg/Kg
	Cadmium	0.216J	mg/Kg
	Chromium	26.5	mg/Kg
	Lead	11.3	mg/Kg
	Mercury	0.0254J	mg/Kg
	Selenium	0.767J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	28.7	mg/Kg
	Residual Range Organics	163	mg/Kg
Volatile Fuels	Gasoline Range Organics	2.72J	mg/Kg
Volatile GC/MS	Benzene	0.00982J	mg/Kg
	o-Xylene	0.0261J	mg/Kg
	Toluene	0.161	mg/Kg

Client Sample ID: **FK-6**
Lab Sample ID: 1178572009

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	9.67	mg/Kg
	Barium	166	mg/Kg
	Cadmium	0.227J	mg/Kg
	Chromium	28.1	mg/Kg
	Lead	13.7	mg/Kg
	Mercury	0.0254J	mg/Kg
	Selenium	0.526J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	26.3	mg/Kg
	Residual Range Organics	182	mg/Kg
Volatile GC/MS	Toluene	0.174	mg/Kg

Client Sample ID: **FK-7**
Lab Sample ID: 1178572010

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	14.0	mg/Kg
	Barium	218	mg/Kg
	Cadmium	0.150J	mg/Kg
	Chromium	38.8	mg/Kg
	Lead	13.9	mg/Kg
	Mercury	0.0502	mg/Kg
	Selenium	0.796J	mg/Kg
	Silver	0.0804J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	36.5	mg/Kg
	Residual Range Organics	262	mg/Kg

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Detectable Results Summary

Client Sample ID: **CW-1**
Lab Sample ID: 1178572011

	Parameter	Result	Units
Polychlorinated Biphenyls	Aroclor-1260	0.291	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	48.2	mg/Kg
	Residual Range Organics	250	mg/Kg
Volatile Fuels	Gasoline Range Organics	1.59J	mg/Kg
Volatile GC/MS	Benzene	0.00805J	mg/Kg
	Toluene	0.359	mg/Kg

Client Sample ID: **CW-2**
Lab Sample ID: 1178572012

	Parameter	Result	Units
Polychlorinated Biphenyls	Aroclor-1260	0.266	mg/Kg

Client Sample ID: **GC-1**
Lab Sample ID: 1178572013

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	26.0	mg/Kg
Volatile Fuels	Gasoline Range Organics	0.901J	mg/Kg
Volatile GC/MS	Benzene	0.00417J	mg/Kg
	Toluene	0.215	mg/Kg

Client Sample ID: **GC-2**
Lab Sample ID: 1178572014

	Parameter	Result	Units
Semivolatile Organic Fuels	Residual Range Organics	18.3J	mg/Kg
Volatile GC/MS	Toluene	0.0646	mg/Kg

Client Sample ID: **PYR-1**
Lab Sample ID: 1178572015

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	88.6	mg/Kg
	Residual Range Organics	1170	mg/Kg
Volatile Fuels	Gasoline Range Organics	1.09J	mg/Kg
Volatile GC/MS	Benzene	0.00498J	mg/Kg
	Toluene	0.167	mg/Kg

Client Sample ID: **PYR-2**
Lab Sample ID: 1178572016

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	8.15J	mg/Kg
	Residual Range Organics	72.1	mg/Kg
Volatile GC/MS	Benzene	0.00246J	mg/Kg
	Toluene	0.0549	mg/Kg

Client Sample ID: **SF-1**
Lab Sample ID: 1178572017

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	14.3J	mg/Kg
	Residual Range Organics	76.1	mg/Kg
Volatile Fuels	Gasoline Range Organics	0.624J	mg/Kg
Volatile GC/MS	Toluene	0.0989	mg/Kg

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Detectable Results Summary

Client Sample ID: **SF-2**
Lab Sample ID: 1178572018

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	31.8	mg/Kg
	Residual Range Organics	227	mg/Kg
Volatile Fuels	Gasoline Range Organics	2.11J	mg/Kg
Volatile GC/MS	Toluene	0.183	mg/Kg

Client Sample ID: **CE-1**
Lab Sample ID: 1178572019

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	12.8J	mg/Kg
	Residual Range Organics	80.6	mg/Kg

Client Sample ID: **NCHS-1**
Lab Sample ID: 1178572020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	544	mg/Kg
	Residual Range Organics	994	mg/Kg
Volatile Fuels	Gasoline Range Organics	2.07J	mg/Kg
Volatile GC/MS	Benzene	0.0476	mg/Kg
	Ethylbenzene	0.0236J	mg/Kg
	o-Xylene	0.0289J	mg/Kg
	P & M -Xylene	0.0870	mg/Kg
	Toluene	1.23	mg/Kg
	Xylenes (total)	0.116J	mg/Kg

Client Sample ID: **NCHS-2**
Lab Sample ID: 1178572021

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	234	mg/Kg
	Residual Range Organics	362	mg/Kg
Volatile Fuels	Gasoline Range Organics	1.19J	mg/Kg
Volatile GC/MS	Benzene	0.0211	mg/Kg
	o-Xylene	0.0136J	mg/Kg
	P & M -Xylene	0.0375J	mg/Kg
	Toluene	0.356	mg/Kg
	Xylenes (total)	0.0511J	mg/Kg

Client Sample ID: **NCHS-3**
Lab Sample ID: 1178572022

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	166	mg/Kg
	Residual Range Organics	558	mg/Kg
Volatile GC/MS	Benzene	0.00933J	mg/Kg
	Toluene	0.186	mg/Kg

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Detectable Results Summary

Client Sample ID: **NCHW-1**
Lab Sample ID: 1178572023

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.362	mg/Kg
	2-Methylnaphthalene	0.555	mg/Kg
	Acenaphthene	0.0122J	mg/Kg
	Fluorene	0.0788	mg/Kg
	Naphthalene	2.89	mg/Kg
	Phenanthrene	0.0926	mg/Kg
	Pyrene	0.0174J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	1240	mg/Kg
	Residual Range Organics	1200	mg/Kg
Volatile Fuels	Gasoline Range Organics	6690	mg/Kg
Volatile GC/MS	1,1,1-Trichloroethane	0.0320J	mg/Kg
	1,2,4-Trimethylbenzene	186	mg/Kg
	1,3,5-Trimethylbenzene	65.1	mg/Kg
	4-Isopropyltoluene	19.5	mg/Kg
	Benzene	16.9	mg/Kg
	Ethylbenzene	242	mg/Kg
	Isopropylbenzene (Cumene)	37.6	mg/Kg
	Naphthalene	2.44	mg/Kg
	n-Propylbenzene	66.7	mg/Kg
	o-Xylene	379	mg/Kg
	P & M -Xylene	822	mg/Kg
	sec-Butylbenzene	9.92	mg/Kg
	tert-Butylbenzene	1.09	mg/Kg
	Toluene	1060	mg/Kg
	Xylenes (total)	1200	mg/Kg

Client Sample ID: **NCHW-2**
Lab Sample ID: 1178572024

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	86.2	mg/Kg
	Residual Range Organics	135	mg/Kg
Volatile Fuels	Gasoline Range Organics	2090	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	133	mg/Kg
	1,3,5-Trimethylbenzene	46.3	mg/Kg
	4-Isopropyltoluene	5.05	mg/Kg
	Benzene	2.56	mg/Kg
	Ethylbenzene	48.7	mg/Kg
	Isopropylbenzene (Cumene)	16.2	mg/Kg
	Naphthalene	1.19	mg/Kg
	n-Propylbenzene	29.3	mg/Kg
	o-Xylene	183	mg/Kg
	P & M -Xylene	380	mg/Kg
	sec-Butylbenzene	6.86	mg/Kg
	tert-Butylbenzene	0.781	mg/Kg
	Xylenes (total)	563	mg/Kg

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Detectable Results Summary

Client Sample ID: **NCHW-12**
Lab Sample ID: 1178572025

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	204	mg/Kg
	Residual Range Organics	115	mg/Kg
Volatile Fuels	Gasoline Range Organics	1170	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	65.6	mg/Kg
	1,3,5-Trimethylbenzene	24.1	mg/Kg
	4-Isopropyltoluene	7.98	mg/Kg
	Benzene	1.80	mg/Kg
	Ethylbenzene	30.3	mg/Kg
	Isopropylbenzene (Cumene)	9.58	mg/Kg
	Naphthalene	0.668	mg/Kg
	n-Propylbenzene	16.5	mg/Kg
	o-Xylene	102	mg/Kg
	P & M -Xylene	224	mg/Kg
	sec-Butylbenzene	4.91	mg/Kg
	tert-Butylbenzene	0.384	mg/Kg
	Toluene	160	mg/Kg
	Xylenes (total)	326	mg/Kg

Client Sample ID: **NCHE-1**
Lab Sample ID: 1178572026

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0216J	mg/Kg
	2-Methylnaphthalene	0.0356	mg/Kg
	Naphthalene	0.0260	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	444	mg/Kg
	Residual Range Organics	2220	mg/Kg
Volatile Fuels	Gasoline Range Organics	631	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	0.378	mg/Kg
	1,3,5-Trimethylbenzene	0.142	mg/Kg
	2-Butanone (MEK)	0.134J	mg/Kg
	4-Isopropyltoluene	0.0251J	mg/Kg
	Benzene	0.338	mg/Kg
	Naphthalene	0.0264J	mg/Kg
	n-Propylbenzene	0.105	mg/Kg
	sec-Butylbenzene	0.0360	mg/Kg
	Toluene	3830	mg/Kg
	Trichloroethene	0.0235	mg/Kg

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Detectable Results Summary

Client Sample ID: **NCHE-11**
Lab Sample ID: 1178572027

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0123J	mg/Kg
	2-Methylnaphthalene	0.0198J	mg/Kg
	Naphthalene	0.0152J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	269	mg/Kg
	Residual Range Organics	1240	mg/Kg
Volatile Fuels	Gasoline Range Organics	6810	mg/Kg
Volatile GC/MS	1,1,1-Trichloroethane	0.0121J	mg/Kg
	1,2,4-Trimethylbenzene	0.115	mg/Kg
	1,3,5-Trimethylbenzene	0.0404	mg/Kg
	2-Butanone (MEK)	0.127J	mg/Kg
	Benzene	0.670	mg/Kg
	n-Propylbenzene	0.0316J	mg/Kg
	Toluene	5780	mg/Kg

Client Sample ID: **NCHE-2**
Lab Sample ID: 1178572028

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	249	mg/Kg
	Residual Range Organics	3120	mg/Kg
Volatile Fuels	Gasoline Range Organics	9720	mg/Kg
Volatile GC/MS	1,1,1-Trichloroethane	0.0267J	mg/Kg
	1,2,4-Trimethylbenzene	0.0845	mg/Kg
	1,3,5-Trimethylbenzene	0.0298J	mg/Kg
	2-Butanone (MEK)	0.172J	mg/Kg
	Benzene	1.22	mg/Kg
	Toluene	5250	mg/Kg

Client Sample ID: **NCHE-3**
Lab Sample ID: 1178572029

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	130	mg/Kg
	Residual Range Organics	545	mg/Kg
Volatile Fuels	Gasoline Range Organics	37.5	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	0.0461J	mg/Kg
	1,3,5-Trimethylbenzene	0.0177J	mg/Kg
	Benzene	0.00479J	mg/Kg
	Toluene	19.9	mg/Kg

Client Sample ID: **NCHE-4**
Lab Sample ID: 1178572030

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	22.2J	mg/Kg
	Residual Range Organics	155	mg/Kg
Volatile Fuels	Gasoline Range Organics	12.4	mg/Kg
Volatile GC/MS	1,2,4-Trimethylbenzene	0.0192J	mg/Kg
	Benzene	0.0157	mg/Kg
	Toluene	34.6	mg/Kg

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Detectable Results Summary

Client Sample ID: **NCHN-1**
Lab Sample ID: 1178572031

Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	100	mg/Kg
Residual Range Organics	1010	mg/Kg
Toluene	0.173	mg/Kg

Client Sample ID: **NCHN-2**
Lab Sample ID: 1178572032

Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	36.3	mg/Kg
Residual Range Organics	306	mg/Kg
Benzene	0.0176J	mg/Kg
Ethylbenzene	0.0168J	mg/Kg
o-Xylene	0.0200J	mg/Kg
P & M -Xylene	0.0596J	mg/Kg
Toluene	0.641	mg/Kg
Xylenes (total)	0.0796J	mg/Kg

Client Sample ID: **Loader-1**
Lab Sample ID: 1178572033

Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	2690	mg/Kg
Residual Range Organics	11300	mg/Kg
Toluene	0.142	mg/Kg
Trichlorofluoromethane	0.0419J	mg/Kg

Client Sample ID: **Loader-2**
Lab Sample ID: 1178572034

Semivolatile Organic Fuels

Volatile GC/MS

Parameter	Result	Units
Diesel Range Organics	76.7	mg/Kg
Residual Range Organics	383	mg/Kg
Benzene	0.00859J	mg/Kg
Toluene	0.325	mg/Kg

Client Sample ID: **Trip Blank**
Lab Sample ID: 1178572035

Volatile GC/MS

Parameter	Result	Units
4-Isopropyltoluene	0.0132J	mg/Kg
Toluene	0.0282	mg/Kg

Client Sample ID: **Trip Blank**
Lab Sample ID: 1178572036

Volatile Fuels
Volatile GC/MS

Parameter	Result	Units
Gasoline Range Organics	0.853J	mg/Kg
4-Isopropyltoluene	0.0413	mg/Kg
Benzene	0.0204	mg/Kg
Ethylbenzene	0.0129J	mg/Kg
o-Xylene	0.0159J	mg/Kg
P & M -Xylene	0.0476J	mg/Kg
Toluene	0.468	mg/Kg
Xylenes (total)	0.0635J	mg/Kg

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Detectable Results Summary

Client Sample ID: **FK-8**
Lab Sample ID: 1178572037

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	9.00	mg/Kg
	Barium	162	mg/Kg
	Cadmium	0.162J	mg/Kg
	Chromium	24.0	mg/Kg
	Lead	21.4	mg/Kg
	Mercury	0.0779	mg/Kg
	Selenium	0.380J	mg/Kg
Semivolatile Organic Fuels	Diesel Range Organics	59.5	mg/Kg
	Residual Range Organics	307	mg/Kg

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Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	14.7		1.19	0.370	mg/Kg	10		11/02/17 18:07
Barium	136		0.358	0.112	mg/Kg	10		11/02/17 18:07
Cadmium	0.192	J	0.238	0.0739	mg/Kg	10		11/02/17 18:07
Chromium	26.6		0.477	0.155	mg/Kg	10		11/02/17 18:07
Lead	11.4		0.238	0.0739	mg/Kg	10		11/02/17 18:07
Mercury	0.0477		0.0477	0.0143	mg/Kg	10		11/02/17 18:07
Selenium	0.554	J	1.19	0.370	mg/Kg	10		11/02/17 18:07
Silver	0.0836	J	0.238	0.0739	mg/Kg	10		11/02/17 18:07

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 18:07
Container ID: 1178572001-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Aroclor-1221	0.119	U	0.238	0.0738	mg/Kg	1		11/08/17 10:44
Aroclor-1232	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Aroclor-1242	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Aroclor-1248	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Aroclor-1254	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Aroclor-1260	0.0297	U	0.0595	0.0179	mg/Kg	1		11/08/17 10:44
Surrogates								
Decachlorobiphenyl (surr)	121		60-125		%	1		11/08/17 10:44

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 10:44
Container ID: 1178572001-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.537 g
Prep Extract Vol: 5 mL

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Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
2-Methylnaphthalene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Acenaphthene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Acenaphthylene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Anthracene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Benzo(a)Anthracene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Benzo[a]pyrene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Benzo[b]Fluoranthene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Benzo[g,h,i]perylene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Benzo[k]fluoranthene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Chrysene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Dibenzo[a,h]anthracene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Fluoranthene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Fluorene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Indeno[1,2,3-c,d] pyrene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Naphthalene	0.0118	U	0.0235	0.00706	mg/Kg	1		11/18/17 20:33
Phenanthrene	0.0147	U	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Pyrene	0.0107	J	0.0294	0.00882	mg/Kg	1		11/18/17 20:33
Surrogates								
2-Methylnaphthalene-d10 (surr)	88.6		50-150		%	1		11/18/17 20:33
Fluoranthene-d10 (surr)	71.9		50-150		%	1		11/18/17 20:33

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 20:33
Container ID: 1178572001-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.798 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	278		94.9	29.4	mg/Kg	4		11/04/17 20:10
Surrogates								
5a Androstane (surr)	85.6		50-150		%	4		11/04/17 20:10

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 20:10
Container ID: 1178572001-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.136 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	938		94.9	29.4	mg/Kg	4		11/04/17 20:10
Surrogates								
n-Triacontane-d62 (surr)	78.7		50-150		%	4		11/04/17 20:10

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:10
Container ID: 1178572001-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.136 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	4.85		3.25	0.974	mg/Kg	1		11/07/17 16:24
Surrogates								
4-Bromofluorobenzene (surr)	77.6		50-150		%	1		11/07/17 16:24

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 16:24
Container ID: 1178572001-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 65.241 g
Prep Extract Vol: 35.5183 mL

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0130	U	0.0260	0.00805	mg/Kg	1		11/01/17 17:34
1,1,1-Trichloroethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,1,2,2-Tetrachloroethane	0.00810	U	0.0162	0.00506	mg/Kg	1		11/01/17 17:34
1,1,2-Trichloroethane	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
1,1-Dichloroethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,1-Dichloroethene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,1-Dichloropropene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,2,3-Trichlorobenzene	0.0325	U	0.0649	0.0195	mg/Kg	1		11/01/17 17:34
1,2,3-Trichloropropane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,2,4-Trichlorobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,2,4-Trimethylbenzene	0.0325	U	0.0649	0.0195	mg/Kg	1		11/01/17 17:34
1,2-Dibromo-3-chloropropane	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
1,2-Dibromoethane	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
1,2-Dichlorobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,2-Dichloroethane	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
1,2-Dichloropropane	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
1,3,5-Trimethylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,3-Dichlorobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
1,3-Dichloropropane	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
1,4-Dichlorobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
2,2-Dichloropropane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
2-Butanone (MEK)	0.163	U	0.325	0.101	mg/Kg	1		11/01/17 17:34
2-Chlorotoluene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
2-Hexanone	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
4-Chlorotoluene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
4-Isopropyltoluene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
4-Methyl-2-pentanone (MIBK)	0.163	U	0.325	0.101	mg/Kg	1		11/01/17 17:34
Benzene	0.00810	U	0.0162	0.00506	mg/Kg	1		11/01/17 17:34
Bromobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Bromochloromethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Bromodichloromethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Bromoform	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Bromomethane	0.130	U	0.260	0.0805	mg/Kg	1		11/01/17 17:34
Carbon disulfide	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
Carbon tetrachloride	0.00810	U	0.0162	0.00506	mg/Kg	1		11/01/17 17:34
Chlorobenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Chloroethane	0.130	U	0.260	0.0805	mg/Kg	1		11/01/17 17:34

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Chloromethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
cis-1,2-Dichloroethene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
cis-1,3-Dichloropropene	0.00810	U	0.0162	0.00506	mg/Kg	1		11/01/17 17:34
Dibromochloromethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Dibromomethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Dichlorodifluoromethane	0.0325	U	0.0649	0.0195	mg/Kg	1		11/01/17 17:34
Ethylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Freon-113	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
Hexachlorobutadiene	0.0130	U	0.0260	0.00805	mg/Kg	1		11/01/17 17:34
Isopropylbenzene (Cumene)	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Methylene chloride	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
Methyl-t-butyl ether	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
Naphthalene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
n-Butylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
n-Propylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
o-Xylene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
P & M -Xylene	0.0325	U	0.0649	0.0195	mg/Kg	1		11/01/17 17:34
sec-Butylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Styrene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
tert-Butylbenzene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
Tetrachloroethene	0.0633		0.0162	0.00506	mg/Kg	1		11/01/17 17:34
Toluene	0.199		0.0325	0.0101	mg/Kg	1		11/01/17 17:34
trans-1,2-Dichloroethene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 17:34
trans-1,3-Dichloropropene	0.00810	U	0.0162	0.00506	mg/Kg	1		11/01/17 17:34
Trichloroethene	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
Trichlorofluoromethane	0.0325	U	0.0649	0.0195	mg/Kg	1		11/01/17 17:34
Vinyl acetate	0.0650	U	0.130	0.0402	mg/Kg	1		11/01/17 17:34
Vinyl chloride	0.00650	U	0.0130	0.00402	mg/Kg	1		11/01/17 17:34
Xylenes (total)	0.0487	U	0.0974	0.0296	mg/Kg	1		11/01/17 17:34
Surrogates								
1,2-Dichloroethane-D4 (surr)	100		71-136		%	1		11/01/17 17:34
4-Bromofluorobenzene (surr)	111		55-151		%	1		11/01/17 17:34
Toluene-d8 (surr)	99.7		85-116		%	1		11/01/17 17:34

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-1**

Client Sample ID: **DB-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572001
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:34
Container ID: 1178572001-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 65.241 g
Prep Extract Vol: 35.5183 mL

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	11.7		1.13	0.350	mg/Kg	10		11/02/17 18:29
Barium	148		0.339	0.106	mg/Kg	10		11/02/17 18:29
Cadmium	0.188	J	0.226	0.0701	mg/Kg	10		11/02/17 18:29
Chromium	26.5		0.452	0.147	mg/Kg	10		11/02/17 18:29
Lead	12.0		0.226	0.0701	mg/Kg	10		11/02/17 18:29
Mercury	0.0350	J	0.0452	0.0136	mg/Kg	10		11/02/17 18:29
Selenium	0.563	J	1.13	0.350	mg/Kg	10		11/02/17 18:29
Silver	0.113	U	0.226	0.0701	mg/Kg	10		11/02/17 18:29

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 18:29
Container ID: 1178572002-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.074 g
Prep Extract Vol: 50 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Aroclor-1221	0.121	U	0.241	0.0746	mg/Kg	1		11/08/17 10:58
Aroclor-1232	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Aroclor-1242	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Aroclor-1248	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Aroclor-1254	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Aroclor-1260	0.0301	U	0.0602	0.0180	mg/Kg	1		11/08/17 10:58
Surrogates								
Decachlorobiphenyl (surr)	119		60-125		%	1		11/08/17 10:58

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 10:58
Container ID: 1178572002-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.703 g
Prep Extract Vol: 5 mL

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1130		485	150	mg/Kg	4		11/04/17 20:19
Surrogates								
5a Androstane (surr)	0	*	50-150		%	4		11/04/17 20:19

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 20:19
Container ID: 1178572002-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.029 g
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1300		485	150	mg/Kg	4		11/04/17 20:19
Surrogates								
n-Triacontane-d62 (surr)	0	*	50-150		%	4		11/04/17 20:19

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:19
Container ID: 1178572002-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.029 g
Prep Extract Vol: 5 mL

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	3.97		2.84	0.852	mg/Kg	1		11/07/17 02:36
Surrogates								
4-Bromofluorobenzene (surr)	95.5		50-150		%	1		11/07/17 02:36

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 02:36
Container ID: 1178572002-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:10
Prep Initial Wt./Vol.: 85.733 g
Prep Extract Vol: 40.1085 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0114	U	0.0227	0.00704	mg/Kg	1		11/01/17 17:51
1,1,1-Trichloroethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,1,2,2-Tetrachloroethane	0.00710	U	0.0142	0.00443	mg/Kg	1		11/01/17 17:51
1,1,2-Trichloroethane	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
1,1-Dichloroethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,1-Dichloroethene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,1-Dichloropropene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,2,3-Trichlorobenzene	0.0284	U	0.0568	0.0170	mg/Kg	1		11/01/17 17:51
1,2,3-Trichloropropane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,2,4-Trichlorobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,2,4-Trimethylbenzene	1.59		0.0568	0.0170	mg/Kg	1		11/01/17 17:51
1,2-Dibromo-3-chloropropane	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
1,2-Dibromoethane	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
1,2-Dichlorobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,2-Dichloroethane	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
1,2-Dichloropropane	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
1,3,5-Trimethylbenzene	0.502		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,3-Dichlorobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
1,3-Dichloropropane	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
1,4-Dichlorobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
2,2-Dichloropropane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
2-Butanone (MEK)	0.142	U	0.284	0.0886	mg/Kg	1		11/01/17 17:51
2-Chlorotoluene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
2-Hexanone	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
4-Chlorotoluene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
4-Isopropyltoluene	0.0310		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
4-Methyl-2-pentanone (MIBK)	0.142	U	0.284	0.0886	mg/Kg	1		11/01/17 17:51
Benzene	0.00710	U	0.0142	0.00443	mg/Kg	1		11/01/17 17:51
Bromobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Bromochloromethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Bromodichloromethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Bromoform	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Bromomethane	0.114	U	0.227	0.0704	mg/Kg	1		11/01/17 17:51
Carbon disulfide	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
Carbon tetrachloride	0.00710	U	0.0142	0.00443	mg/Kg	1		11/01/17 17:51
Chlorobenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Chloroethane	0.114	U	0.227	0.0704	mg/Kg	1		11/01/17 17:51

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Chloromethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
cis-1,2-Dichloroethene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
cis-1,3-Dichloropropene	0.00710	U	0.0142	0.00443	mg/Kg	1		11/01/17 17:51
Dibromochloromethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Dibromomethane	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Dichlorodifluoromethane	0.0284	U	0.0568	0.0170	mg/Kg	1		11/01/17 17:51
Ethylbenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Freon-113	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
Hexachlorobutadiene	0.0114	U	0.0227	0.00704	mg/Kg	1		11/01/17 17:51
Isopropylbenzene (Cumene)	0.0247	J	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Methylene chloride	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
Methyl-t-butyl ether	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
Naphthalene	0.0196	J	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
n-Butylbenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
n-Propylbenzene	0.169		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
o-Xylene	0.0417		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
P & M -Xylene	0.0412	J	0.0568	0.0170	mg/Kg	1		11/01/17 17:51
sec-Butylbenzene	0.0292		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Styrene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
tert-Butylbenzene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
Tetrachloroethene	0.0332		0.0142	0.00443	mg/Kg	1		11/01/17 17:51
Toluene	0.0605		0.0284	0.00886	mg/Kg	1		11/01/17 17:51
trans-1,2-Dichloroethene	0.0142	U	0.0284	0.00886	mg/Kg	1		11/01/17 17:51
trans-1,3-Dichloropropene	0.00710	U	0.0142	0.00443	mg/Kg	1		11/01/17 17:51
Trichloroethene	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
Trichlorofluoromethane	0.0284	U	0.0568	0.0170	mg/Kg	1		11/01/17 17:51
Vinyl acetate	0.0570	U	0.114	0.0352	mg/Kg	1		11/01/17 17:51
Vinyl chloride	0.00570	U	0.0114	0.00352	mg/Kg	1		11/01/17 17:51
Xylenes (total)	0.0829	J	0.0852	0.0259	mg/Kg	1		11/01/17 17:51
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		71-136		%	1		11/01/17 17:51
4-Bromofluorobenzene (surr)	100		55-151		%	1		11/01/17 17:51
Toluene-d8 (surr)	100		85-116		%	1		11/01/17 17:51

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **DB-2**

Client Sample ID: **DB-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572002
Lab Project ID: 1178572

Collection Date: 10/21/17 12:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:51
Container ID: 1178572002-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:10
Prep Initial Wt./Vol.: 85.733 g
Prep Extract Vol: 40.1085 mL

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	7.12		1.28	0.397	mg/Kg	10		11/02/17 18:34
Barium	169		0.384	0.120	mg/Kg	10		11/02/17 18:34
Cadmium	0.282		0.256	0.0794	mg/Kg	10		11/02/17 18:34
Chromium	29.3		0.512	0.166	mg/Kg	10		11/02/17 18:34
Lead	11.2		0.256	0.0794	mg/Kg	10		11/02/17 18:34
Mercury	0.0294	J	0.0512	0.0154	mg/Kg	10		11/02/17 18:34
Selenium	0.640	U	1.28	0.397	mg/Kg	10		11/02/17 18:34
Silver	0.128	U	0.256	0.0794	mg/Kg	10		11/02/17 18:34

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 18:34
Container ID: 1178572003-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Aroclor-1221	0.127	U	0.254	0.0787	mg/Kg	1		11/08/17 11:13
Aroclor-1232	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Aroclor-1242	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Aroclor-1248	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Aroclor-1254	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Aroclor-1260	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:13
Surrogates								
Decachlorobiphenyl (surr)	117		60-125		%	1		11/08/17 11:13

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 11:13
Container ID: 1178572003-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.692 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	10.9		2.56	0.767	mg/Kg	80		11/22/17 02:42
2-Methylnaphthalene	1.10		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Acenaphthene	0.562		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Acenaphthylene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Anthracene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Benzo(a)Anthracene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Benzo[a]pyrene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Benzo[b]Fluoranthene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Benzo[g,h,i]perylene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Benzo[k]fluoranthene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Chrysene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Dibenzo[a,h]anthracene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Fluoranthene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Fluorene	0.490		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Indeno[1,2,3-c,d] pyrene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Naphthalene	0.0510 U		0.102	0.0307	mg/Kg	4		11/18/17 20:53
Phenanthrene	0.0823 J		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Pyrene	0.0640 U		0.128	0.0383	mg/Kg	4		11/18/17 20:53
Surrogates								
2-Methylnaphthalene-d10 (surr)	416	*	50-150		%	4		11/18/17 20:53
Fluoranthene-d10 (surr)	75.2		50-150		%	4		11/18/17 20:53

Batch Information

Analytical Batch: XMS10554
Analytical Method: 8270D SIM (PAH)
Analyst: NRB
Analytical Date/Time: 11/22/17 02:42
Container ID: 1178572003-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.55 g
Prep Extract Vol: 5 mL

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 20:53
Container ID: 1178572003-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.55 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17100		2540	786	mg/Kg	20		11/07/17 13:45
Surrogates								
5a Androstane (surr)	0	*	50-150		%	20		11/07/17 13:45

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/07/17 13:45
Container ID: 1178572003-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.285 g
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	345	J	507	157	mg/Kg	4		11/04/17 20:29
Surrogates								
n-Triacontane-d62 (surr)	0	*	50-150		%	4		11/04/17 20:29

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:29
Container ID: 1178572003-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.285 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	139		3.98	1.19	mg/Kg	1		11/07/17 02:54
Surrogates								
4-Bromofluorobenzene (surr)	1080	*	50-150		%	1		11/07/17 02:54

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 02:54
Container ID: 1178572003-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:15
Prep Initial Wt./Vol.: 62.012 g
Prep Extract Vol: 38.578 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0159	U	0.0319	0.00988	mg/Kg	1		11/01/17 18:09
1,1,1-Trichloroethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,1,2,2-Tetrachloroethane	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
1,1,2-Trichloroethane	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
1,1-Dichloroethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,1-Dichloroethene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,1-Dichloropropene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,2,3-Trichlorobenzene	0.0398	U	0.0797	0.0239	mg/Kg	1		11/01/17 18:09
1,2,3-Trichloropropane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,2,4-Trichlorobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,2,4-Trimethylbenzene	0.0398	U	0.0797	0.0239	mg/Kg	1		11/01/17 18:09
1,2-Dibromo-3-chloropropane	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
1,2-Dibromoethane	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
1,2-Dichlorobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,2-Dichloroethane	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
1,2-Dichloropropane	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
1,3,5-Trimethylbenzene	4.56		0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,3-Dichlorobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
1,3-Dichloropropane	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
1,4-Dichlorobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
2,2-Dichloropropane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
2-Butanone (MEK)	0.199	U	0.398	0.124	mg/Kg	1		11/01/17 18:09
2-Chlorotoluene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
2-Hexanone	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
4-Chlorotoluene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
4-Isopropyltoluene	2.30		0.0398	0.0124	mg/Kg	1		11/01/17 18:09
4-Methyl-2-pentanone (MIBK)	0.199	U	0.398	0.124	mg/Kg	1		11/01/17 18:09
Benzene	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
Bromobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Bromochloromethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Bromodichloromethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Bromoform	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Bromomethane	0.160	U	0.319	0.0988	mg/Kg	1		11/01/17 18:09
Carbon disulfide	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
Carbon tetrachloride	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
Chlorobenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Chloroethane	0.160	U	0.319	0.0988	mg/Kg	1		11/01/17 18:09

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Chloromethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
cis-1,2-Dichloroethene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
cis-1,3-Dichloropropene	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
Dibromochloromethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Dibromomethane	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Dichlorodifluoromethane	0.0398	U	0.0797	0.0239	mg/Kg	1		11/01/17 18:09
Ethylbenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Freon-113	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
Hexachlorobutadiene	0.0159	U	0.0319	0.00988	mg/Kg	1		11/01/17 18:09
Isopropylbenzene (Cumene)	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Methylene chloride	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
Methyl-t-butyl ether	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
Naphthalene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
n-Butylbenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
n-Propylbenzene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
o-Xylene	0.855		0.0398	0.0124	mg/Kg	1		11/01/17 18:09
P & M -Xylene	0.0398	U	0.0797	0.0239	mg/Kg	1		11/01/17 18:09
sec-Butylbenzene	0.0434		0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Styrene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
tert-Butylbenzene	0.157		0.0398	0.0124	mg/Kg	1		11/01/17 18:09
Tetrachloroethene	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
Toluene	0.0315	J	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
trans-1,2-Dichloroethene	0.0199	U	0.0398	0.0124	mg/Kg	1		11/01/17 18:09
trans-1,3-Dichloropropene	0.00995	U	0.0199	0.00621	mg/Kg	1		11/01/17 18:09
Trichloroethene	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
Trichlorofluoromethane	0.0398	U	0.0797	0.0239	mg/Kg	1		11/01/17 18:09
Vinyl acetate	0.0795	U	0.159	0.0494	mg/Kg	1		11/01/17 18:09
Vinyl chloride	0.00795	U	0.0159	0.00494	mg/Kg	1		11/01/17 18:09
Xylenes (total)	0.855		0.119	0.0363	mg/Kg	1		11/01/17 18:09
Surrogates								
1,2-Dichloroethane-D4 (surr)	100		71-136		%	1		11/01/17 18:09
4-Bromofluorobenzene (surr)	110		55-151		%	1		11/01/17 18:09
Toluene-d8 (surr)	93.6		85-116		%	1		11/01/17 18:09

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-1**

Client Sample ID: **FK-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572003
Lab Project ID: 1178572

Collection Date: 10/22/17 13:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:09
Container ID: 1178572003-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:15
Prep Initial Wt./Vol.: 62.012 g
Prep Extract Vol: 38.578 mL

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	7.20		1.20	0.374	mg/Kg	10		11/02/17 18:52
Barium	156		0.361	0.113	mg/Kg	10		11/02/17 18:52
Cadmium	0.171	J	0.241	0.0747	mg/Kg	10		11/02/17 18:52
Chromium	39.7		0.482	0.157	mg/Kg	10		11/02/17 18:52
Lead	98.2		0.241	0.0747	mg/Kg	10		11/02/17 18:52
Mercury	0.0409	J	0.0482	0.0145	mg/Kg	10		11/02/17 18:52
Selenium	0.503	J	1.20	0.374	mg/Kg	10		11/02/17 18:52
Silver	0.121	U	0.241	0.0747	mg/Kg	10		11/02/17 18:52

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 18:52
Container ID: 1178572004-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.064 g
Prep Extract Vol: 50 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Aroclor-1221	0.127	U	0.254	0.0787	mg/Kg	1		11/08/17 11:28
Aroclor-1232	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Aroclor-1242	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Aroclor-1248	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Aroclor-1254	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Aroclor-1260	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 11:28
Surrogates								
Decachlorobiphenyl (surr)	116		60-125		%	1		11/08/17 11:28

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 11:28
Container ID: 1178572004-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.721 g
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	9.16		1.26	0.379	mg/Kg	40		11/22/17 02:22
2-Methylnaphthalene	0.824		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Acenaphthene	0.473		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Acenaphthylene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Anthracene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Benzo(a)Anthracene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Benzo[a]pyrene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Benzo[b]Fluoranthene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Benzo[g,h,i]perylene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Benzo[k]fluoranthene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Chrysene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Dibenzo[a,h]anthracene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Fluoranthene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Fluorene	0.394		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Indeno[1,2,3-c,d] pyrene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Naphthalene	0.0505 U		0.101	0.0303	mg/Kg	4		11/18/17 21:14
Phenanthrene	0.0645 J		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Pyrene	0.0630 U		0.126	0.0379	mg/Kg	4		11/18/17 21:14
Surrogates								
2-Methylnaphthalene-d10 (surr)	337	*	50-150		%	4		11/18/17 21:14
Fluoranthene-d10 (surr)	74.8		50-150		%	4		11/18/17 21:14

Batch Information

Analytical Batch: XMS10554
Analytical Method: 8270D SIM (PAH)
Analyst: NRB
Analytical Date/Time: 11/22/17 02:22
Container ID: 1178572004-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.827 g
Prep Extract Vol: 5 mL

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 21:14
Container ID: 1178572004-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.827 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	15400		510	158	mg/Kg	4		11/04/17 20:39
Surrogates								
5a Androstane (surr)	0	*	50-150		%	4		11/04/17 20:39

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 20:39
Container ID: 1178572004-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.188 g
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	312	J	510	158	mg/Kg	4		11/04/17 20:39
Surrogates								
n-Triacontane-d62 (surr)	0	*	50-150		%	4		11/04/17 20:39

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:39
Container ID: 1178572004-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.188 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	194		22.6	6.79	mg/Kg	5		11/07/17 03:13
Surrogates								
4-Bromofluorobenzene (surr)	1310	*	50-150		%	5		11/07/17 03:13

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 03:13
Container ID: 1178572004-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:10
Prep Initial Wt./Vol.: 51.383 g
Prep Extract Vol: 36.3033 mL

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0181	U	0.0362	0.0112	mg/Kg	1		11/01/17 18:27
1,1,1-Trichloroethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,1,2,2-Tetrachloroethane	0.0113	U	0.0226	0.00707	mg/Kg	1		11/01/17 18:27
1,1,2-Trichloroethane	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
1,1-Dichloroethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,1-Dichloroethene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,1-Dichloropropene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,2,3-Trichlorobenzene	0.0453	U	0.0906	0.0272	mg/Kg	1		11/01/17 18:27
1,2,3-Trichloropropane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,2,4-Trichlorobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,2,4-Trimethylbenzene	0.0453	U	0.0906	0.0272	mg/Kg	1		11/01/17 18:27
1,2-Dibromo-3-chloropropane	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
1,2-Dibromoethane	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
1,2-Dichlorobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,2-Dichloroethane	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
1,2-Dichloropropane	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
1,3,5-Trimethylbenzene	6.87		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,3-Dichlorobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
1,3-Dichloropropane	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
1,4-Dichlorobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
2,2-Dichloropropane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
2-Butanone (MEK)	0.227	U	0.453	0.141	mg/Kg	1		11/01/17 18:27
2-Chlorotoluene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
2-Hexanone	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
4-Chlorotoluene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
4-Isopropyltoluene	3.83		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
4-Methyl-2-pentanone (MIBK)	0.227	U	0.453	0.141	mg/Kg	1		11/01/17 18:27
Benzene	0.0294		0.0226	0.00707	mg/Kg	1		11/01/17 18:27
Bromobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Bromochloromethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Bromodichloromethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Bromoform	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Bromomethane	0.181	U	0.362	0.112	mg/Kg	1		11/01/17 18:27
Carbon disulfide	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
Carbon tetrachloride	0.0113	U	0.0226	0.00707	mg/Kg	1		11/01/17 18:27
Chlorobenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Chloroethane	0.181	U	0.362	0.112	mg/Kg	1		11/01/17 18:27

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Chloromethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
cis-1,2-Dichloroethene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
cis-1,3-Dichloropropene	0.0113	U	0.0226	0.00707	mg/Kg	1		11/01/17 18:27
Dibromochloromethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Dibromomethane	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Dichlorodifluoromethane	0.0453	U	0.0906	0.0272	mg/Kg	1		11/01/17 18:27
Ethylbenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Freon-113	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
Hexachlorobutadiene	0.0181	U	0.0362	0.0112	mg/Kg	1		11/01/17 18:27
Isopropylbenzene (Cumene)	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Methylene chloride	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
Methyl-t-butyl ether	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
Naphthalene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
n-Butylbenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
n-Propylbenzene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
o-Xylene	1.25		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
P & M -Xylene	0.0453	U	0.0906	0.0272	mg/Kg	1		11/01/17 18:27
sec-Butylbenzene	0.101		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Styrene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
tert-Butylbenzene	0.251		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
Tetrachloroethene	0.0113	U	0.0226	0.00707	mg/Kg	1		11/01/17 18:27
Toluene	0.360		0.0453	0.0141	mg/Kg	1		11/01/17 18:27
trans-1,2-Dichloroethene	0.0227	U	0.0453	0.0141	mg/Kg	1		11/01/17 18:27
trans-1,3-Dichloropropene	0.0113	U	0.0226	0.00707	mg/Kg	1		11/01/17 18:27
Trichloroethene	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
Trichlorofluoromethane	0.0453	U	0.0906	0.0272	mg/Kg	1		11/01/17 18:27
Vinyl acetate	0.0905	U	0.181	0.0562	mg/Kg	1		11/01/17 18:27
Vinyl chloride	0.00905	U	0.0181	0.00562	mg/Kg	1		11/01/17 18:27
Xylenes (total)	1.25		0.136	0.0413	mg/Kg	1		11/01/17 18:27
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.3		71-136		%	1		11/01/17 18:27
4-Bromofluorobenzene (surr)	147		55-151		%	1		11/01/17 18:27
Toluene-d8 (surr)	90.5		85-116		%	1		11/01/17 18:27

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-11**

Client Sample ID: **FK-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572004
Lab Project ID: 1178572

Collection Date: 10/22/17 13:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:27
Container ID: 1178572004-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:10
Prep Initial Wt./Vol.: 51.383 g
Prep Extract Vol: 36.3033 mL

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	11.9		1.44	0.446	mg/Kg	10		11/02/17 18:56
Barium	169		0.432	0.135	mg/Kg	10		11/02/17 18:56
Cadmium	0.138	J	0.288	0.0892	mg/Kg	10		11/02/17 18:56
Chromium	29.6		0.576	0.187	mg/Kg	10		11/02/17 18:56
Lead	11.7		0.288	0.0892	mg/Kg	10		11/02/17 18:56
Mercury	0.0481	J	0.0576	0.0173	mg/Kg	10		11/02/17 18:56
Selenium	0.732	J	1.44	0.446	mg/Kg	10		11/02/17 18:56
Silver	0.144	U	0.288	0.0892	mg/Kg	10		11/02/17 18:56

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 18:56
Container ID: 1178572005-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.011 g
Prep Extract Vol: 50 mL

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Aroclor-1221	0.145	U	0.290	0.0899	mg/Kg	1		11/08/17 11:43
Aroclor-1232	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Aroclor-1242	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Aroclor-1248	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Aroclor-1254	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Aroclor-1260	0.0362	U	0.0725	0.0217	mg/Kg	1		11/08/17 11:43
Surrogates								
Decachlorobiphenyl (surr)	114		60-125		%	1		11/08/17 11:43

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 11:43
Container ID: 1178572005-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.591 g
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	7520		1160	360	mg/Kg	40		11/07/17 13:55
Surrogates								
5a Androstane (surr)	0	*	50-150		%	40		11/07/17 13:55

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/07/17 13:55
Container ID: 1178572005-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.044 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	518		116	36.0	mg/Kg	4		11/04/17 20:48
Surrogates								
n-Triacontane-d62 (surr)	89.6		50-150		%	4		11/04/17 20:48

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:48
Container ID: 1178572005-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.044 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	3610		506	152	mg/Kg	50		11/15/17 06:19
Surrogates								
4-Bromofluorobenzene (surr)	8480	*	50-150		%	50		11/15/17 06:19

Batch Information

Analytical Batch: VFC13990
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/15/17 06:19
Container ID: 1178572005-B

Prep Batch: VXX31724
Prep Method: SW5035A 2X MeOH
Prep Date/Time: 10/22/17 13:30
Prep Initial Wt./Vol.: 46.415 g
Prep Extract Vol: 64.5223 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.203	U	0.405	0.125	mg/Kg	5		11/03/17 23:52
1,1,1-Trichloroethane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,1,2,2-Tetrachloroethane	0.0253	U	0.0506	0.0158	mg/Kg	1		11/01/17 18:44
1,1,2-Trichloroethane	0.101	U	0.202	0.0627	mg/Kg	5		11/03/17 23:52
1,1-Dichloroethane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,1-Dichloroethene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,1-Dichloropropene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,2,3-Trichlorobenzene	0.101	U	0.202	0.0627	mg/Kg	1		11/01/17 18:44
1,2,3-Trichloropropane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,2,4-Trichlorobenzene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,2,4-Trimethylbenzene	76.7		1.01	0.314	mg/Kg	5		11/03/17 23:52
1,2-Dibromo-3-chloropropane	0.203	U	0.405	0.125	mg/Kg	1		11/01/17 18:44
1,2-Dibromoethane	0.101	U	0.202	0.0627	mg/Kg	5		11/03/17 23:52
1,2-Dichlorobenzene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,2-Dichloroethane	0.0203	U	0.0405	0.0125	mg/Kg	1		11/01/17 18:44
1,2-Dichloropropane	0.0203	U	0.0405	0.0125	mg/Kg	1		11/01/17 18:44
1,3,5-Trimethylbenzene	50.8		0.506	0.158	mg/Kg	5		11/03/17 23:52
1,3-Dichlorobenzene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
1,3-Dichloropropane	0.101	U	0.202	0.0627	mg/Kg	5		11/03/17 23:52
1,4-Dichlorobenzene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
2,2-Dichloropropane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
2-Butanone (MEK)	0.505	U	1.01	0.316	mg/Kg	1		11/01/17 18:44
2-Chlorotoluene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
2-Hexanone	1.01	U	2.02	0.627	mg/Kg	5		11/03/17 23:52
4-Chlorotoluene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
4-Isopropyltoluene	4.87		0.101	0.0316	mg/Kg	1		11/01/17 18:44
4-Methyl-2-pentanone (MIBK)	0.505	U	1.01	0.316	mg/Kg	1		11/01/17 18:44
Benzene	10.1		0.0506	0.0158	mg/Kg	1		11/01/17 18:44
Bromobenzene	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
Bromochloromethane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
Bromodichloromethane	0.0505	U	0.101	0.0316	mg/Kg	1		11/01/17 18:44
Bromoform	0.253	U	0.506	0.158	mg/Kg	5		11/03/17 23:52
Bromomethane	0.405	U	0.809	0.251	mg/Kg	1		11/01/17 18:44
Carbon disulfide	0.203	U	0.405	0.125	mg/Kg	1		11/01/17 18:44
Carbon tetrachloride	0.0253	U	0.0506	0.0158	mg/Kg	1		11/01/17 18:44
Chlorobenzene	0.253	U	0.506	0.158	mg/Kg	5		11/03/17 23:52
Chloroethane	0.405	U	0.809	0.251	mg/Kg	1		11/01/17 18:44

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
Chloromethane	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
cis-1,2-Dichloroethene	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
cis-1,3-Dichloropropene	0.0253 U		0.0506	0.0158	mg/Kg	1		11/01/17 18:44
Dibromochloromethane	0.253 U		0.506	0.158	mg/Kg	5		11/03/17 23:52
Dibromomethane	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
Dichlorodifluoromethane	0.101 U		0.202	0.0627	mg/Kg	1		11/01/17 18:44
Ethylbenzene	18.9		0.506	0.158	mg/Kg	5		11/03/17 23:52
Freon-113	0.203 U		0.405	0.125	mg/Kg	1		11/01/17 18:44
Hexachlorobutadiene	0.0405 U		0.0809	0.0251	mg/Kg	1		11/01/17 18:44
Isopropylbenzene (Cumene)	18.3		0.506	0.158	mg/Kg	5		11/03/17 23:52
Methylene chloride	0.203 U		0.405	0.125	mg/Kg	1		11/01/17 18:44
Methyl-t-butyl ether	0.203 U		0.405	0.125	mg/Kg	1		11/01/17 18:44
Naphthalene	14.3		0.101	0.0316	mg/Kg	1		11/01/17 18:44
n-Butylbenzene	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
n-Propylbenzene	12.7		0.101	0.0316	mg/Kg	1		11/01/17 18:44
o-Xylene	163		5.06	1.58	mg/Kg	50		11/05/17 22:31
P & M -Xylene	106		10.1	3.03	mg/Kg	50		11/05/17 22:31
sec-Butylbenzene	13.7		0.101	0.0316	mg/Kg	1		11/01/17 18:44
Styrene	0.253 U		0.506	0.158	mg/Kg	5		11/03/17 23:52
tert-Butylbenzene	1.27		0.101	0.0316	mg/Kg	1		11/01/17 18:44
Tetrachloroethene	0.127 U		0.253	0.0789	mg/Kg	5		11/03/17 23:52
Toluene	82.0		0.506	0.158	mg/Kg	5		11/03/17 23:52
trans-1,2-Dichloroethene	0.0505 U		0.101	0.0316	mg/Kg	1		11/01/17 18:44
trans-1,3-Dichloropropene	0.127 U		0.253	0.0789	mg/Kg	5		11/03/17 23:52
Trichloroethene	0.0203 U		0.0405	0.0125	mg/Kg	1		11/01/17 18:44
Trichlorofluoromethane	0.101 U		0.202	0.0627	mg/Kg	1		11/01/17 18:44
Vinyl acetate	0.203 U		0.405	0.125	mg/Kg	1		11/01/17 18:44
Vinyl chloride	0.0203 U		0.0405	0.0125	mg/Kg	1		11/01/17 18:44
Xylenes (total)	269		15.2	4.61	mg/Kg	50		11/05/17 22:31
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.8		71-136		%	1		11/01/17 18:44
4-Bromofluorobenzene (surr)	125		55-151		%	1		11/01/17 18:44
Toluene-d8 (surr)	208	*	85-116		%	5		11/03/17 23:52

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-2**

Client Sample ID: **FK-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572005
Lab Project ID: 1178572

Collection Date: 10/22/17 13:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:44
Container ID: 1178572005-B

Prep Batch: VXX31660
Prep Method: SW5035A 2X MeOH
Prep Date/Time: 10/22/17 13:30
Prep Initial Wt./Vol.: 46.415 g
Prep Extract Vol: 64.5223 mL

Analytical Batch: VMS17438
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/05/17 22:31
Container ID: 1178572005-B

Prep Batch: VXX31689
Prep Method: SW5035A 2X MeOH
Prep Date/Time: 10/22/17 13:30
Prep Initial Wt./Vol.: 46.415 g
Prep Extract Vol: 64.5223 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 23:52
Container ID: 1178572005-B

Prep Batch: VXX31675
Prep Method: SW5035A 2X MeOH
Prep Date/Time: 10/22/17 13:30
Prep Initial Wt./Vol.: 46.415 g
Prep Extract Vol: 64.5223 mL

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.0242	J	0.0457	0.0137	mg/Kg	10		11/02/17 19:01
Silver	0.114	U	0.228	0.0708	mg/Kg	10		11/02/17 19:01
Selenium	0.382	J	1.14	0.354	mg/Kg	10		11/02/17 19:01
Lead	9.37		0.228	0.0708	mg/Kg	10		11/02/17 19:01
Arsenic	13.2		1.14	0.354	mg/Kg	10		11/02/17 19:01
Barium	117		0.343	0.107	mg/Kg	10		11/02/17 19:01
Cadmium	0.110	J	0.228	0.0708	mg/Kg	10		11/02/17 19:01
Chromium	24.5		0.457	0.148	mg/Kg	10		11/02/17 19:01

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 19:01
Container ID: 1178572006-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.042 g
Prep Extract Vol: 50 mL

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1232	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1242	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1248	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1254	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1260	0.0295	U	0.0589	0.0177	mg/Kg	1		11/08/17 11:58
Aroclor-1221	0.118	U	0.236	0.0730	mg/Kg	1		11/08/17 11:58
Surrogates								
Decachlorobiphenyl (surr)	117		60-125		%	1		11/08/17 11:58

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 11:58
Container ID: 1178572006-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.725 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1830		93.7	29.1	mg/Kg	4		11/04/17 20:59
Surrogates								
5a Androstane (surr)	95		50-150		%	4		11/04/17 20:59

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 20:59
Container ID: 1178572006-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.465 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	424		93.7	29.1	mg/Kg	4		11/04/17 20:59
Surrogates								
n-Triacontane-d62 (surr)	149		50-150		%	4		11/04/17 20:59

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 20:59
Container ID: 1178572006-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.465 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	41.9		17.6	5.28	mg/Kg	5		11/07/17 03:50
Surrogates								
4-Bromofluorobenzene (surr)	438	*	50-150		%	5		11/07/17 03:50

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 03:50
Container ID: 1178572006-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:45
Prep Initial Wt./Vol.: 57.837 g
Prep Extract Vol: 34.225 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0141	U	0.0282	0.00873	mg/Kg	1		11/01/17 19:02
1,1,1-Trichloroethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,1,2,2-Tetrachloroethane	0.00880	U	0.0176	0.00549	mg/Kg	1		11/01/17 19:02
1,1,2-Trichloroethane	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
1,1-Dichloroethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,1-Dichloroethene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,1-Dichloropropene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,2,3-Trichlorobenzene	0.0352	U	0.0704	0.0211	mg/Kg	1		11/01/17 19:02
1,2,3-Trichloropropane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,2,4-Trichlorobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,2,4-Trimethylbenzene	0.729		0.0704	0.0211	mg/Kg	1		11/05/17 21:56
1,2-Dibromo-3-chloropropane	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
1,2-Dibromoethane	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
1,2-Dichlorobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,2-Dichloroethane	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
1,2-Dichloropropane	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
1,3,5-Trimethylbenzene	0.333		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
1,3-Dichlorobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
1,3-Dichloropropane	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
1,4-Dichlorobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
2,2-Dichloropropane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
2-Butanone (MEK)	0.176	U	0.352	0.110	mg/Kg	1		11/01/17 19:02
2-Chlorotoluene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
2-Hexanone	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
4-Chlorotoluene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
4-Isopropyltoluene	0.107		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
4-Methyl-2-pentanone (MIBK)	0.176	U	0.352	0.110	mg/Kg	1		11/01/17 19:02
Benzene	0.00880	U	0.0176	0.00549	mg/Kg	1		11/05/17 21:56
Bromobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Bromochloromethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Bromodichloromethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Bromoform	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Bromomethane	0.141	U	0.282	0.0873	mg/Kg	1		11/01/17 19:02
Carbon disulfide	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
Carbon tetrachloride	0.00880	U	0.0176	0.00549	mg/Kg	1		11/01/17 19:02
Chlorobenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Chloroethane	0.141	U	0.282	0.0873	mg/Kg	1		11/01/17 19:02

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Chloromethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
cis-1,2-Dichloroethene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
cis-1,3-Dichloropropene	0.00880	U	0.0176	0.00549	mg/Kg	1		11/01/17 19:02
Dibromochloromethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Dibromomethane	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Dichlorodifluoromethane	0.0352	U	0.0704	0.0211	mg/Kg	1		11/01/17 19:02
Ethylbenzene	0.0676		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
Freon-113	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
Hexachlorobutadiene	0.0141	U	0.0282	0.00873	mg/Kg	1		11/01/17 19:02
Isopropylbenzene (Cumene)	0.0838		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
Methylene chloride	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
Methyl-t-butyl ether	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
Naphthalene	0.212		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
n-Butylbenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
n-Propylbenzene	0.113		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
o-Xylene	0.300		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
P & M -Xylene	0.279		0.0704	0.0211	mg/Kg	1		11/05/17 21:56
sec-Butylbenzene	0.104		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
Styrene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
tert-Butylbenzene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
Tetrachloroethene	0.00880	U	0.0176	0.00549	mg/Kg	1		11/01/17 19:02
Toluene	0.373		0.0352	0.0110	mg/Kg	1		11/05/17 21:56
trans-1,2-Dichloroethene	0.0176	U	0.0352	0.0110	mg/Kg	1		11/01/17 19:02
trans-1,3-Dichloropropene	0.00880	U	0.0176	0.00549	mg/Kg	1		11/01/17 19:02
Trichloroethene	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
Trichlorofluoromethane	0.0352	U	0.0704	0.0211	mg/Kg	1		11/01/17 19:02
Vinyl acetate	0.0705	U	0.141	0.0437	mg/Kg	1		11/01/17 19:02
Vinyl chloride	0.00705	U	0.0141	0.00437	mg/Kg	1		11/01/17 19:02
Xylenes (total)	0.579		0.106	0.0321	mg/Kg	1		11/05/17 21:56
Surrogates								
1,2-Dichloroethane-D4 (surr)	103		71-136		%	1		11/01/17 19:02
4-Bromofluorobenzene (surr)	85.4		55-151		%	1		11/01/17 19:02
Toluene-d8 (surr)	100		85-116		%	1		11/01/17 19:02

Results of **FK-3**

Client Sample ID: **FK-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572006
Lab Project ID: 1178572

Collection Date: 10/22/17 13:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:02
Container ID: 1178572006-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:45
Prep Initial Wt./Vol.: 57.837 g
Prep Extract Vol: 34.225 mL

Analytical Batch: VMS17438
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/05/17 21:56
Container ID: 1178572006-B

Prep Batch: VXX31689
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:45
Prep Initial Wt./Vol.: 57.837 g
Prep Extract Vol: 34.225 mL

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	10.3		1.14	0.354	mg/Kg	10		11/02/17 19:05
Barium	176		0.343	0.107	mg/Kg	10		11/02/17 19:05
Cadmium	0.313		0.228	0.0708	mg/Kg	10		11/02/17 19:05
Chromium	31.5		0.457	0.148	mg/Kg	10		11/02/17 19:05
Lead	14.5		0.228	0.0708	mg/Kg	10		11/02/17 19:05
Mercury	0.0386	J	0.0457	0.0137	mg/Kg	10		11/02/17 19:05
Selenium	0.622	J	1.14	0.354	mg/Kg	10		11/02/17 19:05
Silver	0.114	U	0.228	0.0708	mg/Kg	10		11/02/17 19:05

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 19:05
Container ID: 1178572007-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.064 g
Prep Extract Vol: 50 mL

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Aroclor-1221	0.121	U	0.242	0.0749	mg/Kg	1		11/08/17 12:42
Aroclor-1232	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Aroclor-1242	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Aroclor-1248	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Aroclor-1254	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Aroclor-1260	0.0302	U	0.0604	0.0181	mg/Kg	1		11/08/17 12:42
Surrogates								
Decachlorobiphenyl (surr)	112		60-125		%	1		11/08/17 12:42

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 12:42
Container ID: 1178572007-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.624 g
Prep Extract Vol: 5 mL

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	74.9		24.3	7.53	mg/Kg	1		11/04/17 17:54
Surrogates								
5a Androstane (surr)	85.7		50-150		%	1		11/04/17 17:54

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 17:54
Container ID: 1178572007-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.001 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	177		24.3	7.53	mg/Kg	1		11/04/17 17:54
Surrogates								
n-Triacontane-d62 (surr)	86.9		50-150		%	1		11/04/17 17:54

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 17:54
Container ID: 1178572007-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.001 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	3.45		3.11	0.934	mg/Kg	1		11/07/17 04:08
Surrogates								
4-Bromofluorobenzene (surr)	96.4		50-150		%	1		11/07/17 04:08

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 04:08
Container ID: 1178572007-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:55
Prep Initial Wt./Vol.: 74.544 g
Prep Extract Vol: 38.1914 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0124	U	0.0249	0.00772	mg/Kg	1		11/01/17 19:20
1,1,1-Trichloroethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,1,2,2-Tetrachloroethane	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
1,1,2-Trichloroethane	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
1,1-Dichloroethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,1-Dichloroethene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,1-Dichloropropene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,2,3-Trichlorobenzene	0.0311	U	0.0622	0.0187	mg/Kg	1		11/01/17 19:20
1,2,3-Trichloropropane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,2,4-Trichlorobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,2,4-Trimethylbenzene	0.0775		0.0622	0.0187	mg/Kg	1		11/03/17 23:16
1,2-Dibromo-3-chloropropane	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
1,2-Dibromoethane	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
1,2-Dichlorobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,2-Dichloroethane	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
1,2-Dichloropropane	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
1,3,5-Trimethylbenzene	0.0781		0.0311	0.00971	mg/Kg	1		11/03/17 23:16
1,3-Dichlorobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
1,3-Dichloropropane	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
1,4-Dichlorobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
2,2-Dichloropropane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
2-Butanone (MEK)	0.156	U	0.311	0.0971	mg/Kg	1		11/01/17 19:20
2-Chlorotoluene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
2-Hexanone	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
4-Chlorotoluene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
4-Isopropyltoluene	0.0352		0.0311	0.00971	mg/Kg	1		11/03/17 23:16
4-Methyl-2-pentanone (MIBK)	0.156	U	0.311	0.0971	mg/Kg	1		11/01/17 19:20
Benzene	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
Bromobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Bromochloromethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Bromodichloromethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Bromoform	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Bromomethane	0.125	U	0.249	0.0772	mg/Kg	1		11/01/17 19:20
Carbon disulfide	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
Carbon tetrachloride	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
Chlorobenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Chloroethane	0.125	U	0.249	0.0772	mg/Kg	1		11/01/17 19:20

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Chloromethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
cis-1,2-Dichloroethene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
cis-1,3-Dichloropropene	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
Dibromochloromethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Dibromomethane	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Dichlorodifluoromethane	0.0311	U	0.0622	0.0187	mg/Kg	1		11/01/17 19:20
Ethylbenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Freon-113	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
Hexachlorobutadiene	0.0124	U	0.0249	0.00772	mg/Kg	1		11/01/17 19:20
Isopropylbenzene (Cumene)	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Methylene chloride	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
Methyl-t-butyl ether	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
Naphthalene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/03/17 23:16
n-Butylbenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
n-Propylbenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
o-Xylene	0.123		0.0311	0.00971	mg/Kg	1		11/03/17 23:16
P & M -Xylene	0.0451	J	0.0622	0.0187	mg/Kg	1		11/03/17 23:16
sec-Butylbenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/03/17 23:16
Styrene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
tert-Butylbenzene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
Tetrachloroethene	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
Toluene	0.0591		0.0311	0.00971	mg/Kg	1		11/03/17 23:16
trans-1,2-Dichloroethene	0.0156	U	0.0311	0.00971	mg/Kg	1		11/01/17 19:20
trans-1,3-Dichloropropene	0.00780	U	0.0156	0.00486	mg/Kg	1		11/01/17 19:20
Trichloroethene	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
Trichlorofluoromethane	0.0311	U	0.0622	0.0187	mg/Kg	1		11/01/17 19:20
Vinyl acetate	0.0620	U	0.124	0.0386	mg/Kg	1		11/01/17 19:20
Vinyl chloride	0.00620	U	0.0124	0.00386	mg/Kg	1		11/01/17 19:20
Xylenes (total)	0.168		0.0934	0.0284	mg/Kg	1		11/03/17 23:16
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 19:20
4-Bromofluorobenzene (surr)	100		55-151		%	1		11/01/17 19:20
Toluene-d8 (surr)	97.8		85-116		%	1		11/01/17 19:20

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-4**

Client Sample ID: **FK-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572007
Lab Project ID: 1178572

Collection Date: 10/22/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.3
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:20
Container ID: 1178572007-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:55
Prep Initial Wt./Vol.: 74.544 g
Prep Extract Vol: 38.1914 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 23:16
Container ID: 1178572007-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/22/17 13:55
Prep Initial Wt./Vol.: 74.544 g
Prep Extract Vol: 38.1914 mL

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	9.78		1.14	0.354	mg/Kg	10		11/02/17 19:10
Barium	157		0.343	0.107	mg/Kg	10		11/02/17 19:10
Cadmium	0.216	J	0.229	0.0709	mg/Kg	10		11/02/17 19:10
Chromium	26.5		0.457	0.149	mg/Kg	10		11/02/17 19:10
Lead	11.3		0.229	0.0709	mg/Kg	10		11/02/17 19:10
Mercury	0.0254	J	0.0457	0.0137	mg/Kg	10		11/02/17 19:10
Selenium	0.767	J	1.14	0.354	mg/Kg	10		11/02/17 19:10
Silver	0.115	U	0.229	0.0709	mg/Kg	10		11/02/17 19:10

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 19:10
Container ID: 1178572008-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.078 g
Prep Extract Vol: 50 mL

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Aroclor-1221	0.123	U	0.245	0.0761	mg/Kg	1		11/08/17 12:57
Aroclor-1232	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Aroclor-1242	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Aroclor-1248	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Aroclor-1254	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Aroclor-1260	0.0307	U	0.0614	0.0184	mg/Kg	1		11/08/17 12:57
Surrogates								
Decachlorobiphenyl (surr)	115		60-125		%	1		11/08/17 12:57

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 12:57
Container ID: 1178572008-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.593 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	28.7		24.6	7.64	mg/Kg	1		11/04/17 18:03
Surrogates								
5a Androstane (surr)	85.1		50-150		%	1		11/04/17 18:03

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:03
Container ID: 1178572008-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.02 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	163		24.6	7.64	mg/Kg	1		11/04/17 18:03
Surrogates								
n-Triacontane-d62 (surr)	84.3		50-150		%	1		11/04/17 18:03

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:03
Container ID: 1178572008-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.02 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.72	J	4.27	1.28	mg/Kg	1		11/07/17 04:26
Surrogates								
4-Bromofluorobenzene (surr)	78		50-150		%	1		11/07/17 04:26

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 04:26
Container ID: 1178572008-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:00
Prep Initial Wt./Vol.: 49.564 g
Prep Extract Vol: 34.3485 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0171	U	0.0342	0.0106	mg/Kg	1		11/01/17 19:37
1,1,1-Trichloroethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,1,2,2-Tetrachloroethane	0.0107	U	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
1,1,2-Trichloroethane	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
1,1-Dichloroethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,1-Dichloroethene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,1-Dichloropropene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,2,3-Trichlorobenzene	0.0427	U	0.0854	0.0256	mg/Kg	1		11/01/17 19:37
1,2,3-Trichloropropane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,2,4-Trichlorobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,2,4-Trimethylbenzene	0.0427	U	0.0854	0.0256	mg/Kg	1		11/01/17 19:37
1,2-Dibromo-3-chloropropane	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
1,2-Dibromoethane	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
1,2-Dichlorobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,2-Dichloroethane	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
1,2-Dichloropropane	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
1,3,5-Trimethylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,3-Dichlorobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
1,3-Dichloropropane	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
1,4-Dichlorobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
2,2-Dichloropropane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
2-Butanone (MEK)	0.214	U	0.427	0.133	mg/Kg	1		11/01/17 19:37
2-Chlorotoluene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
2-Hexanone	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
4-Chlorotoluene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
4-Isopropyltoluene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
4-Methyl-2-pentanone (MIBK)	0.214	U	0.427	0.133	mg/Kg	1		11/01/17 19:37
Benzene	0.00982	J	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
Bromobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Bromochloromethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Bromodichloromethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Bromoform	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Bromomethane	0.171	U	0.342	0.106	mg/Kg	1		11/01/17 19:37
Carbon disulfide	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
Carbon tetrachloride	0.0107	U	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
Chlorobenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Chloroethane	0.171	U	0.342	0.106	mg/Kg	1		11/01/17 19:37

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Chloromethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
cis-1,2-Dichloroethene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
cis-1,3-Dichloropropene	0.0107	U	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
Dibromochloromethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Dibromomethane	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Dichlorodifluoromethane	0.0427	U	0.0854	0.0256	mg/Kg	1		11/01/17 19:37
Ethylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Freon-113	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
Hexachlorobutadiene	0.0171	U	0.0342	0.0106	mg/Kg	1		11/01/17 19:37
Isopropylbenzene (Cumene)	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Methylene chloride	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
Methyl-t-butyl ether	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
Naphthalene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
n-Butylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
n-Propylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
o-Xylene	0.0261	J	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
P & M -Xylene	0.0427	U	0.0854	0.0256	mg/Kg	1		11/01/17 19:37
sec-Butylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Styrene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
tert-Butylbenzene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
Tetrachloroethene	0.0107	U	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
Toluene	0.161		0.0427	0.0133	mg/Kg	1		11/01/17 19:37
trans-1,2-Dichloroethene	0.0214	U	0.0427	0.0133	mg/Kg	1		11/01/17 19:37
trans-1,3-Dichloropropene	0.0107	U	0.0214	0.00666	mg/Kg	1		11/01/17 19:37
Trichloroethene	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
Trichlorofluoromethane	0.0427	U	0.0854	0.0256	mg/Kg	1		11/01/17 19:37
Vinyl acetate	0.0855	U	0.171	0.0530	mg/Kg	1		11/01/17 19:37
Vinyl chloride	0.00855	U	0.0171	0.00530	mg/Kg	1		11/01/17 19:37
Xylenes (total)	0.0640	U	0.128	0.0389	mg/Kg	1		11/01/17 19:37
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.8		71-136		%	1		11/01/17 19:37
4-Bromofluorobenzene (surr)	91.4		55-151		%	1		11/01/17 19:37
Toluene-d8 (surr)	100		85-116		%	1		11/01/17 19:37

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-5**

Client Sample ID: **FK-5**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572008
Lab Project ID: 1178572

Collection Date: 10/22/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:37
Container ID: 1178572008-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:00
Prep Initial Wt./Vol.: 49.564 g
Prep Extract Vol: 34.3485 mL

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	9.67		1.21	0.375	mg/Kg	10		11/02/17 19:14
Barium	166		0.363	0.114	mg/Kg	10		11/02/17 19:14
Cadmium	0.227	J	0.242	0.0750	mg/Kg	10		11/02/17 19:14
Chromium	28.1		0.484	0.157	mg/Kg	10		11/02/17 19:14
Lead	13.7		0.242	0.0750	mg/Kg	10		11/02/17 19:14
Mercury	0.0254	J	0.0484	0.0145	mg/Kg	10		11/02/17 19:14
Selenium	0.526	J	1.21	0.375	mg/Kg	10		11/02/17 19:14
Silver	0.121	U	0.242	0.0750	mg/Kg	10		11/02/17 19:14

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 19:14
Container ID: 1178572009-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.041 g
Prep Extract Vol: 50 mL

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Aroclor-1221	0.125	U	0.250	0.0776	mg/Kg	1		11/08/17 13:42
Aroclor-1232	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Aroclor-1242	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Aroclor-1248	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Aroclor-1254	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Aroclor-1260	0.0313	U	0.0626	0.0188	mg/Kg	1		11/08/17 13:42
Surrogates								
Decachlorobiphenyl (surr)	98		60-125		%	1		11/08/17 13:42

Batch Information

Analytical Batch: XGC9949
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 13:42
Container ID: 1178572009-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.633 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	26.3		24.9	7.72	mg/Kg	1		11/04/17 18:13
Surrogates								
5a Androstane (surr)	78.2		50-150		%	1		11/04/17 18:13

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:13
Container ID: 1178572009-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.352 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	182		24.9	7.72	mg/Kg	1		11/04/17 18:13
Surrogates								
n-Triacontane-d62 (surr)	75.8		50-150		%	1		11/04/17 18:13

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:13
Container ID: 1178572009-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.352 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.42	U	4.84	1.45	mg/Kg	1		11/07/17 04:45
Surrogates								
4-Bromofluorobenzene (surr)	71.8		50-150		%	1		11/07/17 04:45

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 04:45
Container ID: 1178572009-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:05
Prep Initial Wt./Vol.: 44.416 g
Prep Extract Vol: 34.1513 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0193	U	0.0387	0.0120	mg/Kg	1		11/01/17 19:55
1,1,1-Trichloroethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,1,2,2-Tetrachloroethane	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
1,1,2-Trichloroethane	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
1,1-Dichloroethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,1-Dichloroethene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,1-Dichloropropene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,2,3-Trichlorobenzene	0.0484	U	0.0968	0.0291	mg/Kg	1		11/01/17 19:55
1,2,3-Trichloropropane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,2,4-Trichlorobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,2,4-Trimethylbenzene	0.0484	U	0.0968	0.0291	mg/Kg	1		11/01/17 19:55
1,2-Dibromo-3-chloropropane	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
1,2-Dibromoethane	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
1,2-Dichlorobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,2-Dichloroethane	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
1,2-Dichloropropane	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
1,3,5-Trimethylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,3-Dichlorobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
1,3-Dichloropropane	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
1,4-Dichlorobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
2,2-Dichloropropane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
2-Butanone (MEK)	0.242	U	0.484	0.151	mg/Kg	1		11/01/17 19:55
2-Chlorotoluene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
2-Hexanone	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
4-Chlorotoluene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
4-Isopropyltoluene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
4-Methyl-2-pentanone (MIBK)	0.242	U	0.484	0.151	mg/Kg	1		11/01/17 19:55
Benzene	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
Bromobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Bromochloromethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Bromodichloromethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Bromoform	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Bromomethane	0.194	U	0.387	0.120	mg/Kg	1		11/01/17 19:55
Carbon disulfide	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
Carbon tetrachloride	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
Chlorobenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Chloroethane	0.194	U	0.387	0.120	mg/Kg	1		11/01/17 19:55

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Chloromethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
cis-1,2-Dichloroethene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
cis-1,3-Dichloropropene	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
Dibromochloromethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Dibromomethane	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Dichlorodifluoromethane	0.0484	U	0.0968	0.0291	mg/Kg	1		11/01/17 19:55
Ethylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Freon-113	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
Hexachlorobutadiene	0.0193	U	0.0387	0.0120	mg/Kg	1		11/01/17 19:55
Isopropylbenzene (Cumene)	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Methylene chloride	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
Methyl-t-butyl ether	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
Naphthalene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
n-Butylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
n-Propylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
o-Xylene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
P & M -Xylene	0.0484	U	0.0968	0.0291	mg/Kg	1		11/01/17 19:55
sec-Butylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Styrene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
tert-Butylbenzene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
Tetrachloroethene	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
Toluene	0.174		0.0484	0.0151	mg/Kg	1		11/01/17 19:55
trans-1,2-Dichloroethene	0.0242	U	0.0484	0.0151	mg/Kg	1		11/01/17 19:55
trans-1,3-Dichloropropene	0.0121	U	0.0242	0.00755	mg/Kg	1		11/01/17 19:55
Trichloroethene	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
Trichlorofluoromethane	0.0484	U	0.0968	0.0291	mg/Kg	1		11/01/17 19:55
Vinyl acetate	0.0970	U	0.194	0.0600	mg/Kg	1		11/01/17 19:55
Vinyl chloride	0.00970	U	0.0194	0.00600	mg/Kg	1		11/01/17 19:55
Xylenes (total)	0.0725	U	0.145	0.0442	mg/Kg	1		11/01/17 19:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 19:55
4-Bromofluorobenzene (surr)	86.3		55-151		%	1		11/01/17 19:55
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 19:55

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-6**

Client Sample ID: **FK-6**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572009
Lab Project ID: 1178572

Collection Date: 10/22/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):79.4
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:55
Container ID: 1178572009-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:05
Prep Initial Wt./Vol.: 44.416 g
Prep Extract Vol: 34.1513 mL

Results of **FK-7**

Client Sample ID: **FK-7**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572010
Lab Project ID: 1178572

Collection Date: 10/22/17 15:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.9
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	14.0		1.23	0.381	mg/Kg	10		11/02/17 19:19
Barium	218		0.368	0.115	mg/Kg	10		11/02/17 19:19
Cadmium	0.150	J	0.246	0.0761	mg/Kg	10		11/02/17 19:19
Chromium	38.8		0.491	0.160	mg/Kg	10		11/02/17 19:19
Lead	13.9		0.246	0.0761	mg/Kg	10		11/02/17 19:19
Mercury	0.0502		0.0491	0.0147	mg/Kg	10		11/02/17 19:19
Selenium	0.796	J	1.23	0.381	mg/Kg	10		11/02/17 19:19
Silver	0.0804	J	0.246	0.0761	mg/Kg	10		11/02/17 19:19

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/02/17 19:19
Container ID: 1178572010-A

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/01/17 08:01
Prep Initial Wt./Vol.: 1.088 g
Prep Extract Vol: 50 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-7**

Client Sample ID: **FK-7**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572010
Lab Project ID: 1178572

Collection Date: 10/22/17 15:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.9
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Aroclor-1221	0.133	U	0.266	0.0826	mg/Kg	1		11/08/17 13:56
Aroclor-1232	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Aroclor-1242	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Aroclor-1248	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Aroclor-1254	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Aroclor-1260	0.0333	U	0.0666	0.0200	mg/Kg	1		11/08/17 13:56
Surrogates								
Decachlorobiphenyl (surr)	90		60-125		%	1		11/08/17 13:56

Batch Information

Analytical Batch: XGC9949
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 13:56
Container ID: 1178572010-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.563 g
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **FK-7**

Client Sample ID: **FK-7**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572010
Lab Project ID: 1178572

Collection Date: 10/22/17 15:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	36.5		26.7	8.27	mg/Kg	1		11/04/17 18:23
Surrogates								
5a Androstane (surr)	81.2		50-150		%	1		11/04/17 18:23

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:23
Container ID: 1178572010-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.036 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	262		26.7	8.27	mg/Kg	1		11/04/17 18:23
Surrogates								
n-Triacontane-d62 (surr)	80.4		50-150		%	1		11/04/17 18:23

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:23
Container ID: 1178572010-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.036 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0282	U	0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Aroclor-1221	0.113	U	0.226	0.0699	mg/Kg	1		11/08/17 14:11
Aroclor-1232	0.0282	U	0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Aroclor-1242	0.0282	U	0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Aroclor-1248	0.0282	U	0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Aroclor-1254	0.0282	U	0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Aroclor-1260	0.291		0.0564	0.0169	mg/Kg	1		11/08/17 14:11
Surrogates								
Decachlorobiphenyl (surr)	96		60-125		%	1		11/08/17 14:11

Batch Information

Analytical Batch: XGC9949
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 14:11
Container ID: 1178572011-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.531 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
2-Methylnaphthalene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Acenaphthene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Acenaphthylene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Anthracene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Benzo(a)Anthracene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Benzo[a]pyrene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Benzo[b]Fluoranthene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Benzo[g,h,i]perylene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Benzo[k]fluoranthene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Chrysene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Dibenzo[a,h]anthracene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Fluoranthene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Fluorene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Indeno[1,2,3-c,d] pyrene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Naphthalene	0.0112	U	0.0224	0.00673	mg/Kg	1		11/18/17 21:34
Phenanthrene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Pyrene	0.0140	U	0.0280	0.00841	mg/Kg	1		11/18/17 21:34
Surrogates								
2-Methylnaphthalene-d10 (surr)	76		50-150		%	1		11/18/17 21:34
Fluoranthene-d10 (surr)	72.2		50-150		%	1		11/18/17 21:34

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 21:34
Container ID: 1178572011-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.656 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	48.2		22.1	6.86	mg/Kg	1		11/04/17 18:33
Surrogates								
5a Androstane (surr)	95.6		50-150		%	1		11/04/17 18:33

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:33
Container ID: 1178572011-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.624 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	250		22.1	6.86	mg/Kg	1		11/04/17 18:33
Surrogates								
n-Triacontane-d62 (surr)	82.6		50-150		%	1		11/04/17 18:33

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:33
Container ID: 1178572011-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.624 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.59	J	2.77	0.832	mg/Kg	1		11/07/17 05:03
Surrogates								
4-Bromofluorobenzene (surr)	81.9		50-150		%	1		11/07/17 05:03

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 05:03
Container ID: 1178572011-B

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:45
Prep Initial Wt./Vol.: 66.384 g
Prep Extract Vol: 32.613 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0111	U	0.0222	0.00688	mg/Kg	1		11/01/17 20:13
1,1,1-Trichloroethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,1,2,2-Tetrachloroethane	0.00695	U	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
1,1,2-Trichloroethane	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
1,1-Dichloroethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,1-Dichloroethene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,1-Dichloropropene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,2,3-Trichlorobenzene	0.0278	U	0.0555	0.0166	mg/Kg	1		11/01/17 20:13
1,2,3-Trichloropropane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,2,4-Trichlorobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,2,4-Trimethylbenzene	0.0278	U	0.0555	0.0166	mg/Kg	1		11/01/17 20:13
1,2-Dibromo-3-chloropropane	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
1,2-Dibromoethane	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
1,2-Dichlorobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,2-Dichloroethane	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
1,2-Dichloropropane	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
1,3,5-Trimethylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,3-Dichlorobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
1,3-Dichloropropane	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
1,4-Dichlorobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
2,2-Dichloropropane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
2-Butanone (MEK)	0.139	U	0.277	0.0866	mg/Kg	1		11/01/17 20:13
2-Chlorotoluene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
2-Hexanone	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
4-Chlorotoluene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
4-Isopropyltoluene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
4-Methyl-2-pentanone (MIBK)	0.139	U	0.277	0.0866	mg/Kg	1		11/01/17 20:13
Benzene	0.00805	J	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
Bromobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Bromochloromethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Bromodichloromethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Bromoform	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Bromomethane	0.111	U	0.222	0.0688	mg/Kg	1		11/01/17 20:13
Carbon disulfide	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
Carbon tetrachloride	0.00695	U	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
Chlorobenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Chloroethane	0.111	U	0.222	0.0688	mg/Kg	1		11/01/17 20:13

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Chloromethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
cis-1,2-Dichloroethene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
cis-1,3-Dichloropropene	0.00695	U	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
Dibromochloromethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Dibromomethane	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Dichlorodifluoromethane	0.0278	U	0.0555	0.0166	mg/Kg	1		11/01/17 20:13
Ethylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Freon-113	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
Hexachlorobutadiene	0.0111	U	0.0222	0.00688	mg/Kg	1		11/01/17 20:13
Isopropylbenzene (Cumene)	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Methylene chloride	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
Methyl-t-butyl ether	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
Naphthalene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
n-Butylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
n-Propylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
o-Xylene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
P & M -Xylene	0.0278	U	0.0555	0.0166	mg/Kg	1		11/01/17 20:13
sec-Butylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Styrene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
tert-Butylbenzene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
Tetrachloroethene	0.00695	U	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
Toluene	0.359		0.0277	0.00866	mg/Kg	1		11/01/17 20:13
trans-1,2-Dichloroethene	0.0138	U	0.0277	0.00866	mg/Kg	1		11/01/17 20:13
trans-1,3-Dichloropropene	0.00695	U	0.0139	0.00433	mg/Kg	1		11/01/17 20:13
Trichloroethene	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
Trichlorofluoromethane	0.0278	U	0.0555	0.0166	mg/Kg	1		11/01/17 20:13
Vinyl acetate	0.0555	U	0.111	0.0344	mg/Kg	1		11/01/17 20:13
Vinyl chloride	0.00555	U	0.0111	0.00344	mg/Kg	1		11/01/17 20:13
Xylenes (total)	0.0416	U	0.0832	0.0253	mg/Kg	1		11/01/17 20:13
Surrogates								
1,2-Dichloroethane-D4 (surr)	102		71-136		%	1		11/01/17 20:13
4-Bromofluorobenzene (surr)	104		55-151		%	1		11/01/17 20:13
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 20:13

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CW-1**

Client Sample ID: **CW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572011
Lab Project ID: 1178572

Collection Date: 10/22/17 14:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.5
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 20:13
Container ID: 1178572011-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 14:45
Prep Initial Wt./Vol.: 66.384 g
Prep Extract Vol: 32.613 mL

Results of **CW-2**

Client Sample ID: **CW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572012
Lab Project ID: 1178572

Collection Date: 10/22/17 14:50
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0306	U	0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Aroclor-1221	0.122	U	0.244	0.0757	mg/Kg	1		11/08/17 14:26
Aroclor-1232	0.0306	U	0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Aroclor-1242	0.0306	U	0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Aroclor-1248	0.0306	U	0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Aroclor-1254	0.0306	U	0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Aroclor-1260	0.266		0.0611	0.0183	mg/Kg	1		11/08/17 14:26
Surrogates								
Decachlorobiphenyl (surr)	95		60-125		%	1		11/08/17 14:26

Batch Information

Analytical Batch: XGC9949
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 14:26
Container ID: 1178572012-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.708 g
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **GC-1**

Client Sample ID: **GC-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572013
Lab Project ID: 1178572

Collection Date: 10/22/17 16:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	10.4	U	20.8	6.44	mg/Kg	1		11/04/17 18:42
Surrogates								
5a Androstane (surr)	87		50-150		%	1		11/04/17 18:42

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:42
Container ID: 1178572013-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.063 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	26.0		20.8	6.44	mg/Kg	1		11/04/17 18:42
Surrogates								
n-Triacontane-d62 (surr)	95.3		50-150		%	1		11/04/17 18:42

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:42
Container ID: 1178572013-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.063 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-1**

Client Sample ID: **GC-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572013
Lab Project ID: 1178572

Collection Date: 10/22/17 16:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.901	J	1.30	0.391	mg/Kg	1		11/07/17 16:43
Surrogates								
4-Bromofluorobenzene (surr)	80.6		50-150		%	1		11/07/17 16:43

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 16:43
Container ID: 1178572013-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 16:05
Prep Initial Wt./Vol.: 118.123 g
Prep Extract Vol: 29.5918 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-1**

Client Sample ID: **GC-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572013
Lab Project ID: 1178572

Collection Date: 10/22/17 16:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.00520	U	0.0104	0.00323	mg/Kg	1		11/01/17 20:30
1,1,1-Trichloroethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,1,2,2-Tetrachloroethane	0.00326	U	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
1,1,2-Trichloroethane	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
1,1-Dichloroethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,1-Dichloroethene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,1-Dichloropropene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,2,3-Trichlorobenzene	0.0131	U	0.0261	0.00782	mg/Kg	1		11/01/17 20:30
1,2,3-Trichloropropane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,2,4-Trichlorobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,2,4-Trimethylbenzene	0.0131	U	0.0261	0.00782	mg/Kg	1		11/01/17 20:30
1,2-Dibromo-3-chloropropane	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
1,2-Dibromoethane	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
1,2-Dichlorobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,2-Dichloroethane	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
1,2-Dichloropropane	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
1,3,5-Trimethylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,3-Dichlorobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
1,3-Dichloropropane	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
1,4-Dichlorobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
2,2-Dichloropropane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
2-Butanone (MEK)	0.0650	U	0.130	0.0407	mg/Kg	1		11/01/17 20:30
2-Chlorotoluene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
2-Hexanone	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
4-Chlorotoluene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
4-Isopropyltoluene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
4-Methyl-2-pentanone (MIBK)	0.0650	U	0.130	0.0407	mg/Kg	1		11/01/17 20:30
Benzene	0.00417	J	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
Bromobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Bromochloromethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Bromodichloromethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Bromoform	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Bromomethane	0.0520	U	0.104	0.0323	mg/Kg	1		11/01/17 20:30
Carbon disulfide	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
Carbon tetrachloride	0.00326	U	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
Chlorobenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Chloroethane	0.0520	U	0.104	0.0323	mg/Kg	1		11/01/17 20:30

Results of **GC-1**

Client Sample ID: **GC-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572013
Lab Project ID: 1178572

Collection Date: 10/22/17 16:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Chloromethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
cis-1,2-Dichloroethene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
cis-1,3-Dichloropropene	0.00326	U	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
Dibromochloromethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Dibromomethane	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Dichlorodifluoromethane	0.0131	U	0.0261	0.00782	mg/Kg	1		11/01/17 20:30
Ethylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Freon-113	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
Hexachlorobutadiene	0.00520	U	0.0104	0.00323	mg/Kg	1		11/01/17 20:30
Isopropylbenzene (Cumene)	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Methylene chloride	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
Methyl-t-butyl ether	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
Naphthalene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
n-Butylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
n-Propylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
o-Xylene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
P & M -Xylene	0.0131	U	0.0261	0.00782	mg/Kg	1		11/01/17 20:30
sec-Butylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Styrene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
tert-Butylbenzene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
Tetrachloroethene	0.00326	U	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
Toluene	0.215		0.0130	0.00407	mg/Kg	1		11/01/17 20:30
trans-1,2-Dichloroethene	0.00650	U	0.0130	0.00407	mg/Kg	1		11/01/17 20:30
trans-1,3-Dichloropropene	0.00326	U	0.00652	0.00203	mg/Kg	1		11/01/17 20:30
Trichloroethene	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
Trichlorofluoromethane	0.0131	U	0.0261	0.00782	mg/Kg	1		11/01/17 20:30
Vinyl acetate	0.0261	U	0.0521	0.0162	mg/Kg	1		11/01/17 20:30
Vinyl chloride	0.00261	U	0.00521	0.00162	mg/Kg	1		11/01/17 20:30
Xylenes (total)	0.0196	U	0.0391	0.0119	mg/Kg	1		11/01/17 20:30
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.2		71-136		%	1		11/01/17 20:30
4-Bromofluorobenzene (surr)	115		55-151		%	1		11/01/17 20:30
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 20:30

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-1**

Client Sample ID: **GC-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572013
Lab Project ID: 1178572

Collection Date: 10/22/17 16:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 20:30
Container ID: 1178572013-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 16:05
Prep Initial Wt./Vol.: 118.123 g
Prep Extract Vol: 29.5918 mL

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
2-Methylnaphthalene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Acenaphthene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Acenaphthylene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Anthracene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Benzo(a)Anthracene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Benzo[a]pyrene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Benzo[b]Fluoranthene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Benzo[g,h,i]perylene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Benzo[k]fluoranthene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Chrysene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Dibenzo[a,h]anthracene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Fluoranthene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Fluorene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Indeno[1,2,3-c,d] pyrene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Naphthalene	0.0103	U	0.0206	0.00619	mg/Kg	1		11/18/17 21:54
Phenanthrene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Pyrene	0.0129	U	0.0258	0.00774	mg/Kg	1		11/18/17 21:54
Surrogates								
2-Methylnaphthalene-d10 (surr)	76.4		50-150		%	1		11/18/17 21:54
Fluoranthene-d10 (surr)	77.5		50-150		%	1		11/18/17 21:54

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 21:54
Container ID: 1178572014-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.778 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	10.3	U	20.6	6.39	mg/Kg	1		11/04/17 18:52
Surrogates								
5a Androstane (surr)	79.5		50-150		%	1		11/04/17 18:52

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 18:52
Container ID: 1178572014-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.399 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	18.3	J	20.6	6.39	mg/Kg	1		11/04/17 18:52
Surrogates								
n-Triacontane-d62 (surr)	83.8		50-150		%	1		11/04/17 18:52

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 18:52
Container ID: 1178572014-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.399 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.690	U	1.38	0.414	mg/Kg	1		11/07/17 17:01
Surrogates								
4-Bromofluorobenzene (surr)	80.3		50-150		%	1		11/07/17 17:01

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 17:01
Container ID: 1178572014-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 16:10
Prep Initial Wt./Vol.: 112.903 g
Prep Extract Vol: 29.8165 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.00550	U	0.0110	0.00342	mg/Kg	1		11/01/17 20:48
1,1,1-Trichloroethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,1,2,2-Tetrachloroethane	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
1,1,2-Trichloroethane	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
1,1-Dichloroethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,1-Dichloroethene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,1-Dichloropropene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,2,3-Trichlorobenzene	0.0138	U	0.0276	0.00828	mg/Kg	1		11/01/17 20:48
1,2,3-Trichloropropane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,2,4-Trichlorobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,2,4-Trimethylbenzene	0.0138	U	0.0276	0.00828	mg/Kg	1		11/01/17 20:48
1,2-Dibromo-3-chloropropane	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
1,2-Dibromoethane	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
1,2-Dichlorobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,2-Dichloroethane	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
1,2-Dichloropropane	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
1,3,5-Trimethylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,3-Dichlorobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
1,3-Dichloropropane	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
1,4-Dichlorobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
2,2-Dichloropropane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
2-Butanone (MEK)	0.0690	U	0.138	0.0430	mg/Kg	1		11/01/17 20:48
2-Chlorotoluene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
2-Hexanone	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
4-Chlorotoluene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
4-Isopropyltoluene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
4-Methyl-2-pentanone (MIBK)	0.0690	U	0.138	0.0430	mg/Kg	1		11/01/17 20:48
Benzene	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
Bromobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Bromochloromethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Bromodichloromethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Bromoform	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Bromomethane	0.0550	U	0.110	0.0342	mg/Kg	1		11/01/17 20:48
Carbon disulfide	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
Carbon tetrachloride	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
Chlorobenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Chloroethane	0.0550	U	0.110	0.0342	mg/Kg	1		11/01/17 20:48

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Chloromethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
cis-1,2-Dichloroethene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
cis-1,3-Dichloropropene	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
Dibromochloromethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Dibromomethane	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Dichlorodifluoromethane	0.0138	U	0.0276	0.00828	mg/Kg	1		11/01/17 20:48
Ethylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Freon-113	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
Hexachlorobutadiene	0.00550	U	0.0110	0.00342	mg/Kg	1		11/01/17 20:48
Isopropylbenzene (Cumene)	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Methylene chloride	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
Methyl-t-butyl ether	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
Naphthalene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
n-Butylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
n-Propylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
o-Xylene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
P & M -Xylene	0.0138	U	0.0276	0.00828	mg/Kg	1		11/01/17 20:48
sec-Butylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Styrene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
tert-Butylbenzene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
Tetrachloroethene	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
Toluene	0.0646		0.0138	0.00430	mg/Kg	1		11/01/17 20:48
trans-1,2-Dichloroethene	0.00690	U	0.0138	0.00430	mg/Kg	1		11/01/17 20:48
trans-1,3-Dichloropropene	0.00345	U	0.00690	0.00215	mg/Kg	1		11/01/17 20:48
Trichloroethene	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
Trichlorofluoromethane	0.0138	U	0.0276	0.00828	mg/Kg	1		11/01/17 20:48
Vinyl acetate	0.0276	U	0.0552	0.0171	mg/Kg	1		11/01/17 20:48
Vinyl chloride	0.00276	U	0.00552	0.00171	mg/Kg	1		11/01/17 20:48
Xylenes (total)	0.0207	U	0.0414	0.0126	mg/Kg	1		11/01/17 20:48
Surrogates								
1,2-Dichloroethane-D4 (surr)	99.6		71-136		%	1		11/01/17 20:48
4-Bromofluorobenzene (surr)	113		55-151		%	1		11/01/17 20:48
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 20:48

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J flagging is activated

Results of **GC-2**

Client Sample ID: **GC-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572014
Lab Project ID: 1178572

Collection Date: 10/22/17 16:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):95.7
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 20:48
Container ID: 1178572014-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 16:10
Prep Initial Wt./Vol.: 112.903 g
Prep Extract Vol: 29.8165 mL

Results of **PYR-1**

Client Sample ID: **PYR-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572015
Lab Project ID: 1178572

Collection Date: 10/22/17 17:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):93.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	88.6		85.0	26.3	mg/Kg	4		11/04/17 21:09
Surrogates								
5a Androstane (surr)	85.9		50-150		%	4		11/04/17 21:09

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 21:09
Container ID: 1178572015-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.328 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1170		85.0	26.3	mg/Kg	4		11/04/17 21:09
Surrogates								
n-Triacontane-d62 (surr)	110		50-150		%	4		11/04/17 21:09

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 21:09
Container ID: 1178572015-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.328 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-1**

Client Sample ID: **PYR-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572015
Lab Project ID: 1178572

Collection Date: 10/22/17 17:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):93.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.09	J	2.08	0.623	mg/Kg	1		11/07/17 17:20
Surrogates								
4-Bromofluorobenzene (surr)	79		50-150		%	1		11/07/17 17:20

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 17:20
Container ID: 1178572015-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:05
Prep Initial Wt./Vol.: 78.614 g
Prep Extract Vol: 30.3914 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-1**

Client Sample ID: **PYR-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572015
Lab Project ID: 1178572

Collection Date: 10/22/17 17:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):93.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.00830	U	0.0166	0.00515	mg/Kg	1		11/01/17 21:06
1,1,1-Trichloroethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,1,2,2-Tetrachloroethane	0.00520	U	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
1,1,2-Trichloroethane	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
1,1-Dichloroethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,1-Dichloroethene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,1-Dichloropropene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,2,3-Trichlorobenzene	0.0208	U	0.0415	0.0125	mg/Kg	1		11/01/17 21:06
1,2,3-Trichloropropane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,2,4-Trichlorobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,2,4-Trimethylbenzene	0.0208	U	0.0415	0.0125	mg/Kg	1		11/01/17 21:06
1,2-Dibromo-3-chloropropane	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
1,2-Dibromoethane	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
1,2-Dichlorobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,2-Dichloroethane	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
1,2-Dichloropropane	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
1,3,5-Trimethylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,3-Dichlorobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
1,3-Dichloropropane	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
1,4-Dichlorobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
2,2-Dichloropropane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
2-Butanone (MEK)	0.104	U	0.208	0.0647	mg/Kg	1		11/01/17 21:06
2-Chlorotoluene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
2-Hexanone	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
4-Chlorotoluene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
4-Isopropyltoluene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
4-Methyl-2-pentanone (MIBK)	0.104	U	0.208	0.0647	mg/Kg	1		11/01/17 21:06
Benzene	0.00498	J	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
Bromobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Bromochloromethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Bromodichloromethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Bromoform	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Bromomethane	0.0830	U	0.166	0.0515	mg/Kg	1		11/01/17 21:06
Carbon disulfide	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
Carbon tetrachloride	0.00520	U	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
Chlorobenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Chloroethane	0.0830	U	0.166	0.0515	mg/Kg	1		11/01/17 21:06

Results of **PYR-1**

Client Sample ID: **PYR-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572015
Lab Project ID: 1178572

Collection Date: 10/22/17 17:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):93.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Chloromethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
cis-1,2-Dichloroethene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
cis-1,3-Dichloropropene	0.00520	U	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
Dibromochloromethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Dibromomethane	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Dichlorodifluoromethane	0.0208	U	0.0415	0.0125	mg/Kg	1		11/01/17 21:06
Ethylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Freon-113	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
Hexachlorobutadiene	0.00830	U	0.0166	0.00515	mg/Kg	1		11/01/17 21:06
Isopropylbenzene (Cumene)	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Methylene chloride	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
Methyl-t-butyl ether	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
Naphthalene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
n-Butylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
n-Propylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
o-Xylene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
P & M -Xylene	0.0208	U	0.0415	0.0125	mg/Kg	1		11/01/17 21:06
sec-Butylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Styrene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
tert-Butylbenzene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
Tetrachloroethene	0.00520	U	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
Toluene	0.167		0.0208	0.00647	mg/Kg	1		11/01/17 21:06
trans-1,2-Dichloroethene	0.0104	U	0.0208	0.00647	mg/Kg	1		11/01/17 21:06
trans-1,3-Dichloropropene	0.00520	U	0.0104	0.00324	mg/Kg	1		11/01/17 21:06
Trichloroethene	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
Trichlorofluoromethane	0.0208	U	0.0415	0.0125	mg/Kg	1		11/01/17 21:06
Vinyl acetate	0.0415	U	0.0830	0.0257	mg/Kg	1		11/01/17 21:06
Vinyl chloride	0.00415	U	0.00830	0.00257	mg/Kg	1		11/01/17 21:06
Xylenes (total)	0.0312	U	0.0623	0.0189	mg/Kg	1		11/01/17 21:06
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 21:06
4-Bromofluorobenzene (surr)	111		55-151		%	1		11/01/17 21:06
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 21:06

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-1**

Client Sample ID: **PYR-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572015
Lab Project ID: 1178572

Collection Date: 10/22/17 17:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):93.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 21:06
Container ID: 1178572015-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:05
Prep Initial Wt./Vol.: 78.614 g
Prep Extract Vol: 30.3914 mL

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
2-Methylnaphthalene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Acenaphthene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Acenaphthylene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Anthracene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Benzo(a)Anthracene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Benzo[a]pyrene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Benzo[b]Fluoranthene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Benzo[g,h,i]perylene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Benzo[k]fluoranthene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Chrysene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Dibenzo[a,h]anthracene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Fluoranthene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Fluorene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Indeno[1,2,3-c,d] pyrene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Naphthalene	0.0102	U	0.0204	0.00613	mg/Kg	1		11/18/17 22:15
Phenanthrene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Pyrene	0.0127	U	0.0255	0.00766	mg/Kg	1		11/18/17 22:15
Surrogates								
2-Methylnaphthalene-d10 (surr)	77.6		50-150		%	1		11/18/17 22:15
Fluoranthene-d10 (surr)	80.2		50-150		%	1		11/18/17 22:15

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 22:15
Container ID: 1178572016-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.749 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	8.15	J	20.6	6.38	mg/Kg	1		11/04/17 19:02
Surrogates								
5a Androstane (surr)	77		50-150		%	1		11/04/17 19:02

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 19:02
Container ID: 1178572016-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.108 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	72.1		20.6	6.38	mg/Kg	1		11/04/17 19:02
Surrogates								
n-Triacontane-d62 (surr)	78.9		50-150		%	1		11/04/17 19:02

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 19:02
Container ID: 1178572016-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.108 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.770	U	1.54	0.461	mg/Kg	1		11/07/17 17:38
Surrogates								
4-Bromofluorobenzene (surr)	76.9		50-150		%	1		11/07/17 17:38

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 17:38
Container ID: 1178572016-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:10
Prep Initial Wt./Vol.: 94.114 g
Prep Extract Vol: 28.0127 mL

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.00615	U	0.0123	0.00381	mg/Kg	1		11/01/17 21:23
1,1,1-Trichloroethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,1,2,2-Tetrachloroethane	0.00384	U	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
1,1,2-Trichloroethane	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
1,1-Dichloroethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,1-Dichloroethene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,1-Dichloropropene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,2,3-Trichlorobenzene	0.0154	U	0.0307	0.00922	mg/Kg	1		11/01/17 21:23
1,2,3-Trichloropropane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,2,4-Trichlorobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,2,4-Trimethylbenzene	0.0154	U	0.0307	0.00922	mg/Kg	1		11/01/17 21:23
1,2-Dibromo-3-chloropropane	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
1,2-Dibromoethane	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
1,2-Dichlorobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,2-Dichloroethane	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
1,2-Dichloropropane	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
1,3,5-Trimethylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,3-Dichlorobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
1,3-Dichloropropane	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
1,4-Dichlorobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
2,2-Dichloropropane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
2-Butanone (MEK)	0.0770	U	0.154	0.0480	mg/Kg	1		11/01/17 21:23
2-Chlorotoluene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
2-Hexanone	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
4-Chlorotoluene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
4-Isopropyltoluene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
4-Methyl-2-pentanone (MIBK)	0.0770	U	0.154	0.0480	mg/Kg	1		11/01/17 21:23
Benzene	0.00246	J	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
Bromobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Bromochloromethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Bromodichloromethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Bromoform	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Bromomethane	0.0615	U	0.123	0.0381	mg/Kg	1		11/01/17 21:23
Carbon disulfide	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
Carbon tetrachloride	0.00384	U	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
Chlorobenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Chloroethane	0.0615	U	0.123	0.0381	mg/Kg	1		11/01/17 21:23

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Chloromethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
cis-1,2-Dichloroethene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
cis-1,3-Dichloropropene	0.00384	U	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
Dibromochloromethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Dibromomethane	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Dichlorodifluoromethane	0.0154	U	0.0307	0.00922	mg/Kg	1		11/01/17 21:23
Ethylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Freon-113	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
Hexachlorobutadiene	0.00615	U	0.0123	0.00381	mg/Kg	1		11/01/17 21:23
Isopropylbenzene (Cumene)	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Methylene chloride	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
Methyl-t-butyl ether	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
Naphthalene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
n-Butylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
n-Propylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
o-Xylene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
P & M -Xylene	0.0154	U	0.0307	0.00922	mg/Kg	1		11/01/17 21:23
sec-Butylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Styrene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
tert-Butylbenzene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
Tetrachloroethene	0.00384	U	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
Toluene	0.0549		0.0154	0.00480	mg/Kg	1		11/01/17 21:23
trans-1,2-Dichloroethene	0.00770	U	0.0154	0.00480	mg/Kg	1		11/01/17 21:23
trans-1,3-Dichloropropene	0.00384	U	0.00769	0.00240	mg/Kg	1		11/01/17 21:23
Trichloroethene	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
Trichlorofluoromethane	0.0154	U	0.0307	0.00922	mg/Kg	1		11/01/17 21:23
Vinyl acetate	0.0308	U	0.0615	0.0191	mg/Kg	1		11/01/17 21:23
Vinyl chloride	0.00308	U	0.00615	0.00191	mg/Kg	1		11/01/17 21:23
Xylenes (total)	0.0231	U	0.0461	0.0140	mg/Kg	1		11/01/17 21:23
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 21:23
4-Bromofluorobenzene (surr)	106		55-151		%	1		11/01/17 21:23
Toluene-d8 (surr)	100		85-116		%	1		11/01/17 21:23

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **PYR-2**

Client Sample ID: **PYR-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572016
Lab Project ID: 1178572

Collection Date: 10/22/17 17:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.8
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 21:23
Container ID: 1178572016-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:10
Prep Initial Wt./Vol.: 94.114 g
Prep Extract Vol: 28.0127 mL

Results of **SF-1**

Client Sample ID: **SF-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572017
Lab Project ID: 1178572

Collection Date: 10/22/17 17:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	14.3	J	20.7	6.41	mg/Kg	1		11/04/17 19:11
Surrogates								
5a Androstane (surr)	85.9		50-150		%	1		11/04/17 19:11

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 19:11
Container ID: 1178572017-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.104 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	76.1		20.7	6.41	mg/Kg	1		11/04/17 19:11
Surrogates								
n-Triacontane-d62 (surr)	83.3		50-150		%	1		11/04/17 19:11

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 19:11
Container ID: 1178572017-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.104 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-1**

Client Sample ID: **SF-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572017
Lab Project ID: 1178572

Collection Date: 10/22/17 17:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.3
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.624	J	1.75	0.525	mg/Kg	1		11/07/17 18:33
Surrogates								
4-Bromofluorobenzene (surr)	75.2		50-150		%	1		11/07/17 18:33

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 18:33
Container ID: 1178572017-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:35
Prep Initial Wt./Vol.: 83.253 g
Prep Extract Vol: 28.0678 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-1**

Client Sample ID: **SF-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572017
Lab Project ID: 1178572

Collection Date: 10/22/17 17:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.00700	U	0.0140	0.00434	mg/Kg	1		11/01/17 21:41
1,1,1-Trichloroethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,1,2,2-Tetrachloroethane	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
1,1,2-Trichloroethane	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
1,1-Dichloroethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,1-Dichloroethene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,1-Dichloropropene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,2,3-Trichlorobenzene	0.0175	U	0.0350	0.0105	mg/Kg	1		11/01/17 21:41
1,2,3-Trichloropropane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,2,4-Trichlorobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,2,4-Trimethylbenzene	0.0175	U	0.0350	0.0105	mg/Kg	1		11/01/17 21:41
1,2-Dibromo-3-chloropropane	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
1,2-Dibromoethane	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
1,2-Dichlorobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,2-Dichloroethane	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
1,2-Dichloropropane	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
1,3,5-Trimethylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,3-Dichlorobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
1,3-Dichloropropane	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
1,4-Dichlorobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
2,2-Dichloropropane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
2-Butanone (MEK)	0.0875	U	0.175	0.0546	mg/Kg	1		11/01/17 21:41
2-Chlorotoluene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
2-Hexanone	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
4-Chlorotoluene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
4-Isopropyltoluene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
4-Methyl-2-pentanone (MIBK)	0.0875	U	0.175	0.0546	mg/Kg	1		11/01/17 21:41
Benzene	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
Bromobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Bromochloromethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Bromodichloromethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Bromoform	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Bromomethane	0.0700	U	0.140	0.0434	mg/Kg	1		11/01/17 21:41
Carbon disulfide	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
Carbon tetrachloride	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
Chlorobenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Chloroethane	0.0700	U	0.140	0.0434	mg/Kg	1		11/01/17 21:41

Results of **SF-1**

Client Sample ID: **SF-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572017
Lab Project ID: 1178572

Collection Date: 10/22/17 17:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Chloromethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
cis-1,2-Dichloroethene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
cis-1,3-Dichloropropene	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
Dibromochloromethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Dibromomethane	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Dichlorodifluoromethane	0.0175	U	0.0350	0.0105	mg/Kg	1		11/01/17 21:41
Ethylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Freon-113	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
Hexachlorobutadiene	0.00700	U	0.0140	0.00434	mg/Kg	1		11/01/17 21:41
Isopropylbenzene (Cumene)	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Methylene chloride	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
Methyl-t-butyl ether	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
Naphthalene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
n-Butylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
n-Propylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
o-Xylene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
P & M -Xylene	0.0175	U	0.0350	0.0105	mg/Kg	1		11/01/17 21:41
sec-Butylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Styrene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
tert-Butylbenzene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
Tetrachloroethene	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
Toluene	0.0989		0.0175	0.00546	mg/Kg	1		11/01/17 21:41
trans-1,2-Dichloroethene	0.00875	U	0.0175	0.00546	mg/Kg	1		11/01/17 21:41
trans-1,3-Dichloropropene	0.00438	U	0.00875	0.00273	mg/Kg	1		11/01/17 21:41
Trichloroethene	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
Trichlorofluoromethane	0.0175	U	0.0350	0.0105	mg/Kg	1		11/01/17 21:41
Vinyl acetate	0.0350	U	0.0700	0.0217	mg/Kg	1		11/01/17 21:41
Vinyl chloride	0.00350	U	0.00700	0.00217	mg/Kg	1		11/01/17 21:41
Xylenes (total)	0.0262	U	0.0525	0.0160	mg/Kg	1		11/01/17 21:41
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 21:41
4-Bromofluorobenzene (surr)	105		55-151		%	1		11/01/17 21:41
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 21:41

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J flagging is activated

Results of **SF-1**

Client Sample ID: **SF-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572017
Lab Project ID: 1178572

Collection Date: 10/22/17 17:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):96.3
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 21:41
Container ID: 1178572017-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:35
Prep Initial Wt./Vol.: 83.253 g
Prep Extract Vol: 28.0678 mL

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
2-Methylnaphthalene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Acenaphthene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Acenaphthylene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Anthracene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Benzo(a)Anthracene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Benzo[a]pyrene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Benzo[b]Fluoranthene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Benzo[g,h,i]perylene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Benzo[k]fluoranthene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Chrysene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Dibenzo[a,h]anthracene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Fluoranthene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Fluorene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Indeno[1,2,3-c,d] pyrene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Naphthalene	0.0126	U	0.0252	0.00755	mg/Kg	1		11/18/17 23:16
Phenanthrene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Pyrene	0.0158	U	0.0315	0.00944	mg/Kg	1		11/18/17 23:16
Surrogates								
2-Methylnaphthalene-d10 (surr)	74.7		50-150		%	1		11/18/17 23:16
Fluoranthene-d10 (surr)	76.6		50-150		%	1		11/18/17 23:16

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 23:16
Container ID: 1178572018-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.742 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	31.8		25.4	7.87	mg/Kg	1		11/04/17 19:21
Surrogates								
5a Androstane (surr)	79.3		50-150		%	1		11/04/17 19:21

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 19:21
Container ID: 1178572018-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.071 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	227		25.4	7.87	mg/Kg	1		11/04/17 19:21
Surrogates								
n-Triacontane-d62 (surr)	76.1		50-150		%	1		11/04/17 19:21

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 19:21
Container ID: 1178572018-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.071 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.11	J	4.99	1.50	mg/Kg	1		11/07/17 18:52
Surrogates								
4-Bromofluorobenzene (surr)	67.2		50-150		%	1		11/07/17 18:52

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 18:52
Container ID: 1178572018-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:40
Prep Initial Wt./Vol.: 43.708 g
Prep Extract Vol: 34.3364 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0200	U	0.0400	0.0124	mg/Kg	1		11/01/17 21:58
1,1,1-Trichloroethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,1,2,2-Tetrachloroethane	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
1,1,2-Trichloroethane	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
1,1-Dichloroethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,1-Dichloroethene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,1-Dichloropropene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,2,3-Trichlorobenzene	0.0500	U	0.0999	0.0300	mg/Kg	1		11/01/17 21:58
1,2,3-Trichloropropane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,2,4-Trichlorobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,2,4-Trimethylbenzene	0.0500	U	0.0999	0.0300	mg/Kg	1		11/01/17 21:58
1,2-Dibromo-3-chloropropane	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
1,2-Dibromoethane	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
1,2-Dichlorobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,2-Dichloroethane	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
1,2-Dichloropropane	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
1,3,5-Trimethylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,3-Dichlorobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
1,3-Dichloropropane	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
1,4-Dichlorobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
2,2-Dichloropropane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
2-Butanone (MEK)	0.250	U	0.499	0.156	mg/Kg	1		11/01/17 21:58
2-Chlorotoluene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
2-Hexanone	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
4-Chlorotoluene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
4-Isopropyltoluene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
4-Methyl-2-pentanone (MIBK)	0.250	U	0.499	0.156	mg/Kg	1		11/01/17 21:58
Benzene	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
Bromobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Bromochloromethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Bromodichloromethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Bromoform	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Bromomethane	0.200	U	0.400	0.124	mg/Kg	1		11/01/17 21:58
Carbon disulfide	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
Carbon tetrachloride	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
Chlorobenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Chloroethane	0.200	U	0.400	0.124	mg/Kg	1		11/01/17 21:58

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J flagging is activated

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Chloromethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
cis-1,2-Dichloroethene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
cis-1,3-Dichloropropene	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
Dibromochloromethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Dibromomethane	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Dichlorodifluoromethane	0.0500	U	0.0999	0.0300	mg/Kg	1		11/01/17 21:58
Ethylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Freon-113	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
Hexachlorobutadiene	0.0200	U	0.0400	0.0124	mg/Kg	1		11/01/17 21:58
Isopropylbenzene (Cumene)	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Methylene chloride	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
Methyl-t-butyl ether	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
Naphthalene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
n-Butylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
n-Propylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
o-Xylene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
P & M -Xylene	0.0500	U	0.0999	0.0300	mg/Kg	1		11/01/17 21:58
sec-Butylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Styrene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
tert-Butylbenzene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
Tetrachloroethene	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
Toluene	0.183		0.0499	0.0156	mg/Kg	1		11/01/17 21:58
trans-1,2-Dichloroethene	0.0250	U	0.0499	0.0156	mg/Kg	1		11/01/17 21:58
trans-1,3-Dichloropropene	0.0125	U	0.0250	0.00779	mg/Kg	1		11/01/17 21:58
Trichloroethene	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
Trichlorofluoromethane	0.0500	U	0.0999	0.0300	mg/Kg	1		11/01/17 21:58
Vinyl acetate	0.100	U	0.200	0.0619	mg/Kg	1		11/01/17 21:58
Vinyl chloride	0.0100	U	0.0200	0.00619	mg/Kg	1		11/01/17 21:58
Xylenes (total)	0.0750	U	0.150	0.0456	mg/Kg	1		11/01/17 21:58
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.4		71-136		%	1		11/01/17 21:58
4-Bromofluorobenzene (surr)	93.6		55-151		%	1		11/01/17 21:58
Toluene-d8 (surr)	98.5		85-116		%	1		11/01/17 21:58

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **SF-2**

Client Sample ID: **SF-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572018
Lab Project ID: 1178572

Collection Date: 10/22/17 17:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 21:58
Container ID: 1178572018-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 17:40
Prep Initial Wt./Vol.: 43.708 g
Prep Extract Vol: 34.3364 mL

Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572019
Lab Project ID: 1178572

Collection Date: 10/22/17 18:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):75.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	12.8	J	26.2	8.13	mg/Kg	1		11/04/17 19:31
Surrogates								
5a Androstane (surr)	79.6		50-150		%	1		11/04/17 19:31

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 19:31
Container ID: 1178572019-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.193 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	80.6		26.2	8.13	mg/Kg	1		11/04/17 19:31
Surrogates								
n-Triacontane-d62 (surr)	80.8		50-150		%	1		11/04/17 19:31

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 19:31
Container ID: 1178572019-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.193 g
Prep Extract Vol: 1 mL

Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572019
Lab Project ID: 1178572

Collection Date: 10/22/17 18:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):75.8
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.40	U	4.81	1.44	mg/Kg	1		11/07/17 19:11
Surrogates								
4-Bromofluorobenzene (surr)	57.7		50-150		%	1		11/07/17 19:11

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 19:11
Container ID: 1178572019-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/22/17 18:15
Prep Initial Wt./Vol.: 51.248 g
Prep Extract Vol: 37.3959 mL

Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572019
Lab Project ID: 1178572

Collection Date: 10/22/17 18:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):75.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0193	U	0.0385	0.0119	mg/Kg	1		11/01/17 22:16
1,1,1-Trichloroethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,1,2,2-Tetrachloroethane	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
1,1,2-Trichloroethane	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
1,1-Dichloroethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,1-Dichloroethene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,1-Dichloropropene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,2,3-Trichlorobenzene	0.0481	U	0.0963	0.0289	mg/Kg	1		11/01/17 22:16
1,2,3-Trichloropropane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,2,4-Trichlorobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,2,4-Trimethylbenzene	0.0481	U	0.0963	0.0289	mg/Kg	1		11/01/17 22:16
1,2-Dibromo-3-chloropropane	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
1,2-Dibromoethane	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
1,2-Dichlorobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,2-Dichloroethane	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
1,2-Dichloropropane	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
1,3,5-Trimethylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,3-Dichlorobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
1,3-Dichloropropane	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
1,4-Dichlorobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
2,2-Dichloropropane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
2-Butanone (MEK)	0.240	U	0.481	0.150	mg/Kg	1		11/01/17 22:16
2-Chlorotoluene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
2-Hexanone	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
4-Chlorotoluene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
4-Isopropyltoluene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
4-Methyl-2-pentanone (MIBK)	0.240	U	0.481	0.150	mg/Kg	1		11/01/17 22:16
Benzene	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
Bromobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Bromochloromethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Bromodichloromethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Bromoform	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Bromomethane	0.193	U	0.385	0.119	mg/Kg	1		11/01/17 22:16
Carbon disulfide	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
Carbon tetrachloride	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
Chlorobenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Chloroethane	0.193	U	0.385	0.119	mg/Kg	1		11/01/17 22:16

Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572019
Lab Project ID: 1178572

Collection Date: 10/22/17 18:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):75.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Chloromethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
cis-1,2-Dichloroethene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
cis-1,3-Dichloropropene	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
Dibromochloromethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Dibromomethane	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Dichlorodifluoromethane	0.0481	U	0.0963	0.0289	mg/Kg	1		11/01/17 22:16
Ethylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Freon-113	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
Hexachlorobutadiene	0.0193	U	0.0385	0.0119	mg/Kg	1		11/01/17 22:16
Isopropylbenzene (Cumene)	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Methylene chloride	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
Methyl-t-butyl ether	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
Naphthalene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
n-Butylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
n-Propylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
o-Xylene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
P & M -Xylene	0.0481	U	0.0963	0.0289	mg/Kg	1		11/01/17 22:16
sec-Butylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Styrene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
tert-Butylbenzene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
Tetrachloroethene	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
Toluene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
trans-1,2-Dichloroethene	0.0240	U	0.0481	0.0150	mg/Kg	1		11/01/17 22:16
trans-1,3-Dichloropropene	0.0121	U	0.0241	0.00751	mg/Kg	1		11/01/17 22:16
Trichloroethene	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
Trichlorofluoromethane	0.0481	U	0.0963	0.0289	mg/Kg	1		11/01/17 22:16
Vinyl acetate	0.0965	U	0.193	0.0597	mg/Kg	1		11/01/17 22:16
Vinyl chloride	0.00965	U	0.0193	0.00597	mg/Kg	1		11/01/17 22:16
Xylenes (total)	0.0720	U	0.144	0.0439	mg/Kg	1		11/01/17 22:16
Surrogates								
1,2-Dichloroethane-D4 (surr)	102		71-136		%	1		11/01/17 22:16
4-Bromofluorobenzene (surr)	88.2		55-151		%	1		11/01/17 22:16
Toluene-d8 (surr)	99.4		85-116		%	1		11/01/17 22:16

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572019
Lab Project ID: 1178572

Collection Date: 10/22/17 18:15
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):75.8
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 22:16
Container ID: 1178572019-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/22/17 18:15
Prep Initial Wt./Vol.: 51.248 g
Prep Extract Vol: 37.3959 mL

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
2-Methylnaphthalene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Acenaphthene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Acenaphthylene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Anthracene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Benzo(a)Anthracene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Benzo[a]pyrene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Benzo[b]Fluoranthene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Benzo[g,h,i]perylene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Benzo[k]fluoranthene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Chrysene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Dibenzo[a,h]anthracene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Fluoranthene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Fluorene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Indeno[1,2,3-c,d] pyrene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Naphthalene	0.0133	U	0.0266	0.00798	mg/Kg	1		11/18/17 23:36
Phenanthrene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Pyrene	0.0167	U	0.0333	0.00998	mg/Kg	1		11/18/17 23:36
Surrogates								
2-Methylnaphthalene-d10 (surr)	76.4		50-150		%	1		11/18/17 23:36
Fluoranthene-d10 (surr)	76.7		50-150		%	1		11/18/17 23:36

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 23:36
Container ID: 1178572020-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.605 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	544		107	33.0	mg/Kg	4		11/04/17 21:19
Surrogates								
5a Androstane (surr)	91.3		50-150		%	4		11/04/17 21:19

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 21:19
Container ID: 1178572020-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.114 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	994		107	33.0	mg/Kg	4		11/04/17 21:19
Surrogates								
n-Triacontane-d62 (surr)	75.4		50-150		%	4		11/04/17 21:19

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 21:19
Container ID: 1178572020-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.114 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.07	J	4.07	1.22	mg/Kg	1		11/07/17 19:29
Surrogates								
4-Bromofluorobenzene (surr)	53.1		50-150		%	1		11/07/17 19:29

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 19:29
Container ID: 1178572020-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 13:55
Prep Initial Wt./Vol.: 70.021 g
Prep Extract Vol: 42.6242 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 22:34
1,1,1-Trichloroethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,1,2,2-Tetrachloroethane	0.0101	U	0.0203	0.00635	mg/Kg	1		11/01/17 22:34
1,1,2-Trichloroethane	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
1,1-Dichloroethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,1-Dichloroethene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,1-Dichloropropene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,2,3-Trichlorobenzene	0.0406	U	0.0813	0.0244	mg/Kg	1		11/01/17 22:34
1,2,3-Trichloropropane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,2,4-Trichlorobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,2,4-Trimethylbenzene	0.0406	U	0.0813	0.0244	mg/Kg	1		11/01/17 22:34
1,2-Dibromo-3-chloropropane	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
1,2-Dibromoethane	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
1,2-Dichlorobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,2-Dichloroethane	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
1,2-Dichloropropane	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
1,3,5-Trimethylbenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,3-Dichlorobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
1,3-Dichloropropane	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
1,4-Dichlorobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
2,2-Dichloropropane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
2-Butanone (MEK)	0.203	U	0.407	0.127	mg/Kg	1		11/01/17 22:34
2-Chlorotoluene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
2-Hexanone	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
4-Chlorotoluene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
4-Isopropyltoluene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
4-Methyl-2-pentanone (MIBK)	0.203	U	0.407	0.127	mg/Kg	1		11/01/17 22:34
Benzene	0.0476		0.0203	0.00635	mg/Kg	1		11/01/17 22:34
Bromobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Bromochloromethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Bromodichloromethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Bromoform	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Bromomethane	0.163	U	0.325	0.101	mg/Kg	1		11/01/17 22:34
Carbon disulfide	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
Carbon tetrachloride	0.0101	U	0.0203	0.00635	mg/Kg	1		11/01/17 22:34
Chlorobenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Chloroethane	0.163	U	0.325	0.101	mg/Kg	1		11/01/17 22:34

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Chloromethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
cis-1,2-Dichloroethene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
cis-1,3-Dichloropropene	0.0101	U	0.0203	0.00635	mg/Kg	1		11/01/17 22:34
Dibromochloromethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Dibromomethane	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Dichlorodifluoromethane	0.0406	U	0.0813	0.0244	mg/Kg	1		11/01/17 22:34
Ethylbenzene	0.0236	J	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Freon-113	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
Hexachlorobutadiene	0.0163	U	0.0325	0.0101	mg/Kg	1		11/01/17 22:34
Isopropylbenzene (Cumene)	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Methylene chloride	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
Methyl-t-butyl ether	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
Naphthalene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
n-Butylbenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
n-Propylbenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
o-Xylene	0.0289	J	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
P & M -Xylene	0.0870		0.0813	0.0244	mg/Kg	1		11/01/17 22:34
sec-Butylbenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Styrene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
tert-Butylbenzene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
Tetrachloroethene	0.0101	U	0.0203	0.00635	mg/Kg	1		11/01/17 22:34
Toluene	1.23		0.0407	0.0127	mg/Kg	1		11/01/17 22:34
trans-1,2-Dichloroethene	0.0204	U	0.0407	0.0127	mg/Kg	1		11/01/17 22:34
trans-1,3-Dichloropropene	0.0101	U	0.0203	0.00635	mg/Kg	1		11/01/17 22:34
Trichloroethene	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
Trichlorofluoromethane	0.0406	U	0.0813	0.0244	mg/Kg	1		11/01/17 22:34
Vinyl acetate	0.0815	U	0.163	0.0504	mg/Kg	1		11/01/17 22:34
Vinyl chloride	0.00815	U	0.0163	0.00504	mg/Kg	1		11/01/17 22:34
Xylenes (total)	0.116	J	0.122	0.0371	mg/Kg	1		11/01/17 22:34
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 22:34
4-Bromofluorobenzene (surr)	81.8		55-151		%	1		11/01/17 22:34
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 22:34

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-1**

Client Sample ID: **NCHS-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572020
Lab Project ID: 1178572

Collection Date: 10/23/17 13:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.8
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 22:34
Container ID: 1178572020-B

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/23/17 13:55
Prep Initial Wt./Vol.: 70.021 g
Prep Extract Vol: 42.6242 mL

Results of **NCHS-2**

Client Sample ID: **NCHS-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572021
Lab Project ID: 1178572

Collection Date: 10/23/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	234		24.5	7.59	mg/Kg	1		11/04/17 19:41
Surrogates								
5a Androstane (surr)	95.7		50-150		%	1		11/04/17 19:41

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 11/04/17 19:41
Container ID: 1178572021-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.173 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	362		24.5	7.59	mg/Kg	1		11/04/17 19:41
Surrogates								
n-Triacontane-d62 (surr)	90.7		50-150		%	1		11/04/17 19:41

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/04/17 19:41
Container ID: 1178572021-A

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/01/17 11:35
Prep Initial Wt./Vol.: 30.173 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-2**

Client Sample ID: **NCHS-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572021
Lab Project ID: 1178572

Collection Date: 10/23/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.19	J	3.57	1.07	mg/Kg	1		11/07/17 19:47
Surrogates								
4-Bromofluorobenzene (surr)	80.3		50-150		%	1		11/07/17 19:47

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 19:47
Container ID: 1178572021-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 14:00
Prep Initial Wt./Vol.: 63.661 g
Prep Extract Vol: 36.9364 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-2**

Client Sample ID: **NCHS-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572021
Lab Project ID: 1178572

Collection Date: 10/23/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0143	U	0.0286	0.00885	mg/Kg	1		11/01/17 16:57
1,1,1-Trichloroethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,1,2,2-Tetrachloroethane	0.00895	U	0.0179	0.00557	mg/Kg	1		11/01/17 16:57
1,1,2-Trichloroethane	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
1,1-Dichloroethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,1-Dichloroethene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,1-Dichloropropene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,2,3-Trichlorobenzene	0.0357	U	0.0714	0.0214	mg/Kg	1		11/01/17 16:57
1,2,3-Trichloropropane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,2,4-Trichlorobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,2,4-Trimethylbenzene	0.0357	U	0.0714	0.0214	mg/Kg	1		11/01/17 16:57
1,2-Dibromo-3-chloropropane	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
1,2-Dibromoethane	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
1,2-Dichlorobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,2-Dichloroethane	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
1,2-Dichloropropane	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
1,3,5-Trimethylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,3-Dichlorobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
1,3-Dichloropropane	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
1,4-Dichlorobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
2,2-Dichloropropane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
2-Butanone (MEK)	0.178	U	0.357	0.111	mg/Kg	1		11/01/17 16:57
2-Chlorotoluene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
2-Hexanone	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
4-Chlorotoluene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
4-Isopropyltoluene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
4-Methyl-2-pentanone (MIBK)	0.178	U	0.357	0.111	mg/Kg	1		11/01/17 16:57
Benzene	0.0211		0.0179	0.00557	mg/Kg	1		11/01/17 16:57
Bromobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Bromochloromethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Bromodichloromethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Bromoform	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Bromomethane	0.143	U	0.286	0.0885	mg/Kg	1		11/01/17 16:57
Carbon disulfide	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
Carbon tetrachloride	0.00895	U	0.0179	0.00557	mg/Kg	1		11/01/17 16:57
Chlorobenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Chloroethane	0.143	U	0.286	0.0885	mg/Kg	1		11/01/17 16:57

Results of **NCHS-2**

Client Sample ID: **NCHS-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572021
Lab Project ID: 1178572

Collection Date: 10/23/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Chloromethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
cis-1,2-Dichloroethene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
cis-1,3-Dichloropropene	0.00895	U	0.0179	0.00557	mg/Kg	1		11/01/17 16:57
Dibromochloromethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Dibromomethane	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Dichlorodifluoromethane	0.0357	U	0.0714	0.0214	mg/Kg	1		11/01/17 16:57
Ethylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Freon-113	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
Hexachlorobutadiene	0.0143	U	0.0286	0.00885	mg/Kg	1		11/01/17 16:57
Isopropylbenzene (Cumene)	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Methylene chloride	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
Methyl-t-butyl ether	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
Naphthalene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
n-Butylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
n-Propylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
o-Xylene	0.0136	J	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
P & M -Xylene	0.0375	J	0.0714	0.0214	mg/Kg	1		11/01/17 16:57
sec-Butylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Styrene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
tert-Butylbenzene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
Tetrachloroethene	0.00895	U	0.0179	0.00557	mg/Kg	1		11/01/17 16:57
Toluene	0.356		0.0357	0.0111	mg/Kg	1		11/01/17 16:57
trans-1,2-Dichloroethene	0.0179	U	0.0357	0.0111	mg/Kg	1		11/01/17 16:57
trans-1,3-Dichloropropene	0.00895	U	0.0179	0.00557	mg/Kg	1		11/01/17 16:57
Trichloroethene	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
Trichlorofluoromethane	0.0357	U	0.0714	0.0214	mg/Kg	1		11/01/17 16:57
Vinyl acetate	0.0715	U	0.143	0.0443	mg/Kg	1		11/01/17 16:57
Vinyl chloride	0.00715	U	0.0143	0.00443	mg/Kg	1		11/01/17 16:57
Xylenes (total)	0.0511	J	0.107	0.0326	mg/Kg	1		11/01/17 16:57
Surrogates								
1,2-Dichloroethane-D4 (surr)	103		71-136		%	1		11/01/17 16:57
4-Bromofluorobenzene (surr)	138		55-151		%	1		11/01/17 16:57
Toluene-d8 (surr)	100		85-116		%	1		11/01/17 16:57

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-2**

Client Sample ID: **NCHS-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572021
Lab Project ID: 1178572

Collection Date: 10/23/17 14:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 16:57
Container ID: 1178572021-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/23/17 14:00
Prep Initial Wt./Vol.: 63.661 g
Prep Extract Vol: 36.9364 mL

Results of **NCHS-3**

Client Sample ID: **NCHS-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572022
Lab Project ID: 1178572

Collection Date: 10/23/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	166		26.8	8.31	mg/Kg	1		11/03/17 20:17
Surrogates								
5a Androstane (surr)	84		50-150		%	1		11/03/17 20:17

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 20:17
Container ID: 1178572022-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.003 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	558		26.8	8.31	mg/Kg	1		11/03/17 20:17
Surrogates								
n-Triacontane-d62 (surr)	73.9		50-150		%	1		11/03/17 20:17

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 20:17
Container ID: 1178572022-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.003 g
Prep Extract Vol: 1 mL

Results of **NCHS-3**

Client Sample ID: **NCHS-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572022
Lab Project ID: 1178572

Collection Date: 10/23/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.6
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.87 U		3.73	1.12	mg/Kg	1		11/07/17 20:06
Surrogates								
4-Bromofluorobenzene (surr)	46.6	*	50-150		%	1		11/07/17 20:06

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 20:06
Container ID: 1178572022-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 14:05
Prep Initial Wt./Vol.: 82.581 g
Prep Extract Vol: 45.9695 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-3**

Client Sample ID: **NCHS-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572022
Lab Project ID: 1178572

Collection Date: 10/23/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0149	U	0.0298	0.00925	mg/Kg	1		11/01/17 17:13
1,1,1-Trichloroethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,1,2,2-Tetrachloroethane	0.00935	U	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
1,1,2-Trichloroethane	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
1,1-Dichloroethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,1-Dichloroethene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,1-Dichloropropene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,2,3-Trichlorobenzene	0.0373	U	0.0746	0.0224	mg/Kg	1		11/01/17 17:13
1,2,3-Trichloropropane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,2,4-Trichlorobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,2,4-Trimethylbenzene	0.0373	U	0.0746	0.0224	mg/Kg	1		11/01/17 17:13
1,2-Dibromo-3-chloropropane	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
1,2-Dibromoethane	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
1,2-Dichlorobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,2-Dichloroethane	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
1,2-Dichloropropane	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
1,3,5-Trimethylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,3-Dichlorobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
1,3-Dichloropropane	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
1,4-Dichlorobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
2,2-Dichloropropane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
2-Butanone (MEK)	0.187	U	0.373	0.116	mg/Kg	1		11/01/17 17:13
2-Chlorotoluene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
2-Hexanone	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
4-Chlorotoluene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
4-Isopropyltoluene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
4-Methyl-2-pentanone (MIBK)	0.187	U	0.373	0.116	mg/Kg	1		11/01/17 17:13
Benzene	0.00933	J	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
Bromobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Bromochloromethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Bromodichloromethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Bromoform	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Bromomethane	0.149	U	0.298	0.0925	mg/Kg	1		11/01/17 17:13
Carbon disulfide	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
Carbon tetrachloride	0.00935	U	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
Chlorobenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Chloroethane	0.149	U	0.298	0.0925	mg/Kg	1		11/01/17 17:13

Results of **NCHS-3**

Client Sample ID: **NCHS-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572022
Lab Project ID: 1178572

Collection Date: 10/23/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Chloromethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
cis-1,2-Dichloroethene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
cis-1,3-Dichloropropene	0.00935	U	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
Dibromochloromethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Dibromomethane	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Dichlorodifluoromethane	0.0373	U	0.0746	0.0224	mg/Kg	1		11/01/17 17:13
Ethylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Freon-113	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
Hexachlorobutadiene	0.0149	U	0.0298	0.00925	mg/Kg	1		11/01/17 17:13
Isopropylbenzene (Cumene)	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Methylene chloride	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
Methyl-t-butyl ether	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
Naphthalene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
n-Butylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
n-Propylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
o-Xylene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
P & M -Xylene	0.0373	U	0.0746	0.0224	mg/Kg	1		11/01/17 17:13
sec-Butylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Styrene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
tert-Butylbenzene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
Tetrachloroethene	0.00935	U	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
Toluene	0.186		0.0373	0.0116	mg/Kg	1		11/01/17 17:13
trans-1,2-Dichloroethene	0.0187	U	0.0373	0.0116	mg/Kg	1		11/01/17 17:13
trans-1,3-Dichloropropene	0.00935	U	0.0187	0.00582	mg/Kg	1		11/01/17 17:13
Trichloroethene	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
Trichlorofluoromethane	0.0373	U	0.0746	0.0224	mg/Kg	1		11/01/17 17:13
Vinyl acetate	0.0745	U	0.149	0.0463	mg/Kg	1		11/01/17 17:13
Vinyl chloride	0.00745	U	0.0149	0.00463	mg/Kg	1		11/01/17 17:13
Xylenes (total)	0.0560	U	0.112	0.0340	mg/Kg	1		11/01/17 17:13
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		71-136		%	1		11/01/17 17:13
4-Bromofluorobenzene (surr)	91.9		55-151		%	1		11/01/17 17:13
Toluene-d8 (surr)	98.3		85-116		%	1		11/01/17 17:13

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHS-3**

Client Sample ID: **NCHS-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572022
Lab Project ID: 1178572

Collection Date: 10/23/17 14:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):74.6
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:13
Container ID: 1178572022-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/23/17 14:05
Prep Initial Wt./Vol.: 82.581 g
Prep Extract Vol: 45.9695 mL

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.362		0.0306	0.00919	mg/Kg	1		11/18/17 23:57
2-Methylnaphthalene	0.555		0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Acenaphthene	0.0122	J	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Acenaphthylene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Anthracene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Benzo(a)Anthracene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Benzo[a]pyrene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Benzo[b]Fluoranthene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Benzo[g,h,i]perylene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Benzo[k]fluoranthene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Chrysene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Dibenzo[a,h]anthracene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Fluoranthene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Fluorene	0.0788		0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Indeno[1,2,3-c,d] pyrene	0.0153	U	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Naphthalene	2.89		0.245	0.0735	mg/Kg	10		11/22/17 02:02
Phenanthrene	0.0926		0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Pyrene	0.0174	J	0.0306	0.00919	mg/Kg	1		11/18/17 23:57
Surrogates								
2-Methylnaphthalene-d10 (surr)	74.7		50-150		%	1		11/18/17 23:57
Fluoranthene-d10 (surr)	71.8		50-150		%	1		11/18/17 23:57

Batch Information

Analytical Batch: XMS10554
Analytical Method: 8270D SIM (PAH)
Analyst: NRB
Analytical Date/Time: 11/22/17 02:02
Container ID: 1178572023-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.624 g
Prep Extract Vol: 5 mL

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/18/17 23:57
Container ID: 1178572023-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.624 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1240		97.9	30.3	mg/Kg	4		11/03/17 23:04
Surrogates								
5a Androstane (surr)	79.6		50-150		%	4		11/03/17 23:04

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 23:04
Container ID: 1178572023-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.203 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1200		97.9	30.3	mg/Kg	4		11/03/17 23:04
Surrogates								
n-Triacontane-d62 (surr)	118		50-150		%	4		11/03/17 23:04

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 23:04
Container ID: 1178572023-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.203 g
Prep Extract Vol: 1 mL

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	6690		345	103	mg/Kg	100		11/07/17 20:24
Surrogates								
4-Bromofluorobenzene (surr)	11200	*	50-150		%	100		11/07/17 20:24

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 20:24
Container ID: 1178572023-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:30
Prep Initial Wt./Vol.: 67.269 g
Prep Extract Vol: 37.643 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	1.38	U	2.76	0.854	mg/Kg	100		11/04/17 00:27
1,1,1-Trichloroethane	0.0320	J	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,1,2,2-Tetrachloroethane	0.00860	U	0.0172	0.00538	mg/Kg	1		11/01/17 17:29
1,1,2-Trichloroethane	0.690	U	1.38	0.427	mg/Kg	100		11/04/17 00:27
1,1-Dichloroethane	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,1-Dichloroethene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,1-Dichloropropene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,2,3-Trichlorobenzene	0.0345	U	0.0689	0.0207	mg/Kg	1		11/01/17 17:29
1,2,3-Trichloropropane	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,2,4-Trichlorobenzene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,2,4-Trimethylbenzene	186		6.89	2.07	mg/Kg	100		11/04/17 00:27
1,2-Dibromo-3-chloropropane	0.0690	U	0.138	0.0427	mg/Kg	1		11/01/17 17:29
1,2-Dibromoethane	0.690	U	1.38	0.427	mg/Kg	100		11/04/17 00:27
1,2-Dichlorobenzene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,2-Dichloroethane	0.00690	U	0.0138	0.00427	mg/Kg	1		11/01/17 17:29
1,2-Dichloropropane	0.00690	U	0.0138	0.00427	mg/Kg	1		11/01/17 17:29
1,3,5-Trimethylbenzene	65.1		3.45	1.08	mg/Kg	100		11/04/17 00:27
1,3-Dichlorobenzene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
1,3-Dichloropropane	0.690	U	1.38	0.427	mg/Kg	100		11/04/17 00:27
1,4-Dichlorobenzene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
2,2-Dichloropropane	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
2-Butanone (MEK)	0.172	U	0.345	0.108	mg/Kg	1		11/01/17 17:29
2-Chlorotoluene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
2-Hexanone	6.90	U	13.8	4.27	mg/Kg	100		11/04/17 00:27
4-Chlorotoluene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
4-Isopropyltoluene	19.5		3.45	1.08	mg/Kg	100		11/04/17 00:27
4-Methyl-2-pentanone (MIBK)	0.172	U	0.345	0.108	mg/Kg	1		11/01/17 17:29
Benzene	16.9		1.72	0.538	mg/Kg	100		11/04/17 00:27
Bromobenzene	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Bromochloromethane	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Bromodichloromethane	0.0173	U	0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Bromoform	1.73	U	3.45	1.08	mg/Kg	100		11/04/17 00:27
Bromomethane	0.138	U	0.276	0.0854	mg/Kg	1		11/01/17 17:29
Carbon disulfide	0.0690	U	0.138	0.0427	mg/Kg	1		11/01/17 17:29
Carbon tetrachloride	0.00860	U	0.0172	0.00538	mg/Kg	1		11/01/17 17:29
Chlorobenzene	1.73	U	3.45	1.08	mg/Kg	100		11/04/17 00:27
Chloroethane	0.138	U	0.276	0.0854	mg/Kg	1		11/01/17 17:29

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Chloromethane	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
cis-1,2-Dichloroethene	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
cis-1,3-Dichloropropene	0.00860 U		0.0172	0.00538	mg/Kg	1		11/01/17 17:29
Dibromochloromethane	1.73 U		3.45	1.08	mg/Kg	100		11/04/17 00:27
Dibromomethane	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Dichlorodifluoromethane	0.0345 U		0.0689	0.0207	mg/Kg	1		11/01/17 17:29
Ethylbenzene	242		3.45	1.08	mg/Kg	100		11/04/17 00:27
Freon-113	0.0690 U		0.138	0.0427	mg/Kg	1		11/01/17 17:29
Hexachlorobutadiene	0.0138 U		0.0276	0.00854	mg/Kg	1		11/01/17 17:29
Isopropylbenzene (Cumene)	37.6		3.45	1.08	mg/Kg	100		11/04/17 00:27
Methylene chloride	0.0690 U		0.138	0.0427	mg/Kg	1		11/01/17 17:29
Methyl-t-butyl ether	0.0690 U		0.138	0.0427	mg/Kg	1		11/01/17 17:29
Naphthalene	2.44		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
n-Butylbenzene	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
n-Propylbenzene	66.7		3.45	1.08	mg/Kg	100		11/04/17 00:27
o-Xylene	379		3.45	1.08	mg/Kg	100		11/04/17 00:27
P & M -Xylene	822		6.89	2.07	mg/Kg	100		11/04/17 00:27
sec-Butylbenzene	9.92		3.45	1.08	mg/Kg	100		11/04/17 00:27
Styrene	1.73 U		3.45	1.08	mg/Kg	100		11/04/17 00:27
tert-Butylbenzene	1.09		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
Tetrachloroethene	0.860 U		1.72	0.538	mg/Kg	100		11/04/17 00:27
Toluene	1060		17.2	5.38	mg/Kg	500		11/05/17 22:14
trans-1,2-Dichloroethene	0.0173 U		0.0345	0.0108	mg/Kg	1		11/01/17 17:29
trans-1,3-Dichloropropene	0.860 U		1.72	0.538	mg/Kg	100		11/04/17 00:27
Trichloroethene	0.00690 U		0.0138	0.00427	mg/Kg	1		11/01/17 17:29
Trichlorofluoromethane	0.0345 U		0.0689	0.0207	mg/Kg	1		11/01/17 17:29
Vinyl acetate	0.0690 U		0.138	0.0427	mg/Kg	1		11/01/17 17:29
Vinyl chloride	0.00690 U		0.0138	0.00427	mg/Kg	1		11/01/17 17:29
Xylenes (total)	1200		10.3	3.14	mg/Kg	100		11/04/17 00:27
Surrogates								
1,2-Dichloroethane-D4 (surr)	88		71-136		%	1		11/01/17 17:29
4-Bromofluorobenzene (surr)	173	*	55-151		%	1		11/01/17 17:29
Toluene-d8 (surr)	103		85-116		%	100		11/04/17 00:27

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-1**

Client Sample ID: **NCHW-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572023
Lab Project ID: 1178572

Collection Date: 10/23/17 16:30
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.2
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 00:27
Container ID: 1178572023-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:30
Prep Initial Wt./Vol.: 67.269 g
Prep Extract Vol: 37.643 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:29
Container ID: 1178572023-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:30
Prep Initial Wt./Vol.: 67.269 g
Prep Extract Vol: 37.643 mL

Analytical Batch: VMS17438
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/05/17 22:14
Container ID: 1178572023-B

Prep Batch: VXX31689
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:30
Prep Initial Wt./Vol.: 67.269 g
Prep Extract Vol: 37.643 mL

Results of **NCHW-2**

Client Sample ID: **NCHW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572024
Lab Project ID: 1178572

Collection Date: 10/23/17 16:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	86.2		24.7	7.64	mg/Kg	1		11/03/17 20:27
Surrogates								
5a Androstane (surr)	87.6		50-150		%	1		11/03/17 20:27

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 20:27
Container ID: 1178572024-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.055 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	135		24.7	7.64	mg/Kg	1		11/03/17 20:27
Surrogates								
n-Triacontane-d62 (surr)	105		50-150		%	1		11/03/17 20:27

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 20:27
Container ID: 1178572024-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.055 g
Prep Extract Vol: 1 mL

Results of **NCHW-2**

Client Sample ID: **NCHW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572024
Lab Project ID: 1178572

Collection Date: 10/23/17 16:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.0
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2090		399	120	mg/Kg	100		11/07/17 20:43
Surrogates								
4-Bromofluorobenzene (surr)	3590	*	50-150		%	100		11/07/17 20:43

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 20:43
Container ID: 1178572024-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:35
Prep Initial Wt./Vol.: 54.904 g
Prep Extract Vol: 35.4554 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-2**

Client Sample ID: **NCHW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572024
Lab Project ID: 1178572

Collection Date: 10/23/17 16:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0159	U	0.0319	0.00989	mg/Kg	1		11/01/17 17:45
1,1,1-Trichloroethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,1,2,2-Tetrachloroethane	0.00995	U	0.0199	0.00622	mg/Kg	1		11/01/17 17:45
1,1,2-Trichloroethane	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
1,1-Dichloroethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,1-Dichloroethene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,1-Dichloropropene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,2,3-Trichlorobenzene	0.0399	U	0.0798	0.0239	mg/Kg	1		11/01/17 17:45
1,2,3-Trichloropropane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,2,4-Trichlorobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,2,4-Trimethylbenzene	133		7.98	2.39	mg/Kg	100		11/04/17 00:44
1,2-Dibromo-3-chloropropane	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
1,2-Dibromoethane	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
1,2-Dichlorobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,2-Dichloroethane	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
1,2-Dichloropropane	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
1,3,5-Trimethylbenzene	46.3		3.99	1.24	mg/Kg	100		11/04/17 00:44
1,3-Dichlorobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
1,3-Dichloropropane	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
1,4-Dichlorobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
2,2-Dichloropropane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
2-Butanone (MEK)	0.200	U	0.399	0.124	mg/Kg	1		11/01/17 17:45
2-Chlorotoluene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
2-Hexanone	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
4-Chlorotoluene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
4-Isopropyltoluene	5.05		0.0399	0.0124	mg/Kg	1		11/01/17 17:45
4-Methyl-2-pentanone (MIBK)	0.200	U	0.399	0.124	mg/Kg	1		11/01/17 17:45
Benzene	2.56		0.0199	0.00622	mg/Kg	1		11/01/17 17:45
Bromobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Bromochloromethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Bromodichloromethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Bromoform	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Bromomethane	0.160	U	0.319	0.0989	mg/Kg	1		11/01/17 17:45
Carbon disulfide	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
Carbon tetrachloride	0.00995	U	0.0199	0.00622	mg/Kg	1		11/01/17 17:45
Chlorobenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Chloroethane	0.160	U	0.319	0.0989	mg/Kg	1		11/01/17 17:45

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J flagging is activated

Results of **NCHW-2**

Client Sample ID: **NCHW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572024
Lab Project ID: 1178572

Collection Date: 10/23/17 16:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Chloromethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
cis-1,2-Dichloroethene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
cis-1,3-Dichloropropene	0.00995	U	0.0199	0.00622	mg/Kg	1		11/01/17 17:45
Dibromochloromethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Dibromomethane	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Dichlorodifluoromethane	0.0399	U	0.0798	0.0239	mg/Kg	1		11/01/17 17:45
Ethylbenzene	48.7		3.99	1.24	mg/Kg	100		11/04/17 00:44
Freon-113	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
Hexachlorobutadiene	0.0159	U	0.0319	0.00989	mg/Kg	1		11/01/17 17:45
Isopropylbenzene (Cumene)	16.2		3.99	1.24	mg/Kg	100		11/04/17 00:44
Methylene chloride	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
Methyl-t-butyl ether	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
Naphthalene	1.19		0.0399	0.0124	mg/Kg	1		11/01/17 17:45
n-Butylbenzene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
n-Propylbenzene	29.3		3.99	1.24	mg/Kg	100		11/04/17 00:44
o-Xylene	183		3.99	1.24	mg/Kg	100		11/04/17 00:44
P & M -Xylene	380		7.98	2.39	mg/Kg	100		11/04/17 00:44
sec-Butylbenzene	6.86		3.99	1.24	mg/Kg	100		11/04/17 00:44
Styrene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
tert-Butylbenzene	0.781		0.0399	0.0124	mg/Kg	1		11/01/17 17:45
Tetrachloroethene	0.00995	U	0.0199	0.00622	mg/Kg	1		11/01/17 17:45
Toluene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
trans-1,2-Dichloroethene	0.0199	U	0.0399	0.0124	mg/Kg	1		11/01/17 17:45
trans-1,3-Dichloropropene	0.00995	U	0.0199	0.00622	mg/Kg	1		11/01/17 17:45
Trichloroethene	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
Trichlorofluoromethane	0.0399	U	0.0798	0.0239	mg/Kg	1		11/01/17 17:45
Vinyl acetate	0.0800	U	0.160	0.0495	mg/Kg	1		11/01/17 17:45
Vinyl chloride	0.00800	U	0.0160	0.00495	mg/Kg	1		11/01/17 17:45
Xylenes (total)	563		12.0	3.64	mg/Kg	100		11/04/17 00:44
Surrogates								
1,2-Dichloroethane-D4 (surr)	97.4		71-136		%	1		11/01/17 17:45
4-Bromofluorobenzene (surr)	193	*	55-151		%	1		11/01/17 17:45
Toluene-d8 (surr)	86		85-116		%	1		11/01/17 17:45

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J flagging is activated

Results of **NCHW-2**

Client Sample ID: **NCHW-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572024
Lab Project ID: 1178572

Collection Date: 10/23/17 16:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):81.0
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 00:44
Container ID: 1178572024-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:35
Prep Initial Wt./Vol.: 54.904 g
Prep Extract Vol: 35.4554 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:45
Container ID: 1178572024-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:35
Prep Initial Wt./Vol.: 54.904 g
Prep Extract Vol: 35.4554 mL

Results of **NCHW-12**

Client Sample ID: **NCHW-12**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572025
Lab Project ID: 1178572

Collection Date: 10/23/17 16:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	204		25.1	7.78	mg/Kg	1		11/03/17 20:38
Surrogates								
5a Androstane (surr)	63.9		50-150		%	1		11/03/17 20:38

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 20:38
Container ID: 1178572025-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.435 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	115		25.1	7.78	mg/Kg	1		11/03/17 20:38
Surrogates								
n-Triacontane-d62 (surr)	85.1		50-150		%	1		11/03/17 20:38

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 20:38
Container ID: 1178572025-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.435 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-12**

Client Sample ID: **NCHW-12**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572025
Lab Project ID: 1178572

Collection Date: 10/23/17 16:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1170		364	109	mg/Kg	100		11/07/17 21:01
Surrogates								
4-Bromofluorobenzene (surr)	2410	*	50-150		%	100		11/07/17 21:01

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/07/17 21:01
Container ID: 1178572025-B

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:25
Prep Initial Wt./Vol.: 69.703 g
Prep Extract Vol: 39.9156 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-12**

Client Sample ID: **NCHW-12**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572025
Lab Project ID: 1178572

Collection Date: 10/23/17 16:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	1.46	U	2.91	0.903	mg/Kg	100		11/04/17 01:02
1,1,1-Trichloroethane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,1,2,2-Tetrachloroethane	0.00910	U	0.0182	0.00568	mg/Kg	1		11/01/17 18:01
1,1,2-Trichloroethane	0.730	U	1.46	0.452	mg/Kg	100		11/04/17 01:02
1,1-Dichloroethane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,1-Dichloroethene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,1-Dichloropropene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,2,3-Trichlorobenzene	0.0365	U	0.0729	0.0219	mg/Kg	1		11/01/17 18:01
1,2,3-Trichloropropane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,2,4-Trichlorobenzene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,2,4-Trimethylbenzene	65.6		7.29	2.19	mg/Kg	100		11/04/17 01:02
1,2-Dibromo-3-chloropropane	0.0730	U	0.146	0.0452	mg/Kg	1		11/01/17 18:01
1,2-Dibromoethane	0.730	U	1.46	0.452	mg/Kg	100		11/04/17 01:02
1,2-Dichlorobenzene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,2-Dichloroethane	0.00730	U	0.0146	0.00452	mg/Kg	1		11/01/17 18:01
1,2-Dichloropropane	0.00730	U	0.0146	0.00452	mg/Kg	1		11/01/17 18:01
1,3,5-Trimethylbenzene	24.1		3.64	1.14	mg/Kg	100		11/04/17 01:02
1,3-Dichlorobenzene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
1,3-Dichloropropane	0.730	U	1.46	0.452	mg/Kg	100		11/04/17 01:02
1,4-Dichlorobenzene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
2,2-Dichloropropane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
2-Butanone (MEK)	0.182	U	0.364	0.114	mg/Kg	1		11/01/17 18:01
2-Chlorotoluene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
2-Hexanone	7.30	U	14.6	4.52	mg/Kg	100		11/04/17 01:02
4-Chlorotoluene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
4-Isopropyltoluene	7.98		3.64	1.14	mg/Kg	100		11/04/17 01:02
4-Methyl-2-pentanone (MIBK)	0.182	U	0.364	0.114	mg/Kg	1		11/01/17 18:01
Benzene	1.80		0.0182	0.00568	mg/Kg	1		11/01/17 18:01
Bromobenzene	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Bromochloromethane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Bromodichloromethane	0.0182	U	0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Bromoform	1.82	U	3.64	1.14	mg/Kg	100		11/04/17 01:02
Bromomethane	0.145	U	0.291	0.0903	mg/Kg	1		11/01/17 18:01
Carbon disulfide	0.0730	U	0.146	0.0452	mg/Kg	1		11/01/17 18:01
Carbon tetrachloride	0.00910	U	0.0182	0.00568	mg/Kg	1		11/01/17 18:01
Chlorobenzene	1.82	U	3.64	1.14	mg/Kg	100		11/04/17 01:02
Chloroethane	0.145	U	0.291	0.0903	mg/Kg	1		11/01/17 18:01

Results of **NCHW-12**

Client Sample ID: **NCHW-12**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572025
Lab Project ID: 1178572

Collection Date: 10/23/17 16:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Chloromethane	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
cis-1,2-Dichloroethene	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
cis-1,3-Dichloropropene	0.00910 U		0.0182	0.00568	mg/Kg	1		11/01/17 18:01
Dibromochloromethane	1.82 U		3.64	1.14	mg/Kg	100		11/04/17 01:02
Dibromomethane	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Dichlorodifluoromethane	0.0365 U		0.0729	0.0219	mg/Kg	1		11/01/17 18:01
Ethylbenzene	30.3		3.64	1.14	mg/Kg	100		11/04/17 01:02
Freon-113	0.0730 U		0.146	0.0452	mg/Kg	1		11/01/17 18:01
Hexachlorobutadiene	0.0146 U		0.0291	0.00903	mg/Kg	1		11/01/17 18:01
Isopropylbenzene (Cumene)	9.58		3.64	1.14	mg/Kg	100		11/04/17 01:02
Methylene chloride	0.0730 U		0.146	0.0452	mg/Kg	1		11/01/17 18:01
Methyl-t-butyl ether	0.0730 U		0.146	0.0452	mg/Kg	1		11/01/17 18:01
Naphthalene	0.668		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
n-Butylbenzene	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
n-Propylbenzene	16.5		3.64	1.14	mg/Kg	100		11/04/17 01:02
o-Xylene	102		3.64	1.14	mg/Kg	100		11/04/17 01:02
P & M -Xylene	224		7.29	2.19	mg/Kg	100		11/04/17 01:02
sec-Butylbenzene	4.91		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Styrene	1.82 U		3.64	1.14	mg/Kg	100		11/04/17 01:02
tert-Butylbenzene	0.384		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
Tetrachloroethene	0.910 U		1.82	0.568	mg/Kg	100		11/04/17 01:02
Toluene	160		3.64	1.14	mg/Kg	100		11/04/17 01:02
trans-1,2-Dichloroethene	0.0182 U		0.0364	0.0114	mg/Kg	1		11/01/17 18:01
trans-1,3-Dichloropropene	0.910 U		1.82	0.568	mg/Kg	100		11/04/17 01:02
Trichloroethene	0.00730 U		0.0146	0.00452	mg/Kg	1		11/01/17 18:01
Trichlorofluoromethane	0.0365 U		0.0729	0.0219	mg/Kg	1		11/01/17 18:01
Vinyl acetate	0.0730 U		0.146	0.0452	mg/Kg	1		11/01/17 18:01
Vinyl chloride	0.00730 U		0.0146	0.00452	mg/Kg	1		11/01/17 18:01
Xylenes (total)	326		10.9	3.32	mg/Kg	100		11/04/17 01:02
Surrogates								
1,2-Dichloroethane-D4 (surr)	90.5		71-136		%	1		11/01/17 18:01
4-Bromofluorobenzene (surr)	182	*	55-151		%	1		11/01/17 18:01
Toluene-d8 (surr)	102		85-116		%	100		11/04/17 01:02

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHW-12**

Client Sample ID: **NCHW-12**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572025
Lab Project ID: 1178572

Collection Date: 10/23/17 16:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):78.6
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:02
Container ID: 1178572025-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:25
Prep Initial Wt./Vol.: 69.703 g
Prep Extract Vol: 39.9156 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:01
Container ID: 1178572025-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/23/17 16:25
Prep Initial Wt./Vol.: 69.703 g
Prep Extract Vol: 39.9156 mL

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0216	J	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
2-Methylnaphthalene	0.0356		0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Acenaphthene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Acenaphthylene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Anthracene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Benzo(a)Anthracene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Benzo[a]pyrene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Benzo[b]Fluoranthene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Benzo[g,h,i]perylene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Benzo[k]fluoranthene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Chrysene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Dibenzo[a,h]anthracene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Fluoranthene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Fluorene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Indeno[1,2,3-c,d] pyrene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Naphthalene	0.0260		0.0235	0.00706	mg/Kg	1		11/19/17 00:17
Phenanthrene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Pyrene	0.0147	U	0.0294	0.00883	mg/Kg	1		11/19/17 00:17
Surrogates								
2-Methylnaphthalene-d10 (surr)	81.9		50-150		%	1		11/19/17 00:17
Fluoranthene-d10 (surr)	72.4		50-150		%	1		11/19/17 00:17

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/19/17 00:17
Container ID: 1178572026-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.949 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	444		24.0	7.43	mg/Kg	1		11/03/17 20:47
Surrogates								
5a Androstane (surr)	87.5		50-150		%	1		11/03/17 20:47

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 20:47
Container ID: 1178572026-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.042 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2220		240	74.3	mg/Kg	10		11/07/17 12:26
Surrogates								
n-Triacontane-d62 (surr)	81.1		50-150		%	10		11/07/17 12:26

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/07/17 12:26
Container ID: 1178572026-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.042 g
Prep Extract Vol: 1 mL

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	631		80.4	24.1	mg/Kg	25		11/18/17 09:59
Surrogates								
4-Bromofluorobenzene (surr)	38.5	*	50-150		%	25		11/18/17 09:59

Batch Information

Analytical Batch: VFC13995
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/18/17 09:59
Container ID: 1178572026-B

Prep Batch: VXX31741
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:55
Prep Initial Wt./Vol.: 67.837 g
Prep Extract Vol: 36.3423 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	12.9	U	25.7	7.98	mg/Kg	1000		11/04/17 01:20
1,1,1-Trichloroethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,1,2,2-Tetrachloroethane	0.00805	U	0.0161	0.00502	mg/Kg	1		11/01/17 18:17
1,1,2-Trichloroethane	6.45	U	12.9	3.99	mg/Kg	1000		11/04/17 01:20
1,1-Dichloroethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,1-Dichloroethene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,1-Dichloropropene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,2,3-Trichlorobenzene	0.0321	U	0.0643	0.0193	mg/Kg	1		11/01/17 18:17
1,2,3-Trichloropropane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,2,4-Trichlorobenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,2,4-Trimethylbenzene	0.378		0.0643	0.0193	mg/Kg	1		11/01/17 18:17
1,2-Dibromo-3-chloropropane	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
1,2-Dibromoethane	6.45	U	12.9	3.99	mg/Kg	1000		11/04/17 01:20
1,2-Dichlorobenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,2-Dichloroethane	0.00645	U	0.0129	0.00399	mg/Kg	1		11/01/17 18:17
1,2-Dichloropropane	0.00645	U	0.0129	0.00399	mg/Kg	1		11/01/17 18:17
1,3,5-Trimethylbenzene	0.142		0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,3-Dichlorobenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
1,3-Dichloropropane	6.45	U	12.9	3.99	mg/Kg	1000		11/04/17 01:20
1,4-Dichlorobenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
2,2-Dichloropropane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
2-Butanone (MEK)	0.134	J	0.322	0.100	mg/Kg	1		11/01/17 18:17
2-Chlorotoluene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
2-Hexanone	64.5	U	129	39.9	mg/Kg	1000		11/04/17 01:20
4-Chlorotoluene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
4-Isopropyltoluene	0.0251	J	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
4-Methyl-2-pentanone (MIBK)	0.161	U	0.322	0.100	mg/Kg	1		11/01/17 18:17
Benzene	0.338		0.0161	0.00502	mg/Kg	1		11/01/17 18:17
Bromobenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Bromochloromethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Bromodichloromethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Bromoform	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
Bromomethane	0.129	U	0.257	0.0798	mg/Kg	1		11/01/17 18:17
Carbon disulfide	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
Carbon tetrachloride	0.00805	U	0.0161	0.00502	mg/Kg	1		11/01/17 18:17
Chlorobenzene	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
Chloroethane	0.129	U	0.257	0.0798	mg/Kg	1		11/01/17 18:17

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Chloromethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
cis-1,2-Dichloroethene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
cis-1,3-Dichloropropene	0.00805	U	0.0161	0.00502	mg/Kg	1		11/01/17 18:17
Dibromochloromethane	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
Dibromomethane	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Dichlorodifluoromethane	0.0321	U	0.0643	0.0193	mg/Kg	1		11/01/17 18:17
Ethylbenzene	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
Freon-113	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
Hexachlorobutadiene	0.0129	U	0.0257	0.00798	mg/Kg	1		11/01/17 18:17
Isopropylbenzene (Cumene)	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
Methylene chloride	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
Methyl-t-butyl ether	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
Naphthalene	0.0264	J	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
n-Butylbenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
n-Propylbenzene	0.105		0.0322	0.0100	mg/Kg	1		11/01/17 18:17
o-Xylene	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
P & M -Xylene	32.1	U	64.3	19.3	mg/Kg	1000		11/04/17 01:20
sec-Butylbenzene	0.0360		0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Styrene	16.1	U	32.2	10.0	mg/Kg	1000		11/04/17 01:20
tert-Butylbenzene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
Tetrachloroethene	8.05	U	16.1	5.02	mg/Kg	1000		11/04/17 01:20
Toluene	3830		32.2	10.0	mg/Kg	1000		11/04/17 01:20
trans-1,2-Dichloroethene	0.0161	U	0.0322	0.0100	mg/Kg	1		11/01/17 18:17
trans-1,3-Dichloropropene	8.05	U	16.1	5.02	mg/Kg	1000		11/04/17 01:20
Trichloroethene	0.0235		0.0129	0.00399	mg/Kg	1		11/01/17 18:17
Trichlorofluoromethane	0.0321	U	0.0643	0.0193	mg/Kg	1		11/01/17 18:17
Vinyl acetate	0.0645	U	0.129	0.0399	mg/Kg	1		11/01/17 18:17
Vinyl chloride	0.00645	U	0.0129	0.00399	mg/Kg	1		11/01/17 18:17
Xylenes (total)	48.3	U	96.5	29.3	mg/Kg	1000		11/04/17 01:20
Surrogates								
1,2-Dichloroethane-D4 (surr)	111		71-136		%	1		11/01/17 18:17
4-Bromofluorobenzene (surr)	118		55-151		%	1		11/01/17 18:17
Toluene-d8 (surr)	101		85-116		%	1000		11/04/17 01:20

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-1**

Client Sample ID: **NCHE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572026
Lab Project ID: 1178572

Collection Date: 10/27/17 10:55
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):83.3
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:20
Container ID: 1178572026-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:55
Prep Initial Wt./Vol.: 67.837 g
Prep Extract Vol: 36.3423 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:17
Container ID: 1178572026-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:55
Prep Initial Wt./Vol.: 67.837 g
Prep Extract Vol: 36.3423 mL

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0123	J	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
2-Methylnaphthalene	0.0198	J	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Acenaphthene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Acenaphthylene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Anthracene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Benzo(a)Anthracene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Benzo[a]pyrene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Benzo[b]Fluoranthene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Benzo[g,h,i]perylene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Benzo[k]fluoranthene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Chrysene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Dibenzo[a,h]anthracene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Fluoranthene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Fluorene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Indeno[1,2,3-c,d] pyrene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Naphthalene	0.0152	J	0.0252	0.00757	mg/Kg	1		11/19/17 00:38
Phenanthrene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Pyrene	0.0158	U	0.0315	0.00946	mg/Kg	1		11/19/17 00:38
Surrogates								
2-Methylnaphthalene-d10 (surr)	78.2		50-150		%	1		11/19/17 00:38
Fluoranthene-d10 (surr)	75.8		50-150		%	1		11/19/17 00:38

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/19/17 00:38
Container ID: 1178572027-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.895 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	269		25.6	7.95	mg/Kg	1		11/03/17 20:57
Surrogates								
5a Androstane (surr)	84.6		50-150		%	1		11/03/17 20:57

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 20:57
Container ID: 1178572027-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.052 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1240		103	31.8	mg/Kg	4		11/07/17 12:36
Surrogates								
n-Triacontane-d62 (surr)	71.3		50-150		%	4		11/07/17 12:36

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/07/17 12:36
Container ID: 1178572027-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.052 g
Prep Extract Vol: 1 mL

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	6810		3670	1100	mg/Kg	1000		11/15/17 08:10
Surrogates								
4-Bromofluorobenzene (surr)	0	*	50-150		%	1000		11/15/17 08:10

Batch Information

Analytical Batch: VFC13990
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/15/17 08:10
Container ID: 1178572027-B

Prep Batch: VXX31724
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:45
Prep Initial Wt./Vol.: 71.247 g
Prep Extract Vol: 40.7507 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	14.7	U	29.4	9.11	mg/Kg	1000		11/04/17 01:37
1,1,1-Trichloroethane	0.0121	J	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,1,2,2-Tetrachloroethane	0.00920	U	0.0184	0.00573	mg/Kg	1		11/01/17 18:33
1,1,2-Trichloroethane	7.35	U	14.7	4.55	mg/Kg	1000		11/04/17 01:37
1,1-Dichloroethane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,1-Dichloroethene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,1-Dichloropropene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,2,3-Trichlorobenzene	0.0367	U	0.0734	0.0220	mg/Kg	1		11/01/17 18:33
1,2,3-Trichloropropane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,2,4-Trichlorobenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,2,4-Trimethylbenzene	0.115		0.0734	0.0220	mg/Kg	1		11/01/17 18:33
1,2-Dibromo-3-chloropropane	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
1,2-Dibromoethane	7.35	U	14.7	4.55	mg/Kg	1000		11/04/17 01:37
1,2-Dichlorobenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,2-Dichloroethane	0.00735	U	0.0147	0.00455	mg/Kg	1		11/01/17 18:33
1,2-Dichloropropane	0.00735	U	0.0147	0.00455	mg/Kg	1		11/01/17 18:33
1,3,5-Trimethylbenzene	0.0404		0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,3-Dichlorobenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
1,3-Dichloropropane	7.35	U	14.7	4.55	mg/Kg	1000		11/04/17 01:37
1,4-Dichlorobenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
2,2-Dichloropropane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
2-Butanone (MEK)	0.127	J	0.367	0.115	mg/Kg	1		11/01/17 18:33
2-Chlorotoluene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
2-Hexanone	73.5	U	147	45.5	mg/Kg	1000		11/04/17 01:37
4-Chlorotoluene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
4-Isopropyltoluene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
4-Methyl-2-pentanone (MIBK)	0.184	U	0.367	0.115	mg/Kg	1		11/01/17 18:33
Benzene	0.670		0.0184	0.00573	mg/Kg	1		11/01/17 18:33
Bromobenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Bromochloromethane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Bromodichloromethane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Bromoform	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
Bromomethane	0.147	U	0.294	0.0911	mg/Kg	1		11/01/17 18:33
Carbon disulfide	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
Carbon tetrachloride	0.00920	U	0.0184	0.00573	mg/Kg	1		11/01/17 18:33
Chlorobenzene	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
Chloroethane	0.147	U	0.294	0.0911	mg/Kg	1		11/01/17 18:33

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Chloromethane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
cis-1,2-Dichloroethene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
cis-1,3-Dichloropropene	0.00920	U	0.0184	0.00573	mg/Kg	1		11/01/17 18:33
Dibromochloromethane	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
Dibromomethane	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Dichlorodifluoromethane	0.0367	U	0.0734	0.0220	mg/Kg	1		11/01/17 18:33
Ethylbenzene	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
Freon-113	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
Hexachlorobutadiene	0.0147	U	0.0294	0.00911	mg/Kg	1		11/01/17 18:33
Isopropylbenzene (Cumene)	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
Methylene chloride	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
Methyl-t-butyl ether	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
Naphthalene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
n-Butylbenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
n-Propylbenzene	0.0316	J	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
o-Xylene	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
P & M -Xylene	36.7	U	73.4	22.0	mg/Kg	1000		11/04/17 01:37
sec-Butylbenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Styrene	18.4	U	36.7	11.5	mg/Kg	1000		11/04/17 01:37
tert-Butylbenzene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
Tetrachloroethene	9.20	U	18.4	5.73	mg/Kg	1000		11/04/17 01:37
Toluene	5780		36.7	11.5	mg/Kg	1000		11/04/17 01:37
trans-1,2-Dichloroethene	0.0184	U	0.0367	0.0115	mg/Kg	1		11/01/17 18:33
trans-1,3-Dichloropropene	9.20	U	18.4	5.73	mg/Kg	1000		11/04/17 01:37
Trichloroethene	0.00735	U	0.0147	0.00455	mg/Kg	1		11/01/17 18:33
Trichlorofluoromethane	0.0367	U	0.0734	0.0220	mg/Kg	1		11/01/17 18:33
Vinyl acetate	0.0735	U	0.147	0.0455	mg/Kg	1		11/01/17 18:33
Vinyl chloride	0.00735	U	0.0147	0.00455	mg/Kg	1		11/01/17 18:33
Xylenes (total)	55.0	U	110	33.5	mg/Kg	1000		11/04/17 01:37
Surrogates								
1,2-Dichloroethane-D4 (surr)	103		71-136		%	1		11/01/17 18:33
4-Bromofluorobenzene (surr)	115		55-151		%	1		11/01/17 18:33
Toluene-d8 (surr)	103		85-116		%	1000		11/04/17 01:37

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-11**

Client Sample ID: **NCHE-11**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572027
Lab Project ID: 1178572

Collection Date: 10/27/17 10:45
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):77.9
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:37
Container ID: 1178572027-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:45
Prep Initial Wt./Vol.: 71.247 g
Prep Extract Vol: 40.7507 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:33
Container ID: 1178572027-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 10:45
Prep Initial Wt./Vol.: 71.247 g
Prep Extract Vol: 40.7507 mL

Results of **NCHE-2**

Client Sample ID: **NCHE-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572028
Lab Project ID: 1178572

Collection Date: 10/27/17 11:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	249		24.1	7.47	mg/Kg	1		11/03/17 21:06
Surrogates								
5a Androstane (surr)	92.5		50-150		%	1		11/03/17 21:06

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:06
Container ID: 1178572028-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.34 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	3120		241	74.7	mg/Kg	10		11/07/17 12:46
Surrogates								
n-Triacontane-d62 (surr)	93.3		50-150		%	10		11/07/17 12:46

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/07/17 12:46
Container ID: 1178572028-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.34 g
Prep Extract Vol: 1 mL

Results of **NCHE-2**

Client Sample ID: **NCHE-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572028
Lab Project ID: 1178572

Collection Date: 10/27/17 11:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	9720		3180	953	mg/Kg	1000		11/15/17 08:29
Surrogates								
4-Bromofluorobenzene (surr)	0	*	50-150		%	1000		11/15/17 08:29

Batch Information

Analytical Batch: VFC13990
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/15/17 08:29
Container ID: 1178572028-B

Prep Batch: VXX31724
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:00
Prep Initial Wt./Vol.: 73.074 g
Prep Extract Vol: 38.0919 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-2**

Client Sample ID: **NCHE-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572028
Lab Project ID: 1178572

Collection Date: 10/27/17 11:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	12.7	U	25.4	7.87	mg/Kg	1000		11/04/17 01:55
1,1,1-Trichloroethane	0.0267	J	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,1,2,2-Tetrachloroethane	0.00795	U	0.0159	0.00495	mg/Kg	1		11/01/17 18:49
1,1,2-Trichloroethane	6.35	U	12.7	3.94	mg/Kg	1000		11/04/17 01:55
1,1-Dichloroethane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,1-Dichloroethene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,1-Dichloropropene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,2,3-Trichlorobenzene	0.0318	U	0.0635	0.0191	mg/Kg	1		11/01/17 18:49
1,2,3-Trichloropropane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,2,4-Trichlorobenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,2,4-Trimethylbenzene	0.0845		0.0635	0.0191	mg/Kg	1		11/01/17 18:49
1,2-Dibromo-3-chloropropane	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
1,2-Dibromoethane	6.35	U	12.7	3.94	mg/Kg	1000		11/04/17 01:55
1,2-Dichlorobenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,2-Dichloroethane	0.00635	U	0.0127	0.00394	mg/Kg	1		11/01/17 18:49
1,2-Dichloropropane	0.00635	U	0.0127	0.00394	mg/Kg	1		11/01/17 18:49
1,3,5-Trimethylbenzene	0.0298	J	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,3-Dichlorobenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
1,3-Dichloropropane	6.35	U	12.7	3.94	mg/Kg	1000		11/04/17 01:55
1,4-Dichlorobenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
2,2-Dichloropropane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
2-Butanone (MEK)	0.172	J	0.318	0.0991	mg/Kg	1		11/01/17 18:49
2-Chlorotoluene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
2-Hexanone	63.5	U	127	39.4	mg/Kg	1000		11/04/17 01:55
4-Chlorotoluene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
4-Isopropyltoluene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
4-Methyl-2-pentanone (MIBK)	0.159	U	0.318	0.0991	mg/Kg	1		11/01/17 18:49
Benzene	1.22		0.0159	0.00495	mg/Kg	1		11/01/17 18:49
Bromobenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Bromochloromethane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Bromodichloromethane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Bromoform	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
Bromomethane	0.127	U	0.254	0.0787	mg/Kg	1		11/01/17 18:49
Carbon disulfide	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
Carbon tetrachloride	0.00795	U	0.0159	0.00495	mg/Kg	1		11/01/17 18:49
Chlorobenzene	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
Chloroethane	0.127	U	0.254	0.0787	mg/Kg	1		11/01/17 18:49

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-2**

Client Sample ID: **NCHE-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572028
Lab Project ID: 1178572

Collection Date: 10/27/17 11:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Chloromethane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
cis-1,2-Dichloroethene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
cis-1,3-Dichloropropene	0.00795	U	0.0159	0.00495	mg/Kg	1		11/01/17 18:49
Dibromochloromethane	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
Dibromomethane	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Dichlorodifluoromethane	0.0318	U	0.0635	0.0191	mg/Kg	1		11/01/17 18:49
Ethylbenzene	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
Freon-113	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
Hexachlorobutadiene	0.0127	U	0.0254	0.00787	mg/Kg	1		11/01/17 18:49
Isopropylbenzene (Cumene)	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
Methylene chloride	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
Methyl-t-butyl ether	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
Naphthalene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
n-Butylbenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
n-Propylbenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
o-Xylene	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
P & M -Xylene	31.8	U	63.5	19.1	mg/Kg	1000		11/04/17 01:55
sec-Butylbenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Styrene	15.9	U	31.8	9.91	mg/Kg	1000		11/04/17 01:55
tert-Butylbenzene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
Tetrachloroethene	7.95	U	15.9	4.95	mg/Kg	1000		11/04/17 01:55
Toluene	5250		31.8	9.91	mg/Kg	1000		11/04/17 01:55
trans-1,2-Dichloroethene	0.0159	U	0.0318	0.00991	mg/Kg	1		11/01/17 18:49
trans-1,3-Dichloropropene	7.95	U	15.9	4.95	mg/Kg	1000		11/04/17 01:55
Trichloroethene	0.00635	U	0.0127	0.00394	mg/Kg	1		11/01/17 18:49
Trichlorofluoromethane	0.0318	U	0.0635	0.0191	mg/Kg	1		11/01/17 18:49
Vinyl acetate	0.0635	U	0.127	0.0394	mg/Kg	1		11/01/17 18:49
Vinyl chloride	0.00635	U	0.0127	0.00394	mg/Kg	1		11/01/17 18:49
Xylenes (total)	47.6	U	95.3	29.0	mg/Kg	1000		11/04/17 01:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	115		71-136		%	1		11/01/17 18:49
4-Bromofluorobenzene (surr)	65.1		55-151		%	1		11/01/17 18:49
Toluene-d8 (surr)	102		85-116		%	1000		11/04/17 01:55

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-2**

Client Sample ID: **NCHE-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572028
Lab Project ID: 1178572

Collection Date: 10/27/17 11:00
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:55
Container ID: 1178572028-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:00
Prep Initial Wt./Vol.: 73.074 g
Prep Extract Vol: 38.0919 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 18:49
Container ID: 1178572028-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:00
Prep Initial Wt./Vol.: 73.074 g
Prep Extract Vol: 38.0919 mL

Results of **NCHE-3**

Client Sample ID: **NCHE-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572029
Lab Project ID: 1178572

Collection Date: 10/27/17 11:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	130		22.5	6.97	mg/Kg	1		11/03/17 21:16
Surrogates								
5a Androstane (surr)	89.1		50-150		%	1		11/03/17 21:16

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:16
Container ID: 1178572029-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.077 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	545		22.5	6.97	mg/Kg	1		11/03/17 21:16
Surrogates								
n-Triacontane-d62 (surr)	97.9		50-150		%	1		11/03/17 21:16

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 21:16
Container ID: 1178572029-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.077 g
Prep Extract Vol: 1 mL

Results of **NCHE-3**

Client Sample ID: **NCHE-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572029
Lab Project ID: 1178572

Collection Date: 10/27/17 11:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.7
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	37.5		5.99	1.80	mg/Kg	2		11/17/17 09:32
Surrogates								
4-Bromofluorobenzene (surr)	81.7		50-150		%	2		11/17/17 09:32

Batch Information

Analytical Batch: VFC13993
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/17/17 09:32
Container ID: 1178572029-B

Prep Batch: VXX31734
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:05
Prep Initial Wt./Vol.: 59.806 g
Prep Extract Vol: 31.7707 mL

SGS North America Inc.
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Results of **NCHE-3**

Client Sample ID: **NCHE-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572029
Lab Project ID: 1178572

Collection Date: 10/27/17 11:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.600	U	1.20	0.371	mg/Kg	50		11/04/17 01:08
1,1,1-Trichloroethane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,1,2,2-Tetrachloroethane	0.00750	U	0.0150	0.00467	mg/Kg	1		11/01/17 19:05
1,1,2-Trichloroethane	0.299	U	0.599	0.186	mg/Kg	50		11/04/17 01:08
1,1-Dichloroethane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,1-Dichloroethene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,1-Dichloropropene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,2,3-Trichlorobenzene	0.0300	U	0.0599	0.0180	mg/Kg	1		11/01/17 19:05
1,2,3-Trichloropropane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,2,4-Trichlorobenzene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,2,4-Trimethylbenzene	0.0461	J	0.0599	0.0180	mg/Kg	1		11/01/17 19:05
1,2-Dibromo-3-chloropropane	0.0600	U	0.120	0.0371	mg/Kg	1		11/01/17 19:05
1,2-Dibromoethane	0.299	U	0.599	0.186	mg/Kg	50		11/04/17 01:08
1,2-Dichlorobenzene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,2-Dichloroethane	0.00600	U	0.0120	0.00371	mg/Kg	1		11/01/17 19:05
1,2-Dichloropropane	0.00600	U	0.0120	0.00371	mg/Kg	1		11/01/17 19:05
1,3,5-Trimethylbenzene	0.0177	J	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,3-Dichlorobenzene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
1,3-Dichloropropane	0.299	U	0.599	0.186	mg/Kg	50		11/04/17 01:08
1,4-Dichlorobenzene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
2,2-Dichloropropane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
2-Butanone (MEK)	0.150	U	0.300	0.0935	mg/Kg	1		11/01/17 19:05
2-Chlorotoluene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
2-Hexanone	3.00	U	5.99	1.86	mg/Kg	50		11/04/17 01:08
4-Chlorotoluene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
4-Isopropyltoluene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
4-Methyl-2-pentanone (MIBK)	0.150	U	0.300	0.0935	mg/Kg	1		11/01/17 19:05
Benzene	0.00479	J	0.0150	0.00467	mg/Kg	1		11/01/17 19:05
Bromobenzene	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Bromochloromethane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Bromodichloromethane	0.0150	U	0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Bromoform	0.750	U	1.50	0.467	mg/Kg	50		11/04/17 01:08
Bromomethane	0.120	U	0.240	0.0743	mg/Kg	1		11/01/17 19:05
Carbon disulfide	0.0600	U	0.120	0.0371	mg/Kg	1		11/01/17 19:05
Carbon tetrachloride	0.00750	U	0.0150	0.00467	mg/Kg	1		11/01/17 19:05
Chlorobenzene	0.750	U	1.50	0.467	mg/Kg	50		11/04/17 01:08
Chloroethane	0.120	U	0.240	0.0743	mg/Kg	1		11/01/17 19:05

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J flagging is activated

Results of **NCHE-3**

Client Sample ID: **NCHE-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572029
Lab Project ID: 1178572

Collection Date: 10/27/17 11:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.7
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Chloromethane	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
cis-1,2-Dichloroethene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
cis-1,3-Dichloropropene	0.00750 U		0.0150	0.00467	mg/Kg	1		11/01/17 19:05
Dibromochloromethane	0.750 U		1.50	0.467	mg/Kg	50		11/04/17 01:08
Dibromomethane	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Dichlorodifluoromethane	0.0300 U		0.0599	0.0180	mg/Kg	1		11/01/17 19:05
Ethylbenzene	0.750 U		1.50	0.467	mg/Kg	50		11/04/17 01:08
Freon-113	0.0600 U		0.120	0.0371	mg/Kg	1		11/01/17 19:05
Hexachlorobutadiene	0.0120 U		0.0240	0.00743	mg/Kg	1		11/01/17 19:05
Isopropylbenzene (Cumene)	0.750 U		1.50	0.467	mg/Kg	50		11/04/17 01:08
Methylene chloride	0.0600 U		0.120	0.0371	mg/Kg	1		11/01/17 19:05
Methyl-t-butyl ether	0.0600 U		0.120	0.0371	mg/Kg	1		11/01/17 19:05
Naphthalene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
n-Butylbenzene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
n-Propylbenzene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
o-Xylene	0.750 U		1.50	0.467	mg/Kg	50		11/04/17 01:08
P & M -Xylene	1.50 U		3.00	0.899	mg/Kg	50		11/04/17 01:08
sec-Butylbenzene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Styrene	0.750 U		1.50	0.467	mg/Kg	50		11/04/17 01:08
tert-Butylbenzene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
Tetrachloroethene	0.375 U		0.749	0.234	mg/Kg	50		11/04/17 01:08
Toluene	19.9		1.50	0.467	mg/Kg	50		11/04/17 01:08
trans-1,2-Dichloroethene	0.0150 U		0.0300	0.00935	mg/Kg	1		11/01/17 19:05
trans-1,3-Dichloropropene	0.375 U		0.749	0.234	mg/Kg	50		11/04/17 01:08
Trichloroethene	0.00600 U		0.0120	0.00371	mg/Kg	1		11/01/17 19:05
Trichlorofluoromethane	0.0300 U		0.0599	0.0180	mg/Kg	1		11/01/17 19:05
Vinyl acetate	0.0600 U		0.120	0.0371	mg/Kg	1		11/01/17 19:05
Vinyl chloride	0.00600 U		0.0120	0.00371	mg/Kg	1		11/01/17 19:05
Xylenes (total)	2.25 U		4.49	1.37	mg/Kg	50		11/04/17 01:08
Surrogates								
1,2-Dichloroethane-D4 (surr)	95.1		71-136		%	1		11/01/17 19:05
4-Bromofluorobenzene (surr)	132		55-151		%	1		11/01/17 19:05
Toluene-d8 (surr)	107		85-116		%	50		11/04/17 01:08

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J flagging is activated

Results of **NCHE-3**

Client Sample ID: **NCHE-3**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572029
Lab Project ID: 1178572

Collection Date: 10/27/17 11:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):88.7
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17419
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:08
Container ID: 1178572029-B

Prep Batch: VXX31673
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:05
Prep Initial Wt./Vol.: 59.806 g
Prep Extract Vol: 31.7707 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:05
Container ID: 1178572029-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:05
Prep Initial Wt./Vol.: 59.806 g
Prep Extract Vol: 31.7707 mL

Results of **NCHE-4**

Client Sample ID: **NCHE-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572030
Lab Project ID: 1178572

Collection Date: 10/27/17 11:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	22.2	J	24.0	7.43	mg/Kg	1		11/03/17 21:26
Surrogates								
5a Androstane (surr)	88.5		50-150		%	1		11/03/17 21:26

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:26
Container ID: 1178572030-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.38 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	155		24.0	7.43	mg/Kg	1		11/03/17 21:26
Surrogates								
n-Triacontane-d62 (surr)	87.4		50-150		%	1		11/03/17 21:26

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 21:26
Container ID: 1178572030-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.38 g
Prep Extract Vol: 1 mL

Results of **NCHE-4**

Client Sample ID: **NCHE-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572030
Lab Project ID: 1178572

Collection Date: 10/27/17 11:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	12.4		5.83	1.75	mg/Kg	2		11/17/17 09:51
Surrogates								
4-Bromofluorobenzene (surr)	43	*	50-150		%	2		11/17/17 09:51

Batch Information

Analytical Batch: VFC13993
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/17/17 09:51
Container ID: 1178572030-B

Prep Batch: VXX31734
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:10
Prep Initial Wt./Vol.: 81.916 g
Prep Extract Vol: 39.3845 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-4**

Client Sample ID: **NCHE-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572030
Lab Project ID: 1178572

Collection Date: 10/27/17 11:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.585	U	1.17	0.362	mg/Kg	50		11/04/17 01:24
1,1,1-Trichloroethane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,1,2,2-Tetrachloroethane	0.00730	U	0.0146	0.00455	mg/Kg	1		11/01/17 19:21
1,1,2-Trichloroethane	0.291	U	0.583	0.181	mg/Kg	50		11/04/17 01:24
1,1-Dichloroethane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,1-Dichloroethene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,1-Dichloropropene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,2,3-Trichlorobenzene	0.0291	U	0.0583	0.0175	mg/Kg	1		11/01/17 19:21
1,2,3-Trichloropropane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,2,4-Trichlorobenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,2,4-Trimethylbenzene	0.0192	J	0.0583	0.0175	mg/Kg	1		11/01/17 19:21
1,2-Dibromo-3-chloropropane	0.0585	U	0.117	0.0362	mg/Kg	1		11/01/17 19:21
1,2-Dibromoethane	0.291	U	0.583	0.181	mg/Kg	50		11/04/17 01:24
1,2-Dichlorobenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,2-Dichloroethane	0.00585	U	0.0117	0.00362	mg/Kg	1		11/01/17 19:21
1,2-Dichloropropane	0.00585	U	0.0117	0.00362	mg/Kg	1		11/01/17 19:21
1,3,5-Trimethylbenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,3-Dichlorobenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
1,3-Dichloropropane	0.291	U	0.583	0.181	mg/Kg	50		11/04/17 01:24
1,4-Dichlorobenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
2,2-Dichloropropane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
2-Butanone (MEK)	0.146	U	0.292	0.0910	mg/Kg	1		11/01/17 19:21
2-Chlorotoluene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
2-Hexanone	2.92	U	5.83	1.81	mg/Kg	50		11/04/17 01:24
4-Chlorotoluene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
4-Isopropyltoluene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
4-Methyl-2-pentanone (MIBK)	0.146	U	0.292	0.0910	mg/Kg	1		11/01/17 19:21
Benzene	0.0157		0.0146	0.00455	mg/Kg	1		11/01/17 19:21
Bromobenzene	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Bromochloromethane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Bromodichloromethane	0.0146	U	0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Bromoform	0.730	U	1.46	0.455	mg/Kg	50		11/04/17 01:24
Bromomethane	0.117	U	0.233	0.0723	mg/Kg	1		11/01/17 19:21
Carbon disulfide	0.0585	U	0.117	0.0362	mg/Kg	1		11/01/17 19:21
Carbon tetrachloride	0.00730	U	0.0146	0.00455	mg/Kg	1		11/01/17 19:21
Chlorobenzene	0.730	U	1.46	0.455	mg/Kg	50		11/04/17 01:24
Chloroethane	0.117	U	0.233	0.0723	mg/Kg	1		11/01/17 19:21

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J flagging is activated

Results of **NCHE-4**

Client Sample ID: **NCHE-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572030
Lab Project ID: 1178572

Collection Date: 10/27/17 11:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Chloromethane	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
cis-1,2-Dichloroethene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
cis-1,3-Dichloropropene	0.00730 U		0.0146	0.00455	mg/Kg	1		11/01/17 19:21
Dibromochloromethane	0.730 U		1.46	0.455	mg/Kg	50		11/04/17 01:24
Dibromomethane	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Dichlorodifluoromethane	0.0291 U		0.0583	0.0175	mg/Kg	1		11/01/17 19:21
Ethylbenzene	0.730 U		1.46	0.455	mg/Kg	50		11/04/17 01:24
Freon-113	0.0585 U		0.117	0.0362	mg/Kg	1		11/01/17 19:21
Hexachlorobutadiene	0.0117 U		0.0233	0.00723	mg/Kg	1		11/01/17 19:21
Isopropylbenzene (Cumene)	0.730 U		1.46	0.455	mg/Kg	50		11/04/17 01:24
Methylene chloride	0.0585 U		0.117	0.0362	mg/Kg	1		11/01/17 19:21
Methyl-t-butyl ether	0.0585 U		0.117	0.0362	mg/Kg	1		11/01/17 19:21
Naphthalene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
n-Butylbenzene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
n-Propylbenzene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
o-Xylene	0.730 U		1.46	0.455	mg/Kg	50		11/04/17 01:24
P & M -Xylene	1.46 U		2.92	0.875	mg/Kg	50		11/04/17 01:24
sec-Butylbenzene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Styrene	0.730 U		1.46	0.455	mg/Kg	50		11/04/17 01:24
tert-Butylbenzene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
Tetrachloroethene	0.364 U		0.729	0.227	mg/Kg	50		11/04/17 01:24
Toluene	34.6		1.46	0.455	mg/Kg	50		11/04/17 01:24
trans-1,2-Dichloroethene	0.0146 U		0.0292	0.00910	mg/Kg	1		11/01/17 19:21
trans-1,3-Dichloropropene	0.364 U		0.729	0.227	mg/Kg	50		11/04/17 01:24
Trichloroethene	0.00585 U		0.0117	0.00362	mg/Kg	1		11/01/17 19:21
Trichlorofluoromethane	0.0291 U		0.0583	0.0175	mg/Kg	1		11/01/17 19:21
Vinyl acetate	0.0585 U		0.117	0.0362	mg/Kg	1		11/01/17 19:21
Vinyl chloride	0.00585 U		0.0117	0.00362	mg/Kg	1		11/01/17 19:21
Xylenes (total)	2.19 U		4.37	1.33	mg/Kg	50		11/04/17 01:24
Surrogates								
1,2-Dichloroethane-D4 (surr)	87.8		71-136		%	1		11/01/17 19:21
4-Bromofluorobenzene (surr)	152	*	55-151		%	1		11/01/17 19:21
Toluene-d8 (surr)	103		85-116		%	50		11/04/17 01:24

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHE-4**

Client Sample ID: **NCHE-4**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572030
Lab Project ID: 1178572

Collection Date: 10/27/17 11:10
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.4
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17419
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/04/17 01:24
Container ID: 1178572030-B

Prep Batch: VXX31673
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:10
Prep Initial Wt./Vol.: 81.916 g
Prep Extract Vol: 39.3845 mL

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:21
Container ID: 1178572030-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:10
Prep Initial Wt./Vol.: 81.916 g
Prep Extract Vol: 39.3845 mL

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
2-Methylnaphthalene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Acenaphthene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Acenaphthylene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Anthracene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Benzo(a)Anthracene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Benzo[a]pyrene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Benzo[b]Fluoranthene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Benzo[g,h,i]perylene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Benzo[k]fluoranthene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Chrysene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Dibenzo[a,h]anthracene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Fluoranthene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Fluorene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Indeno[1,2,3-c,d] pyrene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Naphthalene	0.0118	U	0.0237	0.00711	mg/Kg	1		11/19/17 00:58
Phenanthrene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Pyrene	0.0148	U	0.0296	0.00889	mg/Kg	1		11/19/17 00:58
Surrogates								
2-Methylnaphthalene-d10 (surr)	77.9		50-150		%	1		11/19/17 00:58
Fluoranthene-d10 (surr)	77.2		50-150		%	1		11/19/17 00:58

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/19/17 00:58
Container ID: 1178572031-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.584 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	100		23.6	7.30	mg/Kg	1		11/03/17 21:35
Surrogates								
5a Androstane (surr)	82.5		50-150		%	1		11/03/17 21:35

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:35
Container ID: 1178572031-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.302 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1010		94.2	29.2	mg/Kg	4		11/07/17 12:56
Surrogates								
n-Triacontane-d62 (surr)	78.6		50-150		%	4		11/07/17 12:56

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/07/17 12:56
Container ID: 1178572031-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.302 g
Prep Extract Vol: 1 mL

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.68	U	3.36	1.01	mg/Kg	1		11/16/17 07:08
Surrogates								
4-Bromofluorobenzene (surr)	67.2		50-150		%	1		11/16/17 07:08

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 07:08
Container ID: 1178572031-B

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:35
Prep Initial Wt./Vol.: 61.736 g
Prep Extract Vol: 34.8458 mL

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0135	U	0.0269	0.00833	mg/Kg	1		11/01/17 19:37
1,1,1-Trichloroethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,1,2,2-Tetrachloroethane	0.00840	U	0.0168	0.00524	mg/Kg	1		11/01/17 19:37
1,1,2-Trichloroethane	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
1,1-Dichloroethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,1-Dichloroethene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,1-Dichloropropene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,2,3-Trichlorobenzene	0.0336	U	0.0672	0.0201	mg/Kg	1		11/01/17 19:37
1,2,3-Trichloropropane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,2,4-Trichlorobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,2,4-Trimethylbenzene	0.0336	U	0.0672	0.0201	mg/Kg	1		11/01/17 19:37
1,2-Dibromo-3-chloropropane	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
1,2-Dibromoethane	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
1,2-Dichlorobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,2-Dichloroethane	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
1,2-Dichloropropane	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
1,3,5-Trimethylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,3-Dichlorobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
1,3-Dichloropropane	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
1,4-Dichlorobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
2,2-Dichloropropane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
2-Butanone (MEK)	0.168	U	0.336	0.105	mg/Kg	1		11/01/17 19:37
2-Chlorotoluene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
2-Hexanone	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
4-Chlorotoluene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
4-Isopropyltoluene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
4-Methyl-2-pentanone (MIBK)	0.168	U	0.336	0.105	mg/Kg	1		11/01/17 19:37
Benzene	0.00840	U	0.0168	0.00524	mg/Kg	1		11/03/17 22:23
Bromobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Bromochloromethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Bromodichloromethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Bromoform	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Bromomethane	0.135	U	0.269	0.0833	mg/Kg	1		11/01/17 19:37
Carbon disulfide	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
Carbon tetrachloride	0.00840	U	0.0168	0.00524	mg/Kg	1		11/01/17 19:37
Chlorobenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Chloroethane	0.135	U	0.269	0.0833	mg/Kg	1		11/01/17 19:37

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Chloromethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
cis-1,2-Dichloroethene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
cis-1,3-Dichloropropene	0.00840	U	0.0168	0.00524	mg/Kg	1		11/01/17 19:37
Dibromochloromethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Dibromomethane	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Dichlorodifluoromethane	0.0336	U	0.0672	0.0201	mg/Kg	1		11/01/17 19:37
Ethylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Freon-113	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
Hexachlorobutadiene	0.0135	U	0.0269	0.00833	mg/Kg	1		11/01/17 19:37
Isopropylbenzene (Cumene)	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Methylene chloride	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
Methyl-t-butyl ether	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
Naphthalene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
n-Butylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
n-Propylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
o-Xylene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/03/17 22:23
P & M -Xylene	0.0336	U	0.0672	0.0201	mg/Kg	1		11/03/17 22:23
sec-Butylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Styrene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
tert-Butylbenzene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
Tetrachloroethene	0.00840	U	0.0168	0.00524	mg/Kg	1		11/01/17 19:37
Toluene	0.173		0.0336	0.0105	mg/Kg	1		11/03/17 22:23
trans-1,2-Dichloroethene	0.0168	U	0.0336	0.0105	mg/Kg	1		11/01/17 19:37
trans-1,3-Dichloropropene	0.00840	U	0.0168	0.00524	mg/Kg	1		11/01/17 19:37
Trichloroethene	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
Trichlorofluoromethane	0.0336	U	0.0672	0.0201	mg/Kg	1		11/01/17 19:37
Vinyl acetate	0.0670	U	0.134	0.0416	mg/Kg	1		11/01/17 19:37
Vinyl chloride	0.00670	U	0.0134	0.00416	mg/Kg	1		11/01/17 19:37
Xylenes (total)	0.0505	U	0.101	0.0306	mg/Kg	1		11/03/17 22:23
Surrogates								
1,2-Dichloroethane-D4 (surr)	95		71-136		%	1		11/01/17 19:37
4-Bromofluorobenzene (surr)	131		55-151		%	1		11/01/17 19:37
Toluene-d8 (surr)	103		85-116		%	1		11/01/17 19:37

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-1**

Client Sample ID: **NCHN-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572031
Lab Project ID: 1178572

Collection Date: 10/27/17 11:35
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:37
Container ID: 1178572031-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:35
Prep Initial Wt./Vol.: 61.736 g
Prep Extract Vol: 34.8458 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 22:23
Container ID: 1178572031-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:35
Prep Initial Wt./Vol.: 61.736 g
Prep Extract Vol: 34.8458 mL

Results of **NCHN-2**

Client Sample ID: **NCHN-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572032
Lab Project ID: 1178572

Collection Date: 10/27/17 11:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	36.3		24.7	7.65	mg/Kg	1		11/03/17 21:45
Surrogates								
5a Androstane (surr)	79.4		50-150		%	1		11/03/17 21:45

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:45
Container ID: 1178572032-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.354 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	306		24.7	7.65	mg/Kg	1		11/03/17 21:45
Surrogates								
n-Triacontane-d62 (surr)	78		50-150		%	1		11/03/17 21:45

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 21:45
Container ID: 1178572032-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.354 g
Prep Extract Vol: 1 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-2**

Client Sample ID: **NCHN-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572032
Lab Project ID: 1178572

Collection Date: 10/27/17 11:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.00	U	4.00	1.20	mg/Kg	1		11/16/17 07:26
Surrogates								
4-Bromofluorobenzene (surr)	66.1		50-150		%	1		11/16/17 07:26

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 07:26
Container ID: 1178572032-B

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:40
Prep Initial Wt./Vol.: 56.666 g
Prep Extract Vol: 36.2912 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-2**

Client Sample ID: **NCHN-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572032
Lab Project ID: 1178572

Collection Date: 10/27/17 11:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0160	U	0.0320	0.00992	mg/Kg	1		11/01/17 19:53
1,1,1-Trichloroethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,1,2,2-Tetrachloroethane	0.0100	U	0.0200	0.00624	mg/Kg	1		11/01/17 19:53
1,1,2-Trichloroethane	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
1,1-Dichloroethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,1-Dichloroethene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,1-Dichloropropene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,2,3-Trichlorobenzene	0.0400	U	0.0800	0.0240	mg/Kg	1		11/01/17 19:53
1,2,3-Trichloropropane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,2,4-Trichlorobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,2,4-Trimethylbenzene	0.0400	U	0.0800	0.0240	mg/Kg	1		11/01/17 19:53
1,2-Dibromo-3-chloropropane	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
1,2-Dibromoethane	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
1,2-Dichlorobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,2-Dichloroethane	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
1,2-Dichloropropane	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
1,3,5-Trimethylbenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,3-Dichlorobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
1,3-Dichloropropane	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
1,4-Dichlorobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
2,2-Dichloropropane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
2-Butanone (MEK)	0.200	U	0.400	0.125	mg/Kg	1		11/01/17 19:53
2-Chlorotoluene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
2-Hexanone	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
4-Chlorotoluene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
4-Isopropyltoluene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
4-Methyl-2-pentanone (MIBK)	0.200	U	0.400	0.125	mg/Kg	1		11/01/17 19:53
Benzene	0.0176	J	0.0200	0.00624	mg/Kg	1		11/03/17 22:41
Bromobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Bromochloromethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Bromodichloromethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Bromoform	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Bromomethane	0.160	U	0.320	0.0992	mg/Kg	1		11/01/17 19:53
Carbon disulfide	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
Carbon tetrachloride	0.0100	U	0.0200	0.00624	mg/Kg	1		11/01/17 19:53
Chlorobenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Chloroethane	0.160	U	0.320	0.0992	mg/Kg	1		11/01/17 19:53

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-2**

Client Sample ID: **NCHN-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572032
Lab Project ID: 1178572

Collection Date: 10/27/17 11:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Chloromethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
cis-1,2-Dichloroethene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
cis-1,3-Dichloropropene	0.0100	U	0.0200	0.00624	mg/Kg	1		11/01/17 19:53
Dibromochloromethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Dibromomethane	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Dichlorodifluoromethane	0.0400	U	0.0800	0.0240	mg/Kg	1		11/01/17 19:53
Ethylbenzene	0.0168	J	0.0400	0.0125	mg/Kg	1		11/03/17 22:41
Freon-113	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
Hexachlorobutadiene	0.0160	U	0.0320	0.00992	mg/Kg	1		11/01/17 19:53
Isopropylbenzene (Cumene)	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Methylene chloride	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
Methyl-t-butyl ether	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
Naphthalene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
n-Butylbenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
n-Propylbenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
o-Xylene	0.0200	J	0.0400	0.0125	mg/Kg	1		11/03/17 22:41
P & M -Xylene	0.0596	J	0.0800	0.0240	mg/Kg	1		11/03/17 22:41
sec-Butylbenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Styrene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
tert-Butylbenzene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
Tetrachloroethene	0.0100	U	0.0200	0.00624	mg/Kg	1		11/01/17 19:53
Toluene	0.641		0.0400	0.0125	mg/Kg	1		11/03/17 22:41
trans-1,2-Dichloroethene	0.0200	U	0.0400	0.0125	mg/Kg	1		11/01/17 19:53
trans-1,3-Dichloropropene	0.0100	U	0.0200	0.00624	mg/Kg	1		11/01/17 19:53
Trichloroethene	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
Trichlorofluoromethane	0.0400	U	0.0800	0.0240	mg/Kg	1		11/01/17 19:53
Vinyl acetate	0.0800	U	0.160	0.0496	mg/Kg	1		11/01/17 19:53
Vinyl chloride	0.00800	U	0.0160	0.00496	mg/Kg	1		11/01/17 19:53
Xylenes (total)	0.0796	J	0.120	0.0365	mg/Kg	1		11/03/17 22:41
Surrogates								
1,2-Dichloroethane-D4 (surr)	117		71-136		%	1		11/01/17 19:53
4-Bromofluorobenzene (surr)	129		55-151		%	1		11/01/17 19:53
Toluene-d8 (surr)	100		85-116		%	1		11/03/17 22:41

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **NCHN-2**

Client Sample ID: **NCHN-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572032
Lab Project ID: 1178572

Collection Date: 10/27/17 11:40
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 19:53
Container ID: 1178572032-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:40
Prep Initial Wt./Vol.: 56.666 g
Prep Extract Vol: 36.2912 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 22:41
Container ID: 1178572032-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 11:40
Prep Initial Wt./Vol.: 56.666 g
Prep Extract Vol: 36.2912 mL

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
2-Methylnaphthalene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Acenaphthene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Acenaphthylene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Anthracene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Benzo(a)Anthracene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Benzo[a]pyrene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Benzo[b]Fluoranthene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Benzo[g,h,i]perylene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Benzo[k]fluoranthene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Chrysene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Dibenzo[a,h]anthracene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Fluoranthene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Fluorene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Indeno[1,2,3-c,d] pyrene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Naphthalene	0.0485	U	0.0970	0.0291	mg/Kg	4		11/19/17 01:18
Phenanthrene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Pyrene	0.0605	U	0.121	0.0364	mg/Kg	4		11/19/17 01:18
Surrogates								
2-Methylnaphthalene-d10 (surr)	85.1		50-150		%	4		11/19/17 01:18
Fluoranthene-d10 (surr)	77.1		50-150		%	4		11/19/17 01:18

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Analyst: DSH
Analytical Date/Time: 11/19/17 01:18
Container ID: 1178572033-A

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/01/17 09:14
Prep Initial Wt./Vol.: 22.576 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2690		121	37.5	mg/Kg	1		11/03/17 21:55
Surrogates								
5a Androstane (surr)	118		50-150		%	1		11/03/17 21:55

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 21:55
Container ID: 1178572033-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.172 g
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	11300		2420	750	mg/Kg	20		11/07/17 12:16
Surrogates								
n-Triacontane-d62 (surr)	0	*	50-150		%	20		11/07/17 12:16

Batch Information

Analytical Batch: XFC13956
Analytical Method: AK103
Analyst: CMS
Analytical Date/Time: 11/07/17 12:16
Container ID: 1178572033-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.172 g
Prep Extract Vol: 5 mL

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.65	U	3.30	0.989	mg/Kg	1		11/16/17 07:44
Surrogates								
4-Bromofluorobenzene (surr)	67.7		50-150		%	1		11/16/17 07:44

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 07:44
Container ID: 1178572033-B

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/27/17 12:20
Prep Initial Wt./Vol.: 68.708 g
Prep Extract Vol: 37.2306 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0132	U	0.0264	0.00817	mg/Kg	1		11/01/17 20:09
1,1,1-Trichloroethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,1,2,2-Tetrachloroethane	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
1,1,2-Trichloroethane	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
1,1-Dichloroethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,1-Dichloroethene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,1-Dichloropropene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,2,3-Trichlorobenzene	0.0330	U	0.0659	0.0198	mg/Kg	1		11/01/17 20:09
1,2,3-Trichloropropane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,2,4-Trichlorobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,2,4-Trimethylbenzene	0.0330	U	0.0659	0.0198	mg/Kg	1		11/01/17 20:09
1,2-Dibromo-3-chloropropane	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
1,2-Dibromoethane	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
1,2-Dichlorobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,2-Dichloroethane	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
1,2-Dichloropropane	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
1,3,5-Trimethylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,3-Dichlorobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
1,3-Dichloropropane	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
1,4-Dichlorobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
2,2-Dichloropropane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
2-Butanone (MEK)	0.165	U	0.330	0.103	mg/Kg	1		11/01/17 20:09
2-Chlorotoluene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
2-Hexanone	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
4-Chlorotoluene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
4-Isopropyltoluene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
4-Methyl-2-pentanone (MIBK)	0.165	U	0.330	0.103	mg/Kg	1		11/01/17 20:09
Benzene	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
Bromobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Bromochloromethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Bromodichloromethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Bromoform	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Bromomethane	0.132	U	0.264	0.0817	mg/Kg	1		11/01/17 20:09
Carbon disulfide	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
Carbon tetrachloride	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
Chlorobenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Chloroethane	0.132	U	0.264	0.0817	mg/Kg	1		11/01/17 20:09

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Chloromethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
cis-1,2-Dichloroethene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
cis-1,3-Dichloropropene	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
Dibromochloromethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Dibromomethane	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Dichlorodifluoromethane	0.0330	U	0.0659	0.0198	mg/Kg	1		11/01/17 20:09
Ethylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Freon-113	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
Hexachlorobutadiene	0.0132	U	0.0264	0.00817	mg/Kg	1		11/01/17 20:09
Isopropylbenzene (Cumene)	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Methylene chloride	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
Methyl-t-butyl ether	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
Naphthalene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
n-Butylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
n-Propylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
o-Xylene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/03/17 22:59
P & M -Xylene	0.0330	U	0.0659	0.0198	mg/Kg	1		11/03/17 22:59
sec-Butylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Styrene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
tert-Butylbenzene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
Tetrachloroethene	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
Toluene	0.142		0.0330	0.0103	mg/Kg	1		11/03/17 22:59
trans-1,2-Dichloroethene	0.0165	U	0.0330	0.0103	mg/Kg	1		11/01/17 20:09
trans-1,3-Dichloropropene	0.00825	U	0.0165	0.00514	mg/Kg	1		11/01/17 20:09
Trichloroethene	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
Trichlorofluoromethane	0.0419	J	0.0659	0.0198	mg/Kg	1		11/01/17 20:09
Vinyl acetate	0.0660	U	0.132	0.0409	mg/Kg	1		11/01/17 20:09
Vinyl chloride	0.00660	U	0.0132	0.00409	mg/Kg	1		11/01/17 20:09
Xylenes (total)	0.0495	U	0.0989	0.0301	mg/Kg	1		11/03/17 22:59
Surrogates								
1,2-Dichloroethane-D4 (surr)	94.4		71-136		%	1		11/01/17 20:09
4-Bromofluorobenzene (surr)	117		55-151		%	1		11/01/17 20:09
Toluene-d8 (surr)	109		85-116		%	1		11/01/17 20:09

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J flagging is activated

Results of **Loader-1**

Client Sample ID: **Loader-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572033
Lab Project ID: 1178572

Collection Date: 10/27/17 12:20
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):82.2
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 20:09
Container ID: 1178572033-B

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 10/27/17 12:20
Prep Initial Wt./Vol.: 68.708 g
Prep Extract Vol: 37.2306 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 22:59
Container ID: 1178572033-B

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/27/17 12:20
Prep Initial Wt./Vol.: 68.708 g
Prep Extract Vol: 37.2306 mL

Results of **Loader-2**

Client Sample ID: **Loader-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572034
Lab Project ID: 1178572

Collection Date: 10/27/17 12:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):76.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	76.7		26.2	8.13	mg/Kg	1		11/03/17 22:05
Surrogates								
5a Androstane (surr)	83.1		50-150		%	1		11/03/17 22:05

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/03/17 22:05
Container ID: 1178572034-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.125 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	383		26.2	8.13	mg/Kg	1		11/03/17 22:05
Surrogates								
n-Triacontane-d62 (surr)	79.1		50-150		%	1		11/03/17 22:05

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/03/17 22:05
Container ID: 1178572034-A

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/01/17 10:13
Prep Initial Wt./Vol.: 30.125 g
Prep Extract Vol: 1 mL

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J flagging is activated

Results of **Loader-2**

Client Sample ID: **Loader-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572034
Lab Project ID: 1178572

Collection Date: 10/27/17 12:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):76.0
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.38	U	4.77	1.43	mg/Kg	1		11/16/17 08:03
Surrogates								
4-Bromofluorobenzene (surr)	68.2		50-150		%	1		11/16/17 08:03

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 08:03
Container ID: 1178572034-B

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/27/17 12:25
Prep Initial Wt./Vol.: 51.557 g
Prep Extract Vol: 37.3848 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **Loader-2**

Client Sample ID: **Loader-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572034
Lab Project ID: 1178572

Collection Date: 10/27/17 12:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):76.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0191	U	0.0382	0.0118	mg/Kg	1		11/03/17 03:02
1,1,1-Trichloroethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,1,2,2-Tetrachloroethane	0.0120	U	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
1,1,2-Trichloroethane	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
1,1-Dichloroethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,1-Dichloroethene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,1-Dichloropropene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,2,3-Trichlorobenzene	0.0477	U	0.0954	0.0286	mg/Kg	1		11/03/17 03:02
1,2,3-Trichloropropane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,2,4-Trichlorobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,2,4-Trimethylbenzene	0.0477	U	0.0954	0.0286	mg/Kg	1		11/03/17 03:02
1,2-Dibromo-3-chloropropane	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
1,2-Dibromoethane	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
1,2-Dichlorobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,2-Dichloroethane	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
1,2-Dichloropropane	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
1,3,5-Trimethylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,3-Dichlorobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
1,3-Dichloropropane	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
1,4-Dichlorobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
2,2-Dichloropropane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
2-Butanone (MEK)	0.238	U	0.477	0.149	mg/Kg	1		11/03/17 03:02
2-Chlorotoluene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
2-Hexanone	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
4-Chlorotoluene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
4-Isopropyltoluene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
4-Methyl-2-pentanone (MIBK)	0.238	U	0.477	0.149	mg/Kg	1		11/03/17 03:02
Benzene	0.00859	J	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
Bromobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Bromochloromethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Bromodichloromethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Bromoform	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Bromomethane	0.191	U	0.382	0.118	mg/Kg	1		11/03/17 03:02
Carbon disulfide	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
Carbon tetrachloride	0.0120	U	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
Chlorobenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Chloroethane	0.191	U	0.382	0.118	mg/Kg	1		11/03/17 03:02

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Results of **Loader-2**

Client Sample ID: **Loader-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572034
Lab Project ID: 1178572

Collection Date: 10/27/17 12:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):76.0
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Chloromethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
cis-1,2-Dichloroethene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
cis-1,3-Dichloropropene	0.0120	U	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
Dibromochloromethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Dibromomethane	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Dichlorodifluoromethane	0.0477	U	0.0954	0.0286	mg/Kg	1		11/03/17 03:02
Ethylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Freon-113	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
Hexachlorobutadiene	0.0191	U	0.0382	0.0118	mg/Kg	1		11/03/17 03:02
Isopropylbenzene (Cumene)	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Methylene chloride	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
Methyl-t-butyl ether	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
Naphthalene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
n-Butylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
n-Propylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
o-Xylene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
P & M -Xylene	0.0477	U	0.0954	0.0286	mg/Kg	1		11/03/17 03:02
sec-Butylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Styrene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
tert-Butylbenzene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
Tetrachloroethene	0.0120	U	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
Toluene	0.325		0.0477	0.0149	mg/Kg	1		11/03/17 03:02
trans-1,2-Dichloroethene	0.0239	U	0.0477	0.0149	mg/Kg	1		11/03/17 03:02
trans-1,3-Dichloropropene	0.0120	U	0.0239	0.00744	mg/Kg	1		11/03/17 03:02
Trichloroethene	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
Trichlorofluoromethane	0.0477	U	0.0954	0.0286	mg/Kg	1		11/03/17 03:02
Vinyl acetate	0.0955	U	0.191	0.0592	mg/Kg	1		11/03/17 03:02
Vinyl chloride	0.00955	U	0.0191	0.00592	mg/Kg	1		11/03/17 03:02
Xylenes (total)	0.0715	U	0.143	0.0435	mg/Kg	1		11/03/17 03:02
Surrogates								
1,2-Dichloroethane-D4 (surr)	102		71-136		%	1		11/03/17 03:02
4-Bromofluorobenzene (surr)	100		55-151		%	1		11/03/17 03:02
Toluene-d8 (surr)	99.8		85-116		%	1		11/03/17 03:02

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J flagging is activated

Results of **Loader-2**

Client Sample ID: **Loader-2**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572034
Lab Project ID: 1178572

Collection Date: 10/27/17 12:25
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):76.0
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17410
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 03:02
Container ID: 1178572034-B

Prep Batch: VXX31663
Prep Method: SW5035A
Prep Date/Time: 10/27/17 12:25
Prep Initial Wt./Vol.: 51.557 g
Prep Extract Vol: 37.3848 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572035
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.27	U	2.54	0.762	mg/Kg	1		11/16/17 01:35
Surrogates								
4-Bromofluorobenzene (surr)	79.7		50-150		%	1		11/16/17 01:35

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 01:35
Container ID: 1178572035-A

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.198 g
Prep Extract Vol: 25 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572035
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0101	U	0.0203	0.00630	mg/Kg	1		11/01/17 16:59
1,1,1-Trichloroethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,1,2,2-Tetrachloroethane	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
1,1,2-Trichloroethane	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
1,1-Dichloroethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,1-Dichloroethene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,1-Dichloropropene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,2,3-Trichlorobenzene	0.0254	U	0.0508	0.0152	mg/Kg	1		11/01/17 16:59
1,2,3-Trichloropropane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,2,4-Trichlorobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,2,4-Trimethylbenzene	0.0254	U	0.0508	0.0152	mg/Kg	1		11/01/17 16:59
1,2-Dibromo-3-chloropropane	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
1,2-Dibromoethane	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
1,2-Dichlorobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,2-Dichloroethane	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
1,2-Dichloropropane	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
1,3,5-Trimethylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,3-Dichlorobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
1,3-Dichloropropane	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
1,4-Dichlorobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
2,2-Dichloropropane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
2-Butanone (MEK)	0.127	U	0.254	0.0793	mg/Kg	1		11/01/17 16:59
2-Chlorotoluene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
2-Hexanone	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
4-Chlorotoluene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
4-Isopropyltoluene	0.0132	J	0.0254	0.00793	mg/Kg	1		11/03/17 20:20
4-Methyl-2-pentanone (MIBK)	0.127	U	0.254	0.0793	mg/Kg	1		11/01/17 16:59
Benzene	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
Bromobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Bromochloromethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Bromodichloromethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Bromoform	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Bromomethane	0.102	U	0.203	0.0630	mg/Kg	1		11/01/17 16:59
Carbon disulfide	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
Carbon tetrachloride	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
Chlorobenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Chloroethane	0.102	U	0.203	0.0630	mg/Kg	1		11/01/17 16:59

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572035
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Chloromethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
cis-1,2-Dichloroethene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
cis-1,3-Dichloropropene	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
Dibromochloromethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Dibromomethane	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Dichlorodifluoromethane	0.0254	U	0.0508	0.0152	mg/Kg	1		11/01/17 16:59
Ethylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Freon-113	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
Hexachlorobutadiene	0.0101	U	0.0203	0.00630	mg/Kg	1		11/01/17 16:59
Isopropylbenzene (Cumene)	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Methylene chloride	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
Methyl-t-butyl ether	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
Naphthalene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
n-Butylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
n-Propylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
o-Xylene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
P & M -Xylene	0.0254	U	0.0508	0.0152	mg/Kg	1		11/01/17 16:59
sec-Butylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Styrene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
tert-Butylbenzene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
Tetrachloroethene	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
Toluene	0.0282		0.0254	0.00793	mg/Kg	1		11/03/17 20:20
trans-1,2-Dichloroethene	0.0127	U	0.0254	0.00793	mg/Kg	1		11/01/17 16:59
trans-1,3-Dichloropropene	0.00635	U	0.0127	0.00396	mg/Kg	1		11/01/17 16:59
Trichloroethene	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
Trichlorofluoromethane	0.0254	U	0.0508	0.0152	mg/Kg	1		11/01/17 16:59
Vinyl acetate	0.0510	U	0.102	0.0315	mg/Kg	1		11/01/17 16:59
Vinyl chloride	0.00510	U	0.0102	0.00315	mg/Kg	1		11/01/17 16:59
Xylenes (total)	0.0381	U	0.0762	0.0232	mg/Kg	1		11/01/17 16:59
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		71-136		%	1		11/01/17 16:59
4-Bromofluorobenzene (surr)	102		55-151		%	1		11/01/17 16:59
Toluene-d8 (surr)	98.5		85-116		%	1		11/01/17 16:59

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572035
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 16:59
Container ID: 1178572035-A

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.198 g
Prep Extract Vol: 25 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 20:20
Container ID: 1178572035-A

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.198 g
Prep Extract Vol: 25 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572036
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.853	J	2.52	0.756	mg/Kg	1		11/16/17 01:54
Surrogates								
4-Bromofluorobenzene (surr)	76.1		50-150		%	1		11/16/17 01:54

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Analyst: NRB
Analytical Date/Time: 11/16/17 01:54
Container ID: 1178572036-A

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.59 g
Prep Extract Vol: 25 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572036
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.0101	U	0.0202	0.00625	mg/Kg	1		11/01/17 17:16
1,1,1-Trichloroethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,1,2,2-Tetrachloroethane	0.00630	U	0.0126	0.00393	mg/Kg	1		11/01/17 17:16
1,1,2-Trichloroethane	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
1,1-Dichloroethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,1-Dichloroethene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,1-Dichloropropene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,2,3-Trichlorobenzene	0.0252	U	0.0504	0.0151	mg/Kg	1		11/01/17 17:16
1,2,3-Trichloropropane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,2,4-Trichlorobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,2,4-Trimethylbenzene	0.0252	U	0.0504	0.0151	mg/Kg	1		11/01/17 17:16
1,2-Dibromo-3-chloropropane	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
1,2-Dibromoethane	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
1,2-Dichlorobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,2-Dichloroethane	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
1,2-Dichloropropane	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
1,3,5-Trimethylbenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,3-Dichlorobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
1,3-Dichloropropane	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
1,4-Dichlorobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
2,2-Dichloropropane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
2-Butanone (MEK)	0.126	U	0.252	0.0786	mg/Kg	1		11/01/17 17:16
2-Chlorotoluene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
2-Hexanone	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
4-Chlorotoluene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
4-Isopropyltoluene	0.0413		0.0252	0.00786	mg/Kg	1		11/03/17 20:55
4-Methyl-2-pentanone (MIBK)	0.126	U	0.252	0.0786	mg/Kg	1		11/01/17 17:16
Benzene	0.0204		0.0126	0.00393	mg/Kg	1		11/03/17 20:55
Bromobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Bromochloromethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Bromodichloromethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Bromoform	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Bromomethane	0.101	U	0.202	0.0625	mg/Kg	1		11/01/17 17:16
Carbon disulfide	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
Carbon tetrachloride	0.00630	U	0.0126	0.00393	mg/Kg	1		11/01/17 17:16
Chlorobenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Chloroethane	0.101	U	0.202	0.0625	mg/Kg	1		11/01/17 17:16

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572036
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Chloromethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
cis-1,2-Dichloroethene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
cis-1,3-Dichloropropene	0.00630	U	0.0126	0.00393	mg/Kg	1		11/01/17 17:16
Dibromochloromethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Dibromomethane	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Dichlorodifluoromethane	0.0252	U	0.0504	0.0151	mg/Kg	1		11/01/17 17:16
Ethylbenzene	0.0129	J	0.0252	0.00786	mg/Kg	1		11/03/17 20:55
Freon-113	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
Hexachlorobutadiene	0.0101	U	0.0202	0.00625	mg/Kg	1		11/01/17 17:16
Isopropylbenzene (Cumene)	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Methylene chloride	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
Methyl-t-butyl ether	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
Naphthalene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
n-Butylbenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
n-Propylbenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
o-Xylene	0.0159	J	0.0252	0.00786	mg/Kg	1		11/03/17 20:55
P & M -Xylene	0.0476	J	0.0504	0.0151	mg/Kg	1		11/03/17 20:55
sec-Butylbenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Styrene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
tert-Butylbenzene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
Tetrachloroethene	0.00630	U	0.0126	0.00393	mg/Kg	1		11/01/17 17:16
Toluene	0.468		0.0252	0.00786	mg/Kg	1		11/03/17 20:55
trans-1,2-Dichloroethene	0.0126	U	0.0252	0.00786	mg/Kg	1		11/01/17 17:16
trans-1,3-Dichloropropene	0.00630	U	0.0126	0.00393	mg/Kg	1		11/01/17 17:16
Trichloroethene	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
Trichlorofluoromethane	0.0252	U	0.0504	0.0151	mg/Kg	1		11/01/17 17:16
Vinyl acetate	0.0505	U	0.101	0.0313	mg/Kg	1		11/01/17 17:16
Vinyl chloride	0.00505	U	0.0101	0.00313	mg/Kg	1		11/01/17 17:16
Xylenes (total)	0.0635	J	0.0756	0.0230	mg/Kg	1		11/03/17 20:55
Surrogates								
1,2-Dichloroethane-D4 (surr)	99.7		71-136		%	1		11/01/17 17:16
4-Bromofluorobenzene (surr)	105		55-151		%	1		11/01/17 17:16
Toluene-d8 (surr)	101		85-116		%	1		11/01/17 17:16

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572036
Lab Project ID: 1178572

Collection Date: 10/21/17 12:05
Received Date: 10/31/17 08:45
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/01/17 17:16
Container ID: 1178572036-A

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.59 g
Prep Extract Vol: 25 mL

Analytical Batch: VMS17420
Analytical Method: SW8260C
Analyst: NRO
Analytical Date/Time: 11/03/17 20:55
Container ID: 1178572036-A

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 10/21/17 12:05
Prep Initial Wt./Vol.: 49.59 g
Prep Extract Vol: 25 mL

Results of **FK-8**

Client Sample ID: **FK-8**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572037
Lab Project ID: 1178572

Collection Date: 10/22/17 15:05
Received Date: 11/02/17 10:33
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	9.00		1.21	0.374	mg/Kg	10		11/06/17 11:04
Barium	162		0.362	0.113	mg/Kg	10		11/06/17 11:04
Cadmium	0.162	J	0.241	0.0748	mg/Kg	10		11/06/17 11:04
Chromium	24.0		0.483	0.157	mg/Kg	10		11/06/17 11:04
Lead	21.4		0.241	0.0748	mg/Kg	10		11/06/17 11:04
Mercury	0.0779		0.0483	0.0145	mg/Kg	10		11/06/17 11:04
Selenium	0.380	J	1.21	0.374	mg/Kg	10		11/06/17 11:04
Silver	0.120	U	0.240	0.0745	mg/Kg	10		11/12/17 17:00

Batch Information

Analytical Batch: MMS9993
Analytical Method: SW6020A
Analyst: VDL
Analytical Date/Time: 11/06/17 11:04
Container ID: 1178572037-A

Prep Batch: MXX31200
Prep Method: SW3050B
Prep Date/Time: 11/03/17 11:34
Prep Initial Wt./Vol.: 1.062 g
Prep Extract Vol: 50 mL

Analytical Batch: MMS10000
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 11/12/17 17:00
Container ID: 1178572037-A

Prep Batch: MXX31216
Prep Method: SW3050B
Prep Date/Time: 11/09/17 08:29
Prep Initial Wt./Vol.: 1.067 g
Prep Extract Vol: 50 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-8**

Client Sample ID: **FK-8**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572037
Lab Project ID: 1178572

Collection Date: 10/22/17 15:05
Received Date: 11/02/17 10:33
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Aroclor-1221	0.127	U	0.254	0.0787	mg/Kg	1		11/08/17 14:41
Aroclor-1232	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Aroclor-1242	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Aroclor-1248	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Aroclor-1254	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Aroclor-1260	0.0318	U	0.0635	0.0190	mg/Kg	1		11/08/17 14:41
Surrogates								
Decachlorobiphenyl (surr)	97		60-125		%	1		11/08/17 14:41

Batch Information

Analytical Batch: XGC9949
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 11/08/17 14:41
Container ID: 1178572037-A

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/06/17 13:47
Prep Initial Wt./Vol.: 22.725 g
Prep Extract Vol: 5 mL

Print Date: 11/29/2017 8:43:22AM

J flagging is activated

Results of **FK-8**

Client Sample ID: **FK-8**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178572037
Lab Project ID: 1178572

Collection Date: 10/22/17 15:05
Received Date: 11/02/17 10:33
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	59.5		25.6	7.93	mg/Kg	1		11/08/17 03:21
Surrogates								
5a Androstane (surr)	88.8		50-150		%	1		11/08/17 03:21

Batch Information

Analytical Batch: XFC13959
Analytical Method: AK102
Analyst: JMG
Analytical Date/Time: 11/08/17 03:21
Container ID: 1178572037-A

Prep Batch: XXX38796
Prep Method: SW3550C
Prep Date/Time: 11/02/17 13:10
Prep Initial Wt./Vol.: 30.087 g
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	307		25.6	7.93	mg/Kg	1		11/08/17 03:21
Surrogates								
n-Triacontane-d62 (surr)	90.3		50-150		%	1		11/08/17 03:21

Batch Information

Analytical Batch: XFC13959
Analytical Method: AK103
Analyst: JMG
Analytical Date/Time: 11/08/17 03:21
Container ID: 1178572037-A

Prep Batch: XXX38796
Prep Method: SW3550C
Prep Date/Time: 11/02/17 13:10
Prep Initial Wt./Vol.: 30.087 g
Prep Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1771310 [MXX/31196]
Blank Lab ID: 1423479

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010

Results by **SW6020A**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	0.500U	1.00	0.310	mg/Kg
Barium	0.150U	0.300	0.0940	mg/Kg
Cadmium	0.100U	0.200	0.0620	mg/Kg
Chromium	0.260J	0.400	0.130	mg/Kg
Lead	0.100U	0.200	0.0620	mg/Kg
Mercury	0.0200U	0.0400	0.0120	mg/Kg
Selenium	0.500U	1.00	0.310	mg/Kg
Silver	0.100U	0.200	0.0620	mg/Kg

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 11/2/2017 5:58:07PM

Prep Batch: MXX31196
Prep Method: SW3050B
Prep Date/Time: 11/1/2017 8:01:24AM
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [MXX31196]
Blank Spike Lab ID: 1423480
Date Analyzed: 11/02/2017 18:02

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010

Results by **SW6020A**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	50	50.8	102	(82-118)
Barium	50	50.9	102	(86-116)
Cadmium	5	5.06	101	(84-116)
Chromium	20	19.6	98	(83-119)
Lead	50	49.2	98	(84-118)
Mercury	0.5	0.517	103	(74-126)
Selenium	50	51.2	102	(80-119)
Silver	5	5.40	108	(83-118)

Batch Information

Analytical Batch: **MMS9992**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexion P5**
Analyst: **ACF**

Prep Batch: **MXX31196**
Prep Method: **SW3050B**
Prep Date/Time: **11/01/2017 08:01**
Spike Init Wt./Vol.: 50 mg/Kg Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Matrix Spike Summary

Original Sample ID: 1423481
MS Sample ID: 1423484 MS
MSD Sample ID: 1423485 MSD

Analysis Date: 11/02/2017 18:07
Analysis Date: 11/02/2017 18:11
Analysis Date: 11/02/2017 18:16
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010

Results by **SW6020A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	12.3	47.5	60.6	102	49.3	61.8	100	82-118	1.95	(< 20)
Barium	114	47.5	179	136 *	49.3	189	153 *	86-116	5.64	(< 20)
Cadmium	0.161J	4.75	4.85	99	4.93	5.09	100	84-116	4.82	(< 20)
Chromium	22.3	19.0	41.9	103	19.7	43.1	106	83-119	2.82	(< 20)
Lead	9.58	47.5	53.5	93	49.3	54.1	91	84-118	1.15	(< 20)
Mercury	0.0400	0.475	.499	97	0.493	0.520	98	74-126	4.29	(< 20)
Selenium	0.465J	47.5	46.9	98	49.3	50.1	101	80-119	6.50	(< 20)
Silver	0.0701J	4.75	5	104	4.93	5.24	105	83-118	4.68	(< 20)

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 11/2/2017 6:11:37PM

Prep Batch: MXX31196
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 11/1/2017 8:01:24AM
Prep Initial Wt./Vol.: 1.05g
Prep Extract Vol: 50.00mL

Print Date: 11/29/2017 8:43:35AM

Bench Spike Summary

Original Sample ID: 1423481
MS Sample ID: 1423482 BND
MSD Sample ID:

Analysis Date: 11/02/2017 18:07
Analysis Date: 11/02/2017 18:20
Analysis Date:
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010

Results by **SW6020A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Barium	114	250	380	106				80-120		

Batch Information

Analytical Batch: MMS9992
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 11/2/2017 6:20:34PM

Prep Batch: MXX31196
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 11/1/2017 8:01:24AM
Prep Initial Wt./Vol.: 1.00g
Prep Extract Vol: 50.00mL

Print Date: 11/29/2017 8:43:35AM

Method Blank

Blank ID: MB for HBN 1771515 [MXX/31200]
Blank Lab ID: 1424041

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572037

Results by **SW6020A**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	0.500U	1.00	0.310	mg/Kg
Barium	0.150U	0.300	0.0940	mg/Kg
Cadmium	0.100U	0.200	0.0620	mg/Kg
Chromium	0.200U	0.400	0.130	mg/Kg
Lead	0.100U	0.200	0.0620	mg/Kg
Mercury	0.0132J	0.0400	0.0120	mg/Kg
Selenium	0.500U	1.00	0.310	mg/Kg

Batch Information

Analytical Batch: MMS9993
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: VDL
Analytical Date/Time: 11/6/2017 10:55:27AM

Prep Batch: MXX31200
Prep Method: SW3050B
Prep Date/Time: 11/3/2017 11:34:52AM
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

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Duplicate Sample Summary

Original Sample ID: 1424043
Duplicate Sample ID: 1424045
QC for Samples:
1178572037

Analysis Date: 11/06/2017 11:27
Matrix: Solid/Soil (Wet Weight)

Results by **SW6020A**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Lead	16.7	17.1	mg/Kg	2.43	(< 20)

Batch Information

Analytical Batch: MMS9993
Analytical Method: SW6020A
Instrument: Perkin Elmer NexIon P5
Analyst: VDL

Prep Batch: MXX31200
Prep Method: SW3050B
Prep Date/Time: 11/3/2017 11:34:52AM

Print Date: 11/29/2017 8:43:39AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [MXX31200]
Blank Spike Lab ID: 1424042
Date Analyzed: 11/06/2017 10:59

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572037

Results by **SW6020A**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	50	52.1	104	(82-118)
Barium	50	53.9	108	(86-116)
Cadmium	5	5.19	104	(84-116)
Chromium	20	18.4	92	(83-119)
Lead	50	52.4	105	(84-118)
Mercury	0.5	0.513	103	(74-126)
Selenium	50	51.6	103	(80-119)

Batch Information

Analytical Batch: **MMS9993**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **VDL**

Prep Batch: **MXX31200**
Prep Method: **SW3050B**
Prep Date/Time: **11/03/2017 11:34**
Spike Init Wt./Vol.: 50 mg/Kg Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1424043
MS Sample ID: 1424046 MS
MSD Sample ID: 1424047 MSD

QC for Samples: 1178572037

Analysis Date: 11/06/2017 11:04
Analysis Date: 11/06/2017 11:08
Analysis Date: 11/06/2017 11:13
Matrix: Solid/Soil (Wet Weight)

Results by **SW6020A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	7.02	48.9	56.5	101	49.6	57.6	102	82-118	1.92	(< 20)
Barium	126	48.9	204	160 *	49.6	198	144 *	86-116	3.18	(< 20)
Cadmium	0.126J	4.89	5.02	100	4.96	5.15	101	84-116	2.55	(< 20)
Chromium	18.7	19.6	41.4	116	19.8	41.0	112	83-119	1.13	(< 20)
Lead	16.7	48.9	77.8	125 *	49.6	62.3	92	84-118	22.10 *	(< 20)
Mercury	0.0608	0.489	.533	97	0.496	0.541	97	74-126	1.57	(< 20)
Selenium	0.297J	48.9	50.3	102	49.6	50.5	101	80-119	0.58	(< 20)

Batch Information

Analytical Batch: MMS9993
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: VDL
Analytical Date/Time: 11/6/2017 11:08:58AM

Prep Batch: MXX31200
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 11/3/2017 11:34:52AM
Prep Initial Wt./Vol.: 1.02g
Prep Extract Vol: 50.00mL

Print Date: 11/29/2017 8:43:41AM

Bench Spike Summary

Original Sample ID: 1424043
MS Sample ID: 1424044 BND
MSD Sample ID:

Analysis Date: 11/06/2017 11:04
Analysis Date: 11/06/2017 11:17
Analysis Date:
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1178572037

Results by **SW6020A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Lead	16.7	118	138	103				80-120		

Batch Information

Analytical Batch: MMS9993
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: VDL
Analytical Date/Time: 11/6/2017 11:17:59AM

Prep Batch: MXX31200
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 11/3/2017 11:34:52AM
Prep Initial Wt./Vol.: 1.06g
Prep Extract Vol: 50.00mL

Print Date: 11/29/2017 8:43:41AM

Method Blank

Blank ID: MB for HBN 1771824 [MXX/31216]
Blank Lab ID: 1424936

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572037

Results by **SW6020A**

Parameter	Results	LOQ/CL	DL	Units
Silver	0.0705J	0.200	0.0620	mg/Kg

Batch Information

Analytical Batch: MMS10000
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 11/12/2017 4:29:10PM

Prep Batch: MXX31216
Prep Method: SW3050B
Prep Date/Time: 11/9/2017 8:29:38AM
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [MXX31216]
Blank Spike Lab ID: 1424937
Date Analyzed: 11/12/2017 16:33

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572037

Results by **SW6020A**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
Silver	5	5.32	106	(83-118)

Batch Information

Analytical Batch: **MMS10000**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **ACF**

Prep Batch: **MXX31216**
Prep Method: **SW3050B**
Prep Date/Time: **11/09/2017 08:29**
Spike Init Wt./Vol.: 5 mg/Kg Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1424938
MS Sample ID: 1424941 MS
MSD Sample ID: 1424942 MSD

QC for Samples: 1178572037

Analysis Date: 11/12/2017 16:38
Analysis Date: 11/12/2017 16:42
Analysis Date: 11/12/2017 16:47
Matrix: Solid/Soil (Wet Weight)

Results by **SW6020A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Silver	0.0995U	4.77	4.67	98	4.63	4.45	96	83-118	4.93	(< 20)

Batch Information

Analytical Batch: MMS10000
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 11/12/2017 4:42:47PM

Prep Batch: MXX31216
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 11/9/2017 8:29:38AM
Prep Initial Wt./Vol.: 1.05g
Prep Extract Vol: 50.00mL

Print Date: 11/29/2017 8:43:45AM

Method Blank

Blank ID: MB for HBN 1771315 [SPT/10359]
Blank Lab ID: 1423500

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027,

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	Units
Total Solids	100			%

Batch Information

Analytical Batch: SPT10359
Analytical Method: SM21 2540G
Instrument:
Analyst: CMC
Analytical Date/Time: 10/31/2017 3:56:00PM

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Duplicate Sample Summary

Original Sample ID: 1178571002
Duplicate Sample ID: 1423501

Analysis Date: 10/31/2017 15:56
Matrix: Soil/Solid (dry weight)

QC for Samples:

1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	96.2	96.2	%	0.03	(< 15)

Batch Information

Analytical Batch: SPT10359
Analytical Method: SM21 2540G
Instrument:
Analyst: CMC

Print Date: 11/29/2017 8:43:47AM

Duplicate Sample Summary

Original Sample ID: 1178572006
Duplicate Sample ID: 1423502

Analysis Date: 10/31/2017 15:56
Matrix: Soil/Solid (dry weight)

QC for Samples:

1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572013, 1178572014, 1178572015, 1178572016,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	84.1	84.0	%	0.05	(< 15)

Batch Information

Analytical Batch: SPT10359
Analytical Method: SM21 2540G
Instrument:
Analyst: CMC

Print Date: 11/29/2017 8:43:47AM

Duplicate Sample Summary

Original Sample ID: 1178572024
Duplicate Sample ID: 1423503

Analysis Date: 10/31/2017 15:56
Matrix: Soil/Solid (dry weight)

QC for Samples:

1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021, 1178572022,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	81.0	81.2	%	0.36	(< 15)

Batch Information

Analytical Batch: SPT10359
Analytical Method: SM21 2540G
Instrument:
Analyst: CMC

Print Date: 11/29/2017 8:43:47AM

Duplicate Sample Summary

Original Sample ID: 1178573001
Duplicate Sample ID: 1423504

Analysis Date: 10/31/2017 15:56
Matrix: Soil/Solid (dry weight)

QC for Samples:

1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033, 1178572034

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	73.8	76.4	%	3.50	(< 15)

Batch Information

Analytical Batch: SPT10359
Analytical Method: SM21 2540G
Instrument:
Analyst: CMC

Print Date: 11/29/2017 8:43:47AM

Method Blank

Blank ID: MB for HBN 1771507 [SPT/10361]
Blank Lab ID: 1424022

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572037

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	Units
Total Solids	100			%

Batch Information

Analytical Batch: SPT10361
Analytical Method: SM21 2540G
Instrument:
Analyst: NIC
Analytical Date/Time: 11/2/2017 3:30:00PM

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Duplicate Sample Summary

Original Sample ID: 1179499004
Duplicate Sample ID: 1424023
QC for Samples:
1178572037

Analysis Date: 11/02/2017 15:30
Matrix: Soil/Solid (dry weight)

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	42.5	42.7	%	0.55	(< 15)

Batch Information

Analytical Batch: SPT10361
Analytical Method: SM21 2540G
Instrument:
Analyst: NIC

Print Date: 11/29/2017 8:43:50AM

Method Blank

Blank ID: MB for HBN 1771459 [VXX/31660]
Blank Lab ID: 1423973

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.0100U	0.0200	0.00620	mg/Kg
1,1,1-Trichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1,2,2-Tetrachloroethane	0.00625U	0.0125	0.00390	mg/Kg
1,1,2-Trichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,1-Dichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloropropene	0.0125U	0.0250	0.00780	mg/Kg
1,2,3-Trichlorobenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2,3-Trichloropropane	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trimethylbenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2-Dibromo-3-chloropropane	0.0500U	0.100	0.0310	mg/Kg
1,2-Dibromoethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2-Dichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,3,5-Trimethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,4-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
2,2-Dichloropropane	0.0125U	0.0250	0.00780	mg/Kg
2-Butanone (MEK)	0.125U	0.250	0.0780	mg/Kg
2-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
2-Hexanone	0.0500U	0.100	0.0310	mg/Kg
4-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Isopropyltoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Methyl-2-pentanone (MIBK)	0.125U	0.250	0.0780	mg/Kg
Benzene	0.00625U	0.0125	0.00390	mg/Kg
Bromobenzene	0.0125U	0.0250	0.00780	mg/Kg
Bromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromodichloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromoform	0.0125U	0.0250	0.00780	mg/Kg
Bromomethane	0.100U	0.200	0.0620	mg/Kg
Carbon disulfide	0.0315J	0.100	0.0310	mg/Kg
Carbon tetrachloride	0.0110J	0.0125	0.00390	mg/Kg
Chlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
Chloroethane	0.100U	0.200	0.0620	mg/Kg
Chloroform	0.0125U	0.0250	0.00780	mg/Kg

Method Blank

Blank ID: MB for HBN 1771459 [VXX/31660]
Blank Lab ID: 1423973

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.0125U	0.0250	0.00780	mg/Kg
cis-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
cis-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Dibromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Dibromomethane	0.0125U	0.0250	0.00780	mg/Kg
Dichlorodifluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Freon-113	0.0500U	0.100	0.0310	mg/Kg
Hexachlorobutadiene	0.0100U	0.0200	0.00620	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
Methylene chloride	0.0500U	0.100	0.0310	mg/Kg
Methyl-t-butyl ether	0.0500U	0.100	0.0310	mg/Kg
Naphthalene	0.0125U	0.0250	0.00780	mg/Kg
n-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
n-Propylbenzene	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
sec-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Styrene	0.0125U	0.0250	0.00780	mg/Kg
tert-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Tetrachloroethene	0.00625U	0.0125	0.00390	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Trichloroethene	0.00500U	0.0100	0.00310	mg/Kg
Trichlorofluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Vinyl acetate	0.0500U	0.100	0.0310	mg/Kg
Vinyl chloride	0.00500U	0.0100	0.00310	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	103	71-136		%
4-Bromofluorobenzene (surr)	102	55-151		%
Toluene-d8 (surr)	98.7	85-116		%

Method Blank

Blank ID: MB for HBN 1771459 [VXX/31660]
Blank Lab ID: 1423973

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/1/2017 2:00:00PM

Prep Batch: VXX31660
Prep Method: SW5035A
Prep Date/Time: 11/1/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31660]
Blank Spike Lab ID: 1423974
Date Analyzed: 11/01/2017 14:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,1,1,2-Tetrachloroethane	0.750	0.836	112	(78-125)
1,1,1-Trichloroethane	0.750	0.766	102	(73-130)
1,1,2,2-Tetrachloroethane	0.750	0.765	102	(70-124)
1,1,2-Trichloroethane	0.750	0.762	102	(78-121)
1,1-Dichloroethane	0.750	0.802	107	(76-125)
1,1-Dichloroethene	0.750	0.822	110	(70-131)
1,1-Dichloropropene	0.750	0.802	107	(76-125)
1,2,3-Trichlorobenzene	0.750	0.682	91	(66-130)
1,2,3-Trichloropropane	0.750	0.755	101	(73-125)
1,2,4-Trichlorobenzene	0.750	0.739	99	(67-129)
1,2,4-Trimethylbenzene	0.750	0.804	107	(75-123)
1,2-Dibromo-3-chloropropane	0.750	0.787	105	(61-132)
1,2-Dibromoethane	0.750	0.773	103	(78-122)
1,2-Dichlorobenzene	0.750	0.749	100	(78-121)
1,2-Dichloroethane	0.750	0.739	99	(73-128)
1,2-Dichloropropane	0.750	0.771	103	(76-123)
1,3,5-Trimethylbenzene	0.750	0.810	108	(73-124)
1,3-Dichlorobenzene	0.750	0.764	102	(77-121)
1,3-Dichloropropane	0.750	0.749	100	(77-121)
1,4-Dichlorobenzene	0.750	0.756	101	(75-120)
2,2-Dichloropropane	0.750	0.919	123	(67-133)
2-Butanone (MEK)	2.25	2.26	101	(51-148)
2-Chlorotoluene	0.750	0.800	107	(75-122)
2-Hexanone	2.25	2.17	96	(53-145)
4-Chlorotoluene	0.750	0.806	107	(72-124)
4-Isopropyltoluene	0.750	0.804	107	(73-127)
4-Methyl-2-pentanone (MIBK)	2.25	2.22	99	(65-135)
Benzene	0.750	0.782	104	(77-121)
Bromobenzene	0.750	0.793	106	(78-121)
Bromochloromethane	0.750	0.788	105	(78-125)
Bromodichloromethane	0.750	0.858	114	(75-127)
Bromoform	0.750	0.798	106	(67-132)
Bromomethane	0.750	0.802	107	(53-143)
Carbon disulfide	1.13	1.19	106	(63-132)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31660]
Blank Spike Lab ID: 1423974
Date Analyzed: 11/01/2017 14:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)		CL
Carbon tetrachloride	0.750	0.807	108		(70-135)
Chlorobenzene	0.750	0.764	102		(79-120)
Chloroethane	0.750	0.702	94		(59-139)
Chloroform	0.750	0.790	105		(78-123)
Chloromethane	0.750	0.688	92		(50-136)
cis-1,2-Dichloroethene	0.750	0.779	104		(77-123)
cis-1,3-Dichloropropene	0.750	0.853	114		(74-126)
Dibromochloromethane	0.750	0.788	105		(74-126)
Dibromomethane	0.750	0.778	104		(78-125)
Dichlorodifluoromethane	0.750	0.777	104		(29-149)
Ethylbenzene	0.750	0.789	105		(76-122)
Freon-113	1.13	1.16	103		(66-136)
Hexachlorobutadiene	0.750	0.756	101		(61-135)
Isopropylbenzene (Cumene)	0.750	0.806	107		(68-134)
Methylene chloride	0.750	0.718	96		(70-128)
Methyl-t-butyl ether	1.13	1.11	99		(73-125)
Naphthalene	0.750	0.708	94		(62-129)
n-Butylbenzene	0.750	0.795	106		(70-128)
n-Propylbenzene	0.750	0.841	112		(73-125)
o-Xylene	0.750	0.778	104		(77-123)
P & M -Xylene	1.50	1.59	106		(77-124)
sec-Butylbenzene	0.750	0.814	108		(73-126)
Styrene	0.750	0.780	104		(76-124)
tert-Butylbenzene	0.750	0.813	108		(73-125)
Tetrachloroethene	0.750	0.839	112		(73-128)
Toluene	0.750	0.778	104		(77-121)
trans-1,2-Dichloroethene	0.750	0.866	115		(74-125)
trans-1,3-Dichloropropene	0.750	0.852	114		(71-130)
Trichloroethene	0.750	0.812	108		(77-123)
Trichlorofluoromethane	0.750	1.21	161	*	(62-140)
Vinyl acetate	0.750	0.844	112		(50-151)
Vinyl chloride	0.750	0.767	102		(56-135)
Xylenes (total)	2.25	2.37	105		(78-124)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31660]
Blank Spike Lab ID: 1423974
Date Analyzed: 11/01/2017 14:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

Parameter	Blank Spike (%) Spike	Result	Rec (%)	CL
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	99.4	99	(71-136)
4-Bromofluorobenzene (surr)	0.750	102	102	(55-151)
Toluene-d8 (surr)	0.750	101	101	(85-116)

Batch Information

Analytical Batch: **VMS17406**
Analytical Method: **SW8260C**
Instrument: **VRA Agilent GC/MS 7890B/5977A**
Analyst: **NRO**

Prep Batch: **VXX31660**
Prep Method: **SW5035A**
Prep Date/Time: **11/01/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1178572001
MS Sample ID: 1423975 MS
MSD Sample ID: 1423976 MSD

Analysis Date: 11/01/2017 17:34
Analysis Date: 11/01/2017 15:48
Analysis Date: 11/01/2017 16:05
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	0.0130U	0.977	1.04	106	0.977	1.06	109	78-125	2.40	(< 20)
1,1,1-Trichloroethane	0.0163U	0.977	1.01	104	0.977	1.00	102	73-130	1.20	(< 20)
1,1,2,2-Tetrachloroethane	0.00810U	0.977	1.03	105	0.977	1.08	110	70-124	4.20	(< 20)
1,1,2-Trichloroethane	0.00650U	0.977	0.962	98	0.977	1.01	103	78-121	4.70	(< 20)
1,1-Dichloroethane	0.0163U	0.977	1.04	107	0.977	1.04	107	76-125	0.00	(< 20)
1,1-Dichloroethene	0.0163U	0.977	1.13	116	0.977	1.08	111	70-131	4.50	(< 20)
1,1-Dichloropropene	0.0163U	0.977	1.07	110	0.977	1.05	107	76-125	2.10	(< 20)
1,2,3-Trichlorobenzene	0.0325U	0.977	0.676	69	0.977	0.853	87	66-130	23.30	* (< 20)
1,2,3-Trichloropropane	0.0163U	0.977	0.921	94	0.977	0.945	97	73-125	2.60	(< 20)
1,2,4-Trichlorobenzene	0.0163U	0.977	0.814	83	0.977	0.907	93	67-129	10.80	(< 20)
1,2,4-Trimethylbenzene	0.0325U	0.977	0.999	102	0.977	0.968	99	75-123	3.20	(< 20)
1,2-Dibromo-3-chloropropane	0.0650U	0.977	0.925	95	0.977	1.04	107	61-132	12.10	(< 20)
1,2-Dibromoethane	0.00650U	0.977	0.962	98	0.977	1.01	103	78-122	5.10	(< 20)
1,2-Dichlorobenzene	0.0163U	0.977	0.914	94	0.977	0.911	93	78-121	0.36	(< 20)
1,2-Dichloroethane	0.00650U	0.977	0.937	96	0.977	0.976	100	73-128	4.10	(< 20)
1,2-Dichloropropane	0.00650U	0.977	0.970	99	0.977	0.989	101	76-123	2.00	(< 20)
1,3,5-Trimethylbenzene	0.0163U	0.977	1.00	103	0.977	0.993	102	73-124	1.20	(< 20)
1,3-Dichlorobenzene	0.0163U	0.977	0.967	99	0.977	0.934	96	77-121	3.40	(< 20)
1,3-Dichloropropane	0.00650U	0.977	0.940	96	0.977	0.975	100	77-121	3.60	(< 20)
1,4-Dichlorobenzene	0.0163U	0.977	0.976	100	0.977	0.956	98	75-120	2.00	(< 20)
2,2-Dichloropropane	0.0163U	0.977	1.28	130	0.977	1.23	125	67-133	3.70	(< 20)
2-Butanone (MEK)	0.163U	2.93	2.74	94	2.93	3.16	108	51-148	14.10	(< 20)
2-Chlorotoluene	0.0163U	0.977	1.00	102	0.977	0.986	101	75-122	1.50	(< 20)
2-Hexanone	0.0650U	2.93	2.63	90	2.93	2.96	101	53-145	11.60	(< 20)
4-Chlorotoluene	0.0163U	0.977	0.985	101	0.977	0.959	98	72-124	2.60	(< 20)
4-Isopropyltoluene	0.0163U	0.977	1.000	102	0.977	0.990	101	73-127	0.91	(< 20)
4-Methyl-2-pentanone (MIBK)	0.163U	2.93	2.69	92	2.93	2.99	102	65-135	10.60	(< 20)
Benzene	0.00810U	0.977	1.01	103	0.977	1.03	105	77-121	2.20	(< 20)
Bromobenzene	0.0163U	0.977	0.993	102	0.977	0.974	100	78-121	1.90	(< 20)
Bromochloromethane	0.0163U	0.977	1.05	108	0.977	1.02	104	78-125	3.40	(< 20)
Bromodichloromethane	0.0163U	0.977	1.08	110	0.977	1.10	113	75-127	2.10	(< 20)
Bromoform	0.0163U	0.977	0.973	100	0.977	1.05	107	67-132	7.50	(< 20)
Bromomethane	0.130U	0.977	1.09	112	0.977	1.08	111	53-143	0.75	(< 20)
Carbon disulfide	0.0650U	1.47	1.69	116	1.47	1.55	106	63-132	8.90	(< 20)
Carbon tetrachloride	0.00810U	0.977	1.08	111	0.977	1.05	108	70-135	2.60	(< 20)
Chlorobenzene	0.0163U	0.977	0.970	99	0.977	0.983	101	79-120	1.40	(< 20)
Chloroethane	0.130U	0.977	0.955	98	0.977	0.905	93	59-139	5.40	(< 20)

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Matrix Spike Summary

Original Sample ID: 1178572001
MS Sample ID: 1423975 MS
MSD Sample ID: 1423976 MSD

Analysis Date: 11/01/2017 17:34
Analysis Date: 11/01/2017 15:48
Analysis Date: 11/01/2017 16:05
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

		Matrix Spike (mg/Kg)				Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Chloroform	0.0163U	0.977	1.01	104		0.977	1.02	104		78-123	0.96	(< 20)
Chloromethane	0.0163U	0.977	0.882	90		0.977	0.884	91		50-136	0.33	(< 20)
cis-1,2-Dichloroethene	0.0163U	0.977	1.00	103		0.977	1.01	103		77-123	0.68	(< 20)
cis-1,3-Dichloropropene	0.00810U	0.977	1.08	111		0.977	1.11	113		74-126	2.00	(< 20)
Dibromochloromethane	0.0163U	0.977	0.980	100		0.977	1.03	105		74-126	4.50	(< 20)
Dibromomethane	0.0163U	0.977	0.980	100		0.977	1.02	104		78-125	3.60	(< 20)
Dichlorodifluoromethane	0.0325U	0.977	0.957	98		0.977	0.883	90		29-149	8.00	(< 20)
Ethylbenzene	0.0163U	0.977	1.000	102		0.977	1.02	104		76-122	2.10	(< 20)
Freon-113	0.0650U	1.47	1.60	109		1.47	1.53	104		66-136	4.40	(< 20)
Hexachlorobutadiene	0.0130U	0.977	1.09	111		0.977	1.02	104		61-135	6.50	(< 20)
Isopropylbenzene (Cumene)	0.0163U	0.977	1.00	103		0.977	1.04	106		68-134	3.30	(< 20)
Methylene chloride	0.0650U	0.977	0.918	94		0.977	0.905	93		70-128	1.40	(< 20)
Methyl-t-butyl ether	0.0650U	1.47	1.39	95		1.47	1.45	99		73-125	3.90	(< 20)
Naphthalene	0.0163U	0.977	0.749	77		0.977	0.913	93		62-129	19.80	(< 20)
n-Butylbenzene	0.0163U	0.977	0.959	98		0.977	0.942	96		70-128	1.80	(< 20)
n-Propylbenzene	0.0163U	0.977	1.02	104		0.977	0.999	102		73-125	1.90	(< 20)
o-Xylene	0.0163U	0.977	0.988	101		0.977	1.00	102		77-123	1.40	(< 20)
P & M -Xylene	0.0325U	1.95	2.03	104		1.95	2.05	105		77-124	1.10	(< 20)
sec-Butylbenzene	0.0163U	0.977	1.01	103		0.977	0.993	102		73-126	1.60	(< 20)
Styrene	0.0163U	0.977	0.973	100		0.977	1.01	103		76-124	3.80	(< 20)
tert-Butylbenzene	0.0163U	0.977	0.994	102		0.977	0.974	100		73-125	2.00	(< 20)
Tetrachloroethene	0.0633	0.977	1.12	108		0.977	1.15	111		73-128	2.90	(< 20)
Toluene	0.199	0.977	1.17	100		0.977	1.18	100		77-121	0.50	(< 20)
trans-1,2-Dichloroethene	0.0163U	0.977	1.16	119		0.977	1.13	115		74-125	3.00	(< 20)
trans-1,3-Dichloropropene	0.00810U	0.977	1.09	111		0.977	1.12	114		71-130	2.70	(< 20)
Trichloroethene	0.00650U	0.977	1.07	109		0.977	1.06	109		77-123	0.46	(< 20)
Trichlorofluoromethane	0.0325U	0.977	1.59	162	*	0.977	1.38	141	*	62-140	14.00	(< 20)
Vinyl acetate	0.0650U	0.977	1.05	107		0.977	1.11	114		50-151	5.60	(< 20)
Vinyl chloride	0.00650U	0.977	0.996	102		0.977	0.933	95		56-135	6.60	(< 20)
Xylenes (total)	0.0487U	2.93	3.02	103		2.93	3.05	104		78-124	1.20	(< 20)
Surrogates												
1,2-Dichloroethane-D4 (surr)		0.977	0.944	97		0.977	0.985	101		71-136	4.10	
4-Bromofluorobenzene (surr)		1.14	1.14	100		1.14	1.12	98		55-151	2.50	
Toluene-d8 (surr)		0.977	0.986	101		0.977	0.985	101		85-116	0.07	

Print Date: 11/29/2017 8:43:55AM

Matrix Spike Summary

Original Sample ID: 1178572001
MS Sample ID: 1423975 MS
MSD Sample ID: 1423976 MSD

Analysis Date:
Analysis Date: 11/01/2017 15:48
Analysis Date: 11/01/2017 16:05
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572035, 1178572036

Results by **SW8260C**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: VMS17406
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/1/2017 3:48:00PM

Prep Batch: VXX31660
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 11/1/2017 6:00:00AM
Prep Initial Wt./Vol.: 65.24g
Prep Extract Vol: 35.52mL

Print Date: 11/29/2017 8:43:55AM

Method Blank

Blank ID: MB for HBN 1771460 [VXX/31661]
Blank Lab ID: 1423977

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.0100U	0.0200	0.00620	mg/Kg
1,1,1-Trichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1,2,2-Tetrachloroethane	0.00625U	0.0125	0.00390	mg/Kg
1,1,2-Trichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,1-Dichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloropropene	0.0125U	0.0250	0.00780	mg/Kg
1,2,3-Trichlorobenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2,3-Trichloropropane	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trimethylbenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2-Dibromo-3-chloropropane	0.0500U	0.100	0.0310	mg/Kg
1,2-Dibromoethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2-Dichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,3,5-Trimethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,4-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
2,2-Dichloropropane	0.0125U	0.0250	0.00780	mg/Kg
2-Butanone (MEK)	0.125U	0.250	0.0780	mg/Kg
2-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
2-Hexanone	0.0500U	0.100	0.0310	mg/Kg
4-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Isopropyltoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Methyl-2-pentanone (MIBK)	0.125U	0.250	0.0780	mg/Kg
Benzene	0.00625U	0.0125	0.00390	mg/Kg
Bromobenzene	0.0125U	0.0250	0.00780	mg/Kg
Bromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromodichloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromoform	0.0125U	0.0250	0.00780	mg/Kg
Bromomethane	0.100U	0.200	0.0620	mg/Kg
Carbon disulfide	0.0500U	0.100	0.0310	mg/Kg
Carbon tetrachloride	0.00625U	0.0125	0.00390	mg/Kg
Chlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
Chloroethane	0.100U	0.200	0.0620	mg/Kg
Chloroform	0.0125U	0.0250	0.00780	mg/Kg

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Method Blank

Blank ID: MB for HBN 1771460 [VXX/31661]
Blank Lab ID: 1423977

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.0125U	0.0250	0.00780	mg/Kg
cis-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
cis-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Dibromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Dibromomethane	0.0125U	0.0250	0.00780	mg/Kg
Dichlorodifluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Freon-113	0.0500U	0.100	0.0310	mg/Kg
Hexachlorobutadiene	0.0100U	0.0200	0.00620	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
Methylene chloride	0.0428J	0.100	0.0310	mg/Kg
Methyl-t-butyl ether	0.0500U	0.100	0.0310	mg/Kg
Naphthalene	0.0125U	0.0250	0.00780	mg/Kg
n-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
n-Propylbenzene	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
sec-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Styrene	0.0125U	0.0250	0.00780	mg/Kg
tert-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Tetrachloroethene	0.00625U	0.0125	0.00390	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Trichloroethene	0.00500U	0.0100	0.00310	mg/Kg
Trichlorofluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Vinyl acetate	0.0500U	0.100	0.0310	mg/Kg
Vinyl chloride	0.00500U	0.0100	0.00310	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	106	71-136		%
4-Bromofluorobenzene (surr)	90.3	55-151		%
Toluene-d8 (surr)	97.7	85-116		%

Method Blank

Blank ID: MB for HBN 1771460 [VXX/31661]
Blank Lab ID: 1423977

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Instrument: VQA 7890/5975 GC/MS
Analyst: NRO
Analytical Date/Time: 11/1/2017 2:37:00PM

Prep Batch: VXX31661
Prep Method: SW5035A
Prep Date/Time: 11/1/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31661]
Blank Spike Lab ID: 1423978
Date Analyzed: 11/01/2017 14:53

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,1,1,2-Tetrachloroethane	0.750	0.744	99	(78-125)
1,1,1-Trichloroethane	0.750	0.815	109	(73-130)
1,1,2,2-Tetrachloroethane	0.750	0.795	106	(70-124)
1,1,2-Trichloroethane	0.750	0.766	102	(78-121)
1,1-Dichloroethane	0.750	0.780	104	(76-125)
1,1-Dichloroethene	0.750	0.924	123	(70-131)
1,1-Dichloropropene	0.750	0.833	111	(76-125)
1,2,3-Trichlorobenzene	0.750	0.678	90	(66-130)
1,2,3-Trichloropropane	0.750	0.751	100	(73-125)
1,2,4-Trichlorobenzene	0.750	0.713	95	(67-129)
1,2,4-Trimethylbenzene	0.750	0.758	101	(75-123)
1,2-Dibromo-3-chloropropane	0.750	0.755	101	(61-132)
1,2-Dibromoethane	0.750	0.785	105	(78-122)
1,2-Dichlorobenzene	0.750	0.752	100	(78-121)
1,2-Dichloroethane	0.750	0.695	93	(73-128)
1,2-Dichloropropane	0.750	0.786	105	(76-123)
1,3,5-Trimethylbenzene	0.750	0.768	102	(73-124)
1,3-Dichlorobenzene	0.750	0.763	102	(77-121)
1,3-Dichloropropane	0.750	0.753	100	(77-121)
1,4-Dichlorobenzene	0.750	0.772	103	(75-120)
2,2-Dichloropropane	0.750	0.776	104	(67-133)
2-Butanone (MEK)	2.25	2.37	105	(51-148)
2-Chlorotoluene	0.750	0.781	104	(75-122)
2-Hexanone	2.25	2.30	102	(53-145)
4-Chlorotoluene	0.750	0.774	103	(72-124)
4-Isopropyltoluene	0.750	0.780	104	(73-127)
4-Methyl-2-pentanone (MIBK)	2.25	2.27	101	(65-135)
Benzene	0.750	0.805	107	(77-121)
Bromobenzene	0.750	0.766	102	(78-121)
Bromochloromethane	0.750	0.811	108	(78-125)
Bromodichloromethane	0.750	0.780	104	(75-127)
Bromoform	0.750	0.759	101	(67-132)
Bromomethane	0.750	0.781	104	(53-143)
Carbon disulfide	1.13	1.39	123	(63-132)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31661]
Blank Spike Lab ID: 1423978
Date Analyzed: 11/01/2017 14:53

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)		CL
Carbon tetrachloride	0.750	0.783	104		(70-135)
Chlorobenzene	0.750	0.756	101		(79-120)
Chloroethane	0.750	0.844	112		(59-139)
Chloroform	0.750	0.779	104		(78-123)
Chloromethane	0.750	0.895	119		(50-136)
cis-1,2-Dichloroethene	0.750	0.802	107		(77-123)
cis-1,3-Dichloropropene	0.750	0.842	112		(74-126)
Dibromochloromethane	0.750	0.773	103		(74-126)
Dibromomethane	0.750	0.734	98		(78-125)
Dichlorodifluoromethane	0.750	0.880	117		(29-149)
Ethylbenzene	0.750	0.781	104		(76-122)
Freon-113	1.13	1.40	124		(66-136)
Hexachlorobutadiene	0.750	0.723	96		(61-135)
Isopropylbenzene (Cumene)	0.750	0.778	104		(68-134)
Methylene chloride	0.750	1.09	145	*	(70-128)
Methyl-t-butyl ether	1.13	1.13	101		(73-125)
Naphthalene	0.750	0.702	94		(62-129)
n-Butylbenzene	0.750	0.708	94		(70-128)
n-Propylbenzene	0.750	0.797	106		(73-125)
o-Xylene	0.750	0.763	102		(77-123)
P & M -Xylene	1.50	1.55	103		(77-124)
sec-Butylbenzene	0.750	0.798	106		(73-126)
Styrene	0.750	0.751	100		(76-124)
tert-Butylbenzene	0.750	0.794	106		(73-125)
Tetrachloroethene	0.750	0.730	97		(73-128)
Toluene	0.750	0.762	102		(77-121)
trans-1,2-Dichloroethene	0.750	0.837	112		(74-125)
trans-1,3-Dichloropropene	0.750	0.741	99		(71-130)
Trichloroethene	0.750	0.804	107		(77-123)
Trichlorofluoromethane	0.750	0.845	113		(62-140)
Vinyl acetate	0.750	0.737	98		(50-151)
Vinyl chloride	0.750	0.831	111		(56-135)
Xylenes (total)	2.25	2.31	103		(78-124)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31661]
Blank Spike Lab ID: 1423978
Date Analyzed: 11/01/2017 14:53

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

Parameter	Spike	Blank Spike (%) Result	Rec (%)	CL
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	96.6	97	(71-136)
4-Bromofluorobenzene (surr)	0.750	91.9	92	(55-151)
Toluene-d8 (surr)	0.750	101	101	(85-116)

Batch Information

Analytical Batch: **VMS17407**
Analytical Method: **SW8260C**
Instrument: **VQA 7890/5975 GC/MS**
Analyst: **NRO**

Prep Batch: **VXX31661**
Prep Method: **SW5035A**
Prep Date/Time: **11/01/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
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Matrix Spike Summary

Original Sample ID: 1178572021
MS Sample ID: 1423979 MS
MSD Sample ID: 1423980 MSD

Analysis Date: 11/01/2017 16:57
Analysis Date: 11/01/2017 15:53
Analysis Date: 11/01/2017 16:09
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	0.0143U	1.07	1.08	101	1.07	1.11	103	78-125	2.20	(< 20)
1,1,1-Trichloroethane	0.0179U	1.07	1.15	107	1.07	1.17	109	73-130	1.20	(< 20)
1,1,2,2-Tetrachloroethane	0.00895U	1.07	1.10	103	1.07	1.14	106	70-124	3.00	(< 20)
1,1,2-Trichloroethane	0.00715U	1.07	1.09	101	1.07	1.13	106	78-121	4.30	(< 20)
1,1-Dichloroethane	0.0179U	1.07	1.10	103	1.07	1.13	106	76-125	2.80	(< 20)
1,1-Dichloroethene	0.0179U	1.07	1.37	127	1.07	1.39	130	70-131	2.00	(< 20)
1,1-Dichloropropene	0.0179U	1.07	1.17	109	1.07	1.20	112	76-125	2.10	(< 20)
1,2,3-Trichlorobenzene	0.0357U	1.07	0.776	72	1.07	0.986	92	66-130	23.90	* (< 20)
1,2,3-Trichloropropane	0.0179U	1.07	1.07	100	1.07	1.10	102	73-125	2.60	(< 20)
1,2,4-Trichlorobenzene	0.0179U	1.07	0.861	80	1.07	1.01	95	67-129	16.40	(< 20)
1,2,4-Trimethylbenzene	0.0357U	1.07	1.02	95	1.07	1.09	101	75-123	6.80	(< 20)
1,2-Dibromo-3-chloropropane	0.0715U	1.07	1.03	96	1.07	1.18	110	61-132	13.00	(< 20)
1,2-Dibromoethane	0.00715U	1.07	1.12	104	1.07	1.15	107	78-122	2.90	(< 20)
1,2-Dichlorobenzene	0.0179U	1.07	1.02	96	1.07	1.08	100	78-121	4.90	(< 20)
1,2-Dichloroethane	0.00715U	1.07	0.968	90	1.07	1.00	94	73-128	3.50	(< 20)
1,2-Dichloropropane	0.00715U	1.07	1.10	102	1.07	1.14	106	76-123	3.60	(< 20)
1,3,5-Trimethylbenzene	0.0179U	1.07	1.03	96	1.07	1.10	102	73-124	6.20	(< 20)
1,3-Dichlorobenzene	0.0179U	1.07	1.04	97	1.07	1.10	102	77-121	5.70	(< 20)
1,3-Dichloropropane	0.00715U	1.07	1.07	100	1.07	1.15	108	77-121	7.30	(< 20)
1,4-Dichlorobenzene	0.0179U	1.07	1.05	98	1.07	1.10	102	75-120	4.40	(< 20)
2,2-Dichloropropane	0.0179U	1.07	1.19	111	1.07	1.19	111	67-133	0.33	(< 20)
2-Butanone (MEK)	0.178U	3.22	3.23	100	3.22	3.68	114	51-148	12.90	(< 20)
2-Chlorotoluene	0.0179U	1.07	1.07	99	1.07	1.20	112	75-122	11.50	(< 20)
2-Hexanone	0.0715U	3.22	3.17	99	3.22	3.47	108	53-145	8.80	(< 20)
4-Chlorotoluene	0.0179U	1.07	1.07	100	1.07	1.12	104	72-124	4.70	(< 20)
4-Isopropyltoluene	0.0179U	1.07	1.04	97	1.07	1.10	103	73-127	5.70	(< 20)
4-Methyl-2-pentanone (MIBK)	0.178U	3.22	3.19	99	3.22	3.36	104	65-135	5.10	(< 20)
Benzene	0.0211	1.07	1.15	105	1.07	1.18	108	77-121	2.60	(< 20)
Bromobenzene	0.0179U	1.07	1.05	98	1.07	1.09	102	78-121	3.90	(< 20)
Bromochloromethane	0.0179U	1.07	1.18	110	1.07	1.15	107	78-125	2.50	(< 20)
Bromodichloromethane	0.0179U	1.07	1.13	105	1.07	1.13	105	75-127	0.06	(< 20)
Bromoform	0.0179U	1.07	1.12	104	1.07	1.13	105	67-132	0.57	(< 20)
Bromomethane	0.143U	1.07	1.17	109	1.07	1.19	111	53-143	1.80	(< 20)
Carbon disulfide	0.0715U	1.61	2.13	132	1.61	2.13	132	63-132	0.02	(< 20)
Carbon tetrachloride	0.00895U	1.07	1.12	105	1.07	1.11	104	70-135	0.73	(< 20)
Chlorobenzene	0.0179U	1.07	1.06	99	1.07	1.09	102	79-120	2.80	(< 20)
Chloroethane	0.143U	1.07	1.20	112	1.07	1.21	113	59-139	0.74	(< 20)

Print Date: 11/29/2017 8:43:58AM

Matrix Spike Summary

Original Sample ID: 1178572021
MS Sample ID: 1423979 MS
MSD Sample ID: 1423980 MSD

Analysis Date: 11/01/2017 16:57
Analysis Date: 11/01/2017 15:53
Analysis Date: 11/01/2017 16:09
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

		Matrix Spike (mg/Kg)				Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Chloroform	0.0179U	1.07	1.10	102		1.07	1.12	105		78-123	2.30	(< 20)
Chloromethane	0.0179U	1.07	1.23	115		1.07	1.33	124		50-136	7.50	(< 20)
cis-1,2-Dichloroethene	0.0179U	1.07	1.11	104		1.07	1.16	109		77-123	4.60	(< 20)
cis-1,3-Dichloropropene	0.00895U	1.07	1.21	113		1.07	1.23	115		74-126	1.80	(< 20)
Dibromochloromethane	0.0179U	1.07	1.12	104		1.07	1.13	105		74-126	1.20	(< 20)
Dibromomethane	0.0179U	1.07	1.03	96		1.07	1.04	97		78-125	1.80	(< 20)
Dichlorodifluoromethane	0.0357U	1.07	1.14	106		1.07	1.21	113		29-149	5.50	(< 20)
Ethylbenzene	0.0179U	1.07	1.12	104		1.07	1.15	108		76-122	3.40	(< 20)
Freon-113	0.0715U	1.61	2.02	125		1.61	2.07	129		66-136	2.60	(< 20)
Hexachlorobutadiene	0.0143U	1.07	1.05	98		1.07	1.11	103		61-135	5.10	(< 20)
Isopropylbenzene (Cumene)	0.0179U	1.07	1.09	102		1.07	1.14	107		68-134	4.40	(< 20)
Methylene chloride	0.0715U	1.07	1.57	147	*	1.07	1.70	158	*	70-128	7.00	(< 20)
Methyl-t-butyl ether	0.0715U	1.61	1.99	124		1.61	2.37	147	*	73-125	17.50	(< 20)
Naphthalene	0.0179U	1.07	0.828	77		1.07	1.04	97		62-129	22.50	* (< 20)
n-Butylbenzene	0.0179U	1.07	0.970	91		1.07	1.01	94		70-128	4.00	(< 20)
n-Propylbenzene	0.0179U	1.07	1.09	102		1.07	1.15	107		73-125	5.00	(< 20)
o-Xylene	0.0136J	1.07	1.10	102		1.07	1.13	106		77-123	3.30	(< 20)
P & M -Xylene	0.0375J	2.14	2.23	104		2.14	2.30	108		77-124	3.40	(< 20)
sec-Butylbenzene	0.0179U	1.07	1.10	102		1.07	1.13	106		73-126	3.10	(< 20)
Styrene	0.0179U	1.07	1.08	101		1.07	1.10	103		76-124	2.30	(< 20)
tert-Butylbenzene	0.0179U	1.07	1.09	102		1.07	1.13	105		73-125	3.20	(< 20)
Tetrachloroethene	0.00895U	1.07	1.04	97		1.07	1.07	100		73-128	2.50	(< 20)
Toluene	0.356	1.07	1.40	98		1.07	1.46	104		77-121	4.30	(< 20)
trans-1,2-Dichloroethene	0.0179U	1.07	1.70	158	*	1.07	1.86	173	*	74-125	8.90	(< 20)
trans-1,3-Dichloropropene	0.00895U	1.07	1.06	99		1.07	1.11	104		71-130	4.80	(< 20)
Trichloroethene	0.00715U	1.07	1.15	108		1.07	1.16	109		77-123	0.86	(< 20)
Trichlorofluoromethane	0.0357U	1.07	1.48	137		1.07	1.20	112		62-140	20.30	* (< 20)
Vinyl acetate	0.0715U	1.07	1.19	111		1.07	1.18	110		50-151	1.20	(< 20)
Vinyl chloride	0.00715U	1.07	1.16	108		1.07	1.23	114		56-135	5.30	(< 20)
Xylenes (total)	0.0511J	3.22	3.32	103		3.22	3.44	107		78-124	3.40	(< 20)
Surrogates												
1,2-Dichloroethane-D4 (surr)		1.07	1.03	96		1.07	1.02	96		71-136	0.49	
4-Bromofluorobenzene (surr)		1.21	1.60	133		1.21	1.67	139		55-151	4.30	
Toluene-d8 (surr)		1.07	1.08	101		1.07	1.08	101		85-116	0.16	

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
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Matrix Spike Summary

Original Sample ID: 1178572021
MS Sample ID: 1423979 MS
MSD Sample ID: 1423980 MSD

Analysis Date:
Analysis Date: 11/01/2017 15:53
Analysis Date: 11/01/2017 16:09
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572021, 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033

Results by **SW8260C**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: VMS17407
Analytical Method: SW8260C
Instrument: VQA 7890/5975 GC/MS
Analyst: NRO
Analytical Date/Time: 11/1/2017 3:53:00PM

Prep Batch: VXX31661
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 11/1/2017 6:00:00AM
Prep Initial Wt./Vol.: 63.66g
Prep Extract Vol: 36.94mL

Print Date: 11/29/2017 8:43:58AM

Method Blank

Blank ID: MB for HBN 1771550 [VXX/31663]
Blank Lab ID: 1424173

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572034

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.0100U	0.0200	0.00620	mg/Kg
1,1,1-Trichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1,2,2-Tetrachloroethane	0.00625U	0.0125	0.00390	mg/Kg
1,1,2-Trichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,1-Dichloroethane	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
1,1-Dichloropropene	0.0125U	0.0250	0.00780	mg/Kg
1,2,3-Trichlorobenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2,3-Trichloropropane	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2,4-Trimethylbenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2-Dibromo-3-chloropropane	0.0500U	0.100	0.0310	mg/Kg
1,2-Dibromoethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,2-Dichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,3,5-Trimethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
1,4-Dichlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
2,2-Dichloropropane	0.0125U	0.0250	0.00780	mg/Kg
2-Butanone (MEK)	0.125U	0.250	0.0780	mg/Kg
2-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
2-Hexanone	0.0500U	0.100	0.0310	mg/Kg
4-Chlorotoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Isopropyltoluene	0.0125U	0.0250	0.00780	mg/Kg
4-Methyl-2-pentanone (MIBK)	0.125U	0.250	0.0780	mg/Kg
Benzene	0.00625U	0.0125	0.00390	mg/Kg
Bromobenzene	0.0125U	0.0250	0.00780	mg/Kg
Bromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromodichloromethane	0.0125U	0.0250	0.00780	mg/Kg
Bromoform	0.0125U	0.0250	0.00780	mg/Kg
Bromomethane	0.100U	0.200	0.0620	mg/Kg
Carbon disulfide	0.0500U	0.100	0.0310	mg/Kg
Carbon tetrachloride	0.00625U	0.0125	0.00390	mg/Kg
Chlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
Chloroethane	0.100U	0.200	0.0620	mg/Kg
Chloroform	0.0125U	0.0250	0.00780	mg/Kg

Method Blank

Blank ID: MB for HBN 1771550 [VXX/31663]
Blank Lab ID: 1424173

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572034

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.0125U	0.0250	0.00780	mg/Kg
cis-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
cis-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Dibromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Dibromomethane	0.0125U	0.0250	0.00780	mg/Kg
Dichlorodifluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Freon-113	0.0500U	0.100	0.0310	mg/Kg
Hexachlorobutadiene	0.0100U	0.0200	0.00620	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
Methylene chloride	0.0500U	0.100	0.0310	mg/Kg
Methyl-t-butyl ether	0.0500U	0.100	0.0310	mg/Kg
Naphthalene	0.0125U	0.0250	0.00780	mg/Kg
n-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
n-Propylbenzene	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
sec-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Styrene	0.0125U	0.0250	0.00780	mg/Kg
tert-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Tetrachloroethene	0.00625U	0.0125	0.00390	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,2-Dichloroethene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Trichloroethene	0.00500U	0.0100	0.00310	mg/Kg
Trichlorofluoromethane	0.0250U	0.0500	0.0150	mg/Kg
Vinyl acetate	0.0500U	0.100	0.0310	mg/Kg
Vinyl chloride	0.00500U	0.0100	0.00310	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	100	71-136		%
4-Bromofluorobenzene (surr)	103	55-151		%
Toluene-d8 (surr)	99.7	85-116		%

Method Blank

Blank ID: MB for HBN 1771550 [VXX/31663]
Blank Lab ID: 1424173

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572034

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS17410
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/2/2017 7:24:00PM

Prep Batch: VXX31663
Prep Method: SW5035A
Prep Date/Time: 11/2/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31663]
Blank Spike Lab ID: 1424174
Date Analyzed: 11/02/2017 19:42

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572034

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,1,1,2-Tetrachloroethane	0.750	0.827	110	(78-125)
1,1,1-Trichloroethane	0.750	0.764	102	(73-130)
1,1,2,2-Tetrachloroethane	0.750	0.778	104	(70-124)
1,1,2-Trichloroethane	0.750	0.766	102	(78-121)
1,1-Dichloroethane	0.750	0.804	107	(76-125)
1,1-Dichloroethene	0.750	0.759	101	(70-131)
1,1-Dichloropropene	0.750	0.803	107	(76-125)
1,2,3-Trichlorobenzene	0.750	0.674	90	(66-130)
1,2,3-Trichloropropane	0.750	0.756	101	(73-125)
1,2,4-Trichlorobenzene	0.750	0.732	98	(67-129)
1,2,4-Trimethylbenzene	0.750	0.809	108	(75-123)
1,2-Dibromo-3-chloropropane	0.750	0.836	111	(61-132)
1,2-Dibromoethane	0.750	0.781	104	(78-122)
1,2-Dichlorobenzene	0.750	0.756	101	(78-121)
1,2-Dichloroethane	0.750	0.738	98	(73-128)
1,2-Dichloropropane	0.750	0.765	102	(76-123)
1,3,5-Trimethylbenzene	0.750	0.818	109	(73-124)
1,3-Dichlorobenzene	0.750	0.761	101	(77-121)
1,3-Dichloropropane	0.750	0.755	101	(77-121)
1,4-Dichlorobenzene	0.750	0.769	103	(75-120)
2,2-Dichloropropane	0.750	0.925	123	(67-133)
2-Butanone (MEK)	2.25	2.39	106	(51-148)
2-Chlorotoluene	0.750	0.815	109	(75-122)
2-Hexanone	2.25	2.23	99	(53-145)
4-Chlorotoluene	0.750	0.800	107	(72-124)
4-Isopropyltoluene	0.750	0.826	110	(73-127)
4-Methyl-2-pentanone (MIBK)	2.25	2.25	100	(65-135)
Benzene	0.750	0.786	105	(77-121)
Bromobenzene	0.750	0.791	105	(78-121)
Bromochloromethane	0.750	0.780	104	(78-125)
Bromodichloromethane	0.750	0.846	113	(75-127)
Bromoform	0.750	0.802	107	(67-132)
Bromomethane	0.750	0.653	87	(53-143)
Carbon disulfide	1.13	1.08	96	(63-132)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31663]
Blank Spike Lab ID: 1424174
Date Analyzed: 11/02/2017 19:42

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572034

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
Carbon tetrachloride	0.750	0.803	107	(70-135)
Chlorobenzene	0.750	0.768	102	(79-120)
Chloroethane	0.750	0.634	85	(59-139)
Chloroform	0.750	0.785	105	(78-123)
Chloromethane	0.750	0.625	83	(50-136)
cis-1,2-Dichloroethene	0.750	0.782	104	(77-123)
cis-1,3-Dichloropropene	0.750	0.852	114	(74-126)
Dibromochloromethane	0.750	0.786	105	(74-126)
Dibromomethane	0.750	0.776	103	(78-125)
Dichlorodifluoromethane	0.750	0.625	83	(29-149)
Ethylbenzene	0.750	0.792	106	(76-122)
Freon-113	1.13	1.08	96	(66-136)
Hexachlorobutadiene	0.750	0.737	98	(61-135)
Isopropylbenzene (Cumene)	0.750	0.805	107	(68-134)
Methylene chloride	0.750	0.670	89	(70-128)
Methyl-t-butyl ether	1.13	1.13	100	(73-125)
Naphthalene	0.750	0.723	96	(62-129)
n-Butylbenzene	0.750	0.801	107	(70-128)
n-Propylbenzene	0.750	0.827	110	(73-125)
o-Xylene	0.750	0.784	105	(77-123)
P & M -Xylene	1.50	1.58	105	(77-124)
sec-Butylbenzene	0.750	0.825	110	(73-126)
Styrene	0.750	0.779	104	(76-124)
tert-Butylbenzene	0.750	0.820	109	(73-125)
Tetrachloroethene	0.750	0.865	115	(73-128)
Toluene	0.750	0.782	104	(77-121)
trans-1,2-Dichloroethene	0.750	0.847	113	(74-125)
trans-1,3-Dichloropropene	0.750	0.862	115	(71-130)
Trichloroethene	0.750	0.817	109	(77-123)
Trichlorofluoromethane	0.750	0.760	101	(62-140)
Vinyl acetate	0.750	0.840	112	(50-151)
Vinyl chloride	0.750	0.639	85	(56-135)
Xylenes (total)	2.25	2.37	105	(78-124)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31663]
Blank Spike Lab ID: 1424174
Date Analyzed: 11/02/2017 19:42

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572034

Results by **SW8260C**

Parameter	Blank Spike (%) Spike	Result	Rec (%)	CL
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	98.6	99	(71-136)
4-Bromofluorobenzene (surr)	0.750	102	102	(55-151)
Toluene-d8 (surr)	0.750	101	101	(85-116)

Batch Information

Analytical Batch: **VMS17410**
Analytical Method: **SW8260C**
Instrument: **VRA Agilent GC/MS 7890B/5977A**
Analyst: **NRO**

Prep Batch: **VXX31663**
Prep Method: **SW5035A**
Prep Date/Time: **11/02/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Matrix Spike Summary

Original Sample ID: 1179505001
MS Sample ID: 1424175 MS
MSD Sample ID: 1424176 MSD

Analysis Date: 11/02/2017 23:48
Analysis Date: 11/02/2017 20:34
Analysis Date: 11/02/2017 20:51
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572034

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	0.0160U	0.596	0.664	111	0.596	0.672	113	78-125	1.30	(< 20)
1,1,1-Trichloroethane	0.0200U	0.596	0.635	107	0.596	0.634	106	73-130	0.28	(< 20)
1,1,2,2-Tetrachloroethane	0.00998U	0.596	0.613	103	0.596	0.632	106	70-124	2.80	(< 20)
1,1,2-Trichloroethane	0.00798U	0.596	0.607	102	0.596	0.625	105	78-121	3.10	(< 20)
1,1-Dichloroethane	0.0200U	0.596	0.660	111	0.596	0.664	111	76-125	0.60	(< 20)
1,1-Dichloroethene	0.0200U	0.596	0.642	108	0.596	0.624	105	70-131	2.60	(< 20)
1,1-Dichloropropene	0.0200U	0.596	0.670	112	0.596	0.664	112	76-125	0.81	(< 20)
1,2,3-Trichlorobenzene	0.0399U	0.596	0.428	72	0.596	0.543	91	66-130	23.60	* (< 20)
1,2,3-Trichloropropane	0.0200U	0.596	0.598	100	0.596	0.611	103	73-125	2.10	(< 20)
1,2,4-Trichlorobenzene	0.0200U	0.596	0.507	85	0.596	0.575	97	67-129	12.50	(< 20)
1,2,4-Trimethylbenzene	0.0399U	0.596	0.643	108	0.596	0.643	108	75-123	0.09	(< 20)
1,2-Dibromo-3-chloropropane	0.0798U	0.596	0.629	106	0.596	0.686	115	61-132	8.80	(< 20)
1,2-Dibromoethane	0.00798U	0.596	0.618	104	0.596	0.642	108	78-122	3.70	(< 20)
1,2-Dichlorobenzene	0.0200U	0.596	0.592	99	0.596	0.588	99	78-121	0.54	(< 20)
1,2-Dichloroethane	0.00798U	0.596	0.598	100	0.596	0.618	104	73-128	3.30	(< 20)
1,2-Dichloropropane	0.00798U	0.596	0.615	103	0.596	0.631	106	76-123	2.70	(< 20)
1,3,5-Trimethylbenzene	0.0200U	0.596	0.643	108	0.596	0.642	108	73-124	0.16	(< 20)
1,3-Dichlorobenzene	0.0200U	0.596	0.604	101	0.596	0.609	102	77-121	0.92	(< 20)
1,3-Dichloropropane	0.00798U	0.596	0.596	100	0.596	0.621	104	77-121	4.10	(< 20)
1,4-Dichlorobenzene	0.0200U	0.596	0.624	105	0.596	0.617	104	75-120	1.10	(< 20)
2,2-Dichloropropane	0.0200U	0.596	0.793	133	0.596	0.776	130	67-133	2.10	(< 20)
2-Butanone (MEK)	0.200U	1.79	1.82	102	1.79	1.99	111	51-148	8.50	(< 20)
2-Chlorotoluene	0.0200U	0.596	0.647	109	0.596	0.645	108	75-122	0.37	(< 20)
2-Hexanone	0.0798U	1.79	1.69	95	1.79	1.86	104	53-145	8.90	(< 20)
4-Chlorotoluene	0.0200U	0.596	0.645	108	0.596	0.624	105	72-124	3.20	(< 20)
4-Isopropyltoluene	0.0200U	0.596	0.622	104	0.596	0.629	105	73-127	1.10	(< 20)
4-Methyl-2-pentanone (MIBK)	0.200U	1.79	1.75	98	1.79	1.90	106	65-135	8.30	(< 20)
Benzene	0.00998U	0.596	0.638	107	0.596	0.648	109	77-121	1.60	(< 20)
Bromobenzene	0.0200U	0.596	0.635	107	0.596	0.631	106	78-121	0.66	(< 20)
Bromochloromethane	0.0200U	0.596	0.672	113	0.596	0.642	108	78-125	4.60	(< 20)
Bromodichloromethane	0.0200U	0.596	0.691	116	0.596	0.706	118	75-127	2.10	(< 20)
Bromoform	0.0200U	0.596	0.631	106	0.596	0.661	111	67-132	4.80	(< 20)
Bromomethane	0.160U	0.596	0.595	100	0.596	0.582	98	53-143	2.20	(< 20)
Carbon disulfide	0.0798U	0.894	0.954	107	0.894	0.913	102	63-132	4.40	(< 20)
Carbon tetrachloride	0.00998U	0.596	0.664	111	0.596	0.660	111	70-135	0.57	(< 20)
Chlorobenzene	0.0200U	0.596	0.613	103	0.596	0.624	105	79-120	1.80	(< 20)
Chloroethane	0.160U	0.596	0.534	90	0.596	0.514	86	59-139	3.80	(< 20)

Print Date: 11/29/2017 8:44:03AM

Matrix Spike Summary

Original Sample ID: 1179505001
MS Sample ID: 1424175 MS
MSD Sample ID: 1424176 MSD

Analysis Date: 11/02/2017 23:48
Analysis Date: 11/02/2017 20:34
Analysis Date: 11/02/2017 20:51
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572034

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroform	0.0200U	0.596	0.644	108	0.596	0.655	110	78-123	1.80	(< 20)
Chloromethane	0.0200U	0.596	0.509	86	0.596	0.535	90	50-136	4.90	(< 20)
cis-1,2-Dichloroethene	0.0200U	0.596	0.640	107	0.596	0.647	109	77-123	1.10	(< 20)
cis-1,3-Dichloropropene	0.00998U	0.596	0.697	117	0.596	0.707	119	74-126	1.40	(< 20)
Dibromochloromethane	0.0200U	0.596	0.629	105	0.596	0.649	109	74-126	3.40	(< 20)
Dibromomethane	0.0200U	0.596	0.632	106	0.596	0.649	109	78-125	2.70	(< 20)
Dichlorodifluoromethane	0.0399U	0.596	0.566	95	0.596	0.543	91	29-149	4.20	(< 20)
Ethylbenzene	0.0200U	0.596	0.640	107	0.596	0.647	109	76-122	1.10	(< 20)
Freon-113	0.0798U	0.894	0.896	100	0.894	0.885	99	66-136	1.20	(< 20)
Hexachlorobutadiene	0.0160U	0.596	0.748	125	0.596	0.722	121	61-135	3.50	(< 20)
Isopropylbenzene (Cumene)	0.0200U	0.596	0.636	107	0.596	0.656	110	68-134	3.10	(< 20)
Methylene chloride	0.0798U	0.596	0.537	90	0.596	0.536	90	70-128	0.15	(< 20)
Methyl-t-butyl ether	0.0798U	0.894	0.898	101	0.894	0.937	105	73-125	4.20	(< 20)
Naphthalene	0.0200U	0.596	0.488	82	0.596	0.592	99	62-129	19.20	(< 20)
n-Butylbenzene	0.0200U	0.596	0.617	103	0.596	0.620	104	70-128	0.61	(< 20)
n-Propylbenzene	0.0200U	0.596	0.648	109	0.596	0.654	110	73-125	0.83	(< 20)
o-Xylene	0.0257	0.596	0.643	104	0.596	0.657	106	77-123	2.20	(< 20)
P & M -Xylene	0.0399U	1.19	1.28	107	1.19	1.31	110	77-124	2.90	(< 20)
sec-Butylbenzene	0.0200U	0.596	0.615	103	0.596	0.643	108	73-126	4.40	(< 20)
Styrene	0.0200U	0.596	0.621	104	0.596	0.635	107	76-124	2.20	(< 20)
tert-Butylbenzene	0.0200U	0.596	0.624	105	0.596	0.634	107	73-125	1.70	(< 20)
Tetrachloroethene	0.00998U	0.596	0.654	110	0.596	0.695	117	73-128	6.10	(< 20)
Toluene	0.0200U	0.596	0.632	106	0.596	0.641	107	77-121	1.30	(< 20)
trans-1,2-Dichloroethene	0.0200U	0.596	0.711	119	0.596	0.694	116	74-125	2.50	(< 20)
trans-1,3-Dichloropropene	0.00998U	0.596	0.695	117	0.596	0.707	119	71-130	1.70	(< 20)
Trichloroethene	0.00798U	0.596	0.669	112	0.596	0.673	113	77-123	0.54	(< 20)
Trichlorofluoromethane	0.0399U	0.596	0.883	148 *	0.596	0.789	132	62-140	11.10	(< 20)
Vinyl acetate	0.0798U	0.596	0.657	110	0.596	0.692	116	50-151	5.10	(< 20)
Vinyl chloride	0.00798U	0.596	0.555	93	0.596	0.549	92	56-135	0.94	(< 20)
Xylenes (total)	0.0599U	1.79	1.92	108	1.79	1.98	110	78-124	2.70	(< 20)
Surrogates										
1,2-Dichloroethane-D4 (surr)		0.596	0.585	98	0.596	0.607	102	71-136	3.70	
4-Bromofluorobenzene (surr)		0.784	0.921	117	0.784	0.894	114	55-151	3.10	
Toluene-d8 (surr)		0.596	0.599	101	0.596	0.603	101	85-116	0.46	

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Matrix Spike Summary

Original Sample ID: 1179505001
MS Sample ID: 1424175 MS
MSD Sample ID: 1424176 MSD

QC for Samples: 1178572034

Analysis Date:
Analysis Date: 11/02/2017 20:34
Analysis Date: 11/02/2017 20:51
Matrix: Soil/Solid (dry weight)

Results by **SW8260C**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: VMS17410
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/2/2017 8:34:00PM

Prep Batch: VXX31663
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 11/2/2017 6:00:00AM
Prep Initial Wt./Vol.: 86.56g
Prep Extract Vol: 31.82mL

Print Date: 11/29/2017 8:44:03AM

Method Blank

Blank ID: MB for HBN 1771601 [VXX/31673]
Blank Lab ID: 1424375

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572029, 1178572030

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.0100U	0.0200	0.00620	mg/Kg
1,1,2-Trichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,2-Dibromoethane	0.00500U	0.0100	0.00310	mg/Kg
1,3-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
2-Hexanone	0.0500U	0.100	0.0310	mg/Kg
Bromoform	0.0125U	0.0250	0.00780	mg/Kg
Chlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
Dibromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
Styrene	0.0125U	0.0250	0.00780	mg/Kg
Tetrachloroethene	0.00625U	0.0125	0.00390	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	94.3	71-136		%
4-Bromofluorobenzene (surr)	99.5	55-151		%
Toluene-d8 (surr)	101	85-116		%

Batch Information

Analytical Batch: VMS17419
Analytical Method: SW8260C
Instrument: VQA 7890/5975 GC/MS
Analyst: NRO
Analytical Date/Time: 11/3/2017 6:03:00PM

Prep Batch: VXX31673
Prep Method: SW5035A
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31673]
Blank Spike Lab ID: 1424376
Date Analyzed: 11/03/2017 18:20

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572029, 1178572030

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,1,1,2-Tetrachloroethane	0.750	0.718	96	(78-125)
1,1,2-Trichloroethane	0.750	0.751	100	(78-121)
1,2-Dibromoethane	0.750	0.771	103	(78-122)
1,3-Dichloropropane	0.750	0.756	101	(77-121)
2-Hexanone	2.25	2.31	103	(53-145)
Bromoform	0.750	0.734	98	(67-132)
Chlorobenzene	0.750	0.750	100	(79-120)
Dibromochloromethane	0.750	0.793	106	(74-126)
Ethylbenzene	0.750	0.773	103	(76-122)
Isopropylbenzene (Cumene)	0.750	0.763	102	(68-134)
o-Xylene	0.750	0.749	100	(77-123)
P & M -Xylene	1.50	1.53	102	(77-124)
Styrene	0.750	0.734	98	(76-124)
Tetrachloroethene	0.750	0.735	98	(73-128)
Toluene	0.750	0.753	100	(77-121)
trans-1,3-Dichloropropene	0.750	0.743	99	(71-130)
Xylenes (total)	2.25	2.28	101	(78-124)
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	92	92	(71-136)
4-Bromofluorobenzene (surr)	0.750	89.1	89	(55-151)
Toluene-d8 (surr)	0.750	95.7	96	(85-116)

Batch Information

Analytical Batch: **VMS17419**
Analytical Method: **SW8260C**
Instrument: **VQA 7890/5975 GC/MS**
Analyst: **NRO**

Prep Batch: **VXX31673**
Prep Method: **SW5035A**
Prep Date/Time: **11/03/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1178566001
MS Sample ID: 1424377 MS
MSD Sample ID: 1424378 MSD

Analysis Date: 11/03/2017 20:39
Analysis Date: 11/03/2017 18:57
Analysis Date: 11/03/2017 19:14
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572029, 1178572030

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	0.0164U	1.23	1.12	91	1.23	1.23	100	78-125	9.30	(< 20)
1,1,2-Trichloroethane	0.00820U	1.23	1.25	102	1.23	1.29	105	78-121	3.30	(< 20)
1,2-Dibromoethane	0.00820U	1.23	1.25	102	1.23	1.31	106	78-122	4.00	(< 20)
1,3-Dichloropropane	0.00820U	1.23	1.21	99	1.23	1.23	100	77-121	1.10	(< 20)
2-Hexanone	0.0820U	3.69	3.30	90	3.69	3.93	107	53-145	17.50	(< 20)
Bromoform	0.0205U	1.23	1.18	96	1.23	1.29	105	67-132	8.30	(< 20)
Chlorobenzene	0.0205U	1.23	1.15	94	1.23	1.24	101	79-120	7.90	(< 20)
Dibromochloromethane	0.0205U	1.23	1.25	102	1.23	1.27	103	74-126	1.60	(< 20)
Ethylbenzene	0.0205U	1.23	1.19	97	1.23	1.29	105	76-122	8.00	(< 20)
Isopropylbenzene (Cumene)	0.0205U	1.23	1.19	97	1.23	1.28	105	68-134	7.20	(< 20)
o-Xylene	0.0205U	1.23	1.17	95	1.23	1.27	104	77-123	8.20	(< 20)
P & M -Xylene	0.0410U	2.46	2.39	97	2.46	2.56	104	77-124	7.10	(< 20)
Styrene	0.0205U	1.23	1.14	93	1.23	1.24	101	76-124	8.30	(< 20)
Tetrachloroethene	0.0103U	1.23	1.12	91	1.23	1.24	101	73-128	10.20	(< 20)
Toluene	0.0205U	1.23	1.15	94	1.23	1.25	102	77-121	8.00	(< 20)
trans-1,3-Dichloropropene	0.0103U	1.23	1.20	98	1.23	1.24	101	71-130	3.50	(< 20)
Xylenes (total)	0.0615U	3.69	3.56	97	3.69	3.83	104	78-124	7.40	(< 20)
Surrogates										
1,2-Dichloroethane-D4 (surr)		1.23	1.27	103	1.23	1.15	93	71-136	10.20	
4-Bromofluorobenzene (surr)		1.31	1.50	114	1.31	1.38	105	55-151	8.30	
Toluene-d8 (surr)		1.23	1.13	92	1.23	1.23	100	85-116	8.60	

Batch Information

Analytical Batch: VMS17419
Analytical Method: SW8260C
Instrument: VQA 7890/5975 GC/MS
Analyst: NRO
Analytical Date/Time: 11/3/2017 6:57:00PM

Prep Batch: VXX31673
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 61.59g
Prep Extract Vol: 39.00mL

Print Date: 11/29/2017 8:44:07AM

Method Blank

Blank ID: MB for HBN 1771605 [VXX/31675]
Blank Lab ID: 1424385

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572005, 1178572006, 1178572007, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572031, 1178572032, 1178572033, 1178572035, 1178572036

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.0100U	0.0200	0.00620	mg/Kg
1,1,2-Trichloroethane	0.00500U	0.0100	0.00310	mg/Kg
1,2,4-Trimethylbenzene	0.0250U	0.0500	0.0150	mg/Kg
1,2-Dibromoethane	0.00500U	0.0100	0.00310	mg/Kg
1,3,5-Trimethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
1,3-Dichloropropane	0.00500U	0.0100	0.00310	mg/Kg
2-Hexanone	0.0500U	0.100	0.0310	mg/Kg
4-Isopropyltoluene	0.0125U	0.0250	0.00780	mg/Kg
Benzene	0.00625U	0.0125	0.00390	mg/Kg
Bromoform	0.0125U	0.0250	0.00780	mg/Kg
Chlorobenzene	0.0125U	0.0250	0.00780	mg/Kg
Dibromochloromethane	0.0125U	0.0250	0.00780	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
Naphthalene	0.0125U	0.0250	0.00780	mg/Kg
n-Propylbenzene	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
sec-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Styrene	0.0125U	0.0250	0.00780	mg/Kg
Tetrachloroethene	0.00625U	0.0125	0.00390	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
trans-1,3-Dichloropropene	0.00625U	0.0125	0.00390	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	102	71-136		%
4-Bromofluorobenzene (surr)	101	55-151		%
Toluene-d8 (surr)	100	85-116		%

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/3/2017 5:52:00PM

Prep Batch: VXX31675
Prep Method: SW5035A
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31675]
Blank Spike Lab ID: 1424386
Date Analyzed: 11/03/2017 18:10

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572005, 1178572006, 1178572007, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572031, 1178572032, 1178572033, 1178572035, 1178572036

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,1,1,2-Tetrachloroethane	0.750	0.829	111	(78-125)
1,1,2-Trichloroethane	0.750	0.777	104	(78-121)
1,2,4-Trimethylbenzene	0.750	0.803	107	(75-123)
1,2-Dibromoethane	0.750	0.792	106	(78-122)
1,3,5-Trimethylbenzene	0.750	0.815	109	(73-124)
1,3-Dichloropropane	0.750	0.768	102	(77-121)
2-Hexanone	2.25	2.24	99	(53-145)
4-Isopropyltoluene	0.750	0.792	106	(73-127)
Benzene	0.750	0.790	105	(77-121)
Bromoform	0.750	0.818	109	(67-132)
Chlorobenzene	0.750	0.769	103	(79-120)
Dibromochloromethane	0.750	0.804	107	(74-126)
Ethylbenzene	0.750	0.798	106	(76-122)
Isopropylbenzene (Cumene)	0.750	0.796	106	(68-134)
Naphthalene	0.750	0.729	97	(62-129)
n-Propylbenzene	0.750	0.825	110	(73-125)
o-Xylene	0.750	0.787	105	(77-123)
P & M -Xylene	1.50	1.58	106	(77-124)
sec-Butylbenzene	0.750	0.784	105	(73-126)
Styrene	0.750	0.786	105	(76-124)
Tetrachloroethene	0.750	0.808	108	(73-128)
Toluene	0.750	0.782	104	(77-121)
trans-1,3-Dichloropropene	0.750	0.879	117	(71-130)
Xylenes (total)	2.25	2.37	105	(78-124)
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	99.9	100	(71-136)
4-Bromofluorobenzene (surr)	0.750	101	101	(55-151)
Toluene-d8 (surr)	0.750	101	101	(85-116)

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31675]
Blank Spike Lab ID: 1424386
Date Analyzed: 11/03/2017 18:10

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572005, 1178572006, 1178572007, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572031, 1178572032, 1178572033, 1178572035, 1178572036

Results by **SW8260C**

	Blank Spike (%)			
Parameter	Spike	Result	Rec (%)	CL

Batch Information

Analytical Batch: **VMS17420**
Analytical Method: **SW8260C**
Instrument: **VRA Agilent GC/MS 7890B/5977A**
Analyst: **NRO**

Prep Batch: **VXX31675**
Prep Method: **SW5035A**
Prep Date/Time: **11/03/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1424393
MS Sample ID: 1424394 MS
MSD Sample ID: 1424395 MSD

Analysis Date: 11/03/2017 21:13
Analysis Date: 11/03/2017 19:09
Analysis Date: 11/03/2017 19:27
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1178572005, 1178572006, 1178572007, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572031, 1178572032, 1178572033, 1178572035, 1178572036

Results by **SW8260C**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	0.00515U	0.385	0.414	107	0.385	0.427	111	78-125	3.10	(< 20)
1,1,2-Trichloroethane	0.00257U	0.385	0.377	98	0.385	0.396	103	78-121	4.90	(< 20)
1,2,4-Trimethylbenzene	0.00937J	0.385	0.398	101	0.385	0.413	105	75-123	3.90	(< 20)
1,2-Dibromoethane	0.00257U	0.385	0.383	100	0.385	0.404	105	78-122	5.30	(< 20)
1,3,5-Trimethylbenzene	0.00640U	0.385	0.391	102	0.385	0.417	108	73-124	6.30	(< 20)
1,3-Dichloropropane	0.00257U	0.385	0.373	97	0.385	0.391	102	77-121	4.80	(< 20)
2-Hexanone	0.0256U	1.15	1.03	89	1.15	1.15	100	53-145	10.80	(< 20)
4-Isopropyltoluene	0.00640U	0.385	0.384	100	0.385	0.405	105	73-127	5.50	(< 20)
Benzene	0.0104	0.385	0.408	103	0.385	0.414	105	77-121	1.50	(< 20)
Bromoform	0.00640U	0.385	0.391	101	0.385	0.418	109	67-132	6.80	(< 20)
Chlorobenzene	0.00640U	0.385	0.384	100	0.385	0.395	103	79-120	2.80	(< 20)
Dibromochloromethane	0.00640U	0.385	0.394	102	0.385	0.414	108	74-126	5.00	(< 20)
Ethylbenzene	0.00834J	0.385	0.400	102	0.385	0.413	105	76-122	3.30	(< 20)
Isopropylbenzene (Cumene)	0.00640U	0.385	0.385	100	0.385	0.406	106	68-134	5.50	(< 20)
Naphthalene	0.00640U	0.385	0.291	76	0.385	0.380	99	62-129	26.40	* (< 20)
n-Propylbenzene	0.00500J	0.385	0.401	103	0.385	0.415	107	73-125	3.60	(< 20)
o-Xylene	0.00640U	0.385	0.392	102	0.385	0.401	104	77-123	2.30	(< 20)
P & M -Xylene	0.0145J	0.770	0.796	102	0.770	0.822	105	77-124	3.20	(< 20)
sec-Butylbenzene	0.00640U	0.385	0.376	98	0.385	0.400	104	73-126	6.30	(< 20)
Styrene	0.00640U	0.385	0.387	101	0.385	0.404	105	76-124	4.30	(< 20)
Tetrachloroethene	0.00321U	0.385	0.419	109	0.385	0.418	109	73-128	0.28	(< 20)
Toluene	0.00783J	0.385	0.393	100	0.385	0.405	103	77-121	3.10	(< 20)
trans-1,3-Dichloropropene	0.00321U	0.385	0.435	113	0.385	0.448	116	71-130	3.00	(< 20)
Xylenes (total)	0.0145J	1.15	1.19	102	1.15	1.22	105	78-124	2.90	(< 20)
Surrogates										
1,2-Dichloroethane-D4 (surr)		0.385	0.376	98	0.385	0.385	100	71-136	2.50	
4-Bromofluorobenzene (surr)		0.642	0.549	86	0.642	0.570	89	55-151	3.80	
Toluene-d8 (surr)		0.385	0.387	101	0.385	0.387	101	85-116	0.00	

Batch Information

Analytical Batch: VMS17420
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/3/2017 7:09:00PM

Prep Batch: VXX31675
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 11/3/2017 6:00:00AM
Prep Initial Wt./Vol.: 97.42g
Prep Extract Vol: 25.00mL

Print Date: 11/29/2017 8:44:11AM

Method Blank

Blank ID: MB for HBN 1771736 [VXX/31689]
Blank Lab ID: 1424728

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572005, 1178572006, 1178572023

Results by **SW8260C**

Parameter	Results	LOQ/CL	DL	Units
1,2,4-Trimethylbenzene	0.0250U	0.0500	0.0150	mg/Kg
1,3,5-Trimethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
4-Isopropyltoluene	0.0125U	0.0250	0.00780	mg/Kg
Benzene	0.00625U	0.0125	0.00390	mg/Kg
Ethylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Isopropylbenzene (Cumene)	0.0125U	0.0250	0.00780	mg/Kg
Naphthalene	0.0125U	0.0250	0.00780	mg/Kg
n-Propylbenzene	0.0125U	0.0250	0.00780	mg/Kg
o-Xylene	0.0125U	0.0250	0.00780	mg/Kg
P & M -Xylene	0.0250U	0.0500	0.0150	mg/Kg
sec-Butylbenzene	0.0125U	0.0250	0.00780	mg/Kg
Toluene	0.0125U	0.0250	0.00780	mg/Kg
Xylenes (total)	0.0375U	0.0750	0.0228	mg/Kg
Surrogates				
1,2-Dichloroethane-D4 (surr)	104	71-136		%
4-Bromofluorobenzene (surr)	104	55-151		%
Toluene-d8 (surr)	97.9	85-116		%

Batch Information

Analytical Batch: VMS17438
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: NRO
Analytical Date/Time: 11/5/2017 7:28:00PM

Prep Batch: VXX31689
Prep Method: SW5035A
Prep Date/Time: 11/5/2017 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31689]
Blank Spike Lab ID: 1424729
Date Analyzed: 11/05/2017 19:46

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572005, 1178572006, 1178572023

Results by **SW8260C**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1,2,4-Trimethylbenzene	0.750	0.736	98	(75-123)
1,3,5-Trimethylbenzene	0.750	0.754	100	(73-124)
4-Isopropyltoluene	0.750	0.739	99	(73-127)
Benzene	0.750	0.742	99	(77-121)
Ethylbenzene	0.750	0.748	100	(76-122)
Isopropylbenzene (Cumene)	0.750	0.760	101	(68-134)
Naphthalene	0.750	0.670	89	(62-129)
n-Propylbenzene	0.750	0.768	102	(73-125)
o-Xylene	0.750	0.742	99	(77-123)
P & M -Xylene	1.50	1.51	101	(77-124)
sec-Butylbenzene	0.750	0.744	99	(73-126)
Toluene	0.750	0.733	98	(77-121)
Xylenes (total)	2.25	2.25	100	(78-124)
Surrogates				
1,2-Dichloroethane-D4 (surr)	0.750	100	100	(71-136)
4-Bromofluorobenzene (surr)	0.750	99.2	99	(55-151)
Toluene-d8 (surr)	0.750	99.8	100	(85-116)

Batch Information

Analytical Batch: **VMS17438**
Analytical Method: **SW8260C**
Instrument: **VRA Agilent GC/MS 7890B/5977A**
Analyst: **NRO**

Prep Batch: **VXX31689**
Prep Method: **SW5035A**
Prep Date/Time: **11/05/2017 06:00**
Spike Init Wt./Vol.: 0.750 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Method Blank

Blank ID: MB for HBN 1771854 [VXX/31694]
Blank Lab ID: 1425056

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572002, 1178572003, 1178572004, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	1.25U	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	96.1	50-150		%

Batch Information

Analytical Batch: VFC13983
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/6/2017 10:36:00PM

Prep Batch: VXX31694
Prep Method: SW5035A
Prep Date/Time: 11/6/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31694]
Blank Spike Lab ID: 1425059
Date Analyzed: 11/06/2017 21:59

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31694]
Spike Duplicate Lab ID: 1425060
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572002, 1178572003, 1178572004, 1178572006, 1178572007, 1178572008, 1178572009, 1178572011

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	13.5	108	12.5	13.2	105	(60-120)	2.40	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	100	100	1.25	97.4	97	(50-150)	2.80	

Batch Information

Analytical Batch: **VFC13983**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31694**
Prep Method: **SW5035A**
Prep Date/Time: **11/06/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1771867 [VXX/31696]
Blank Lab ID: 1425115

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021, 1178572022, 1178572023, 1178572024, 1178572025

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.867J	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	84.8	50-150		%

Batch Information

Analytical Batch: VFC13984
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/7/2017 1:38:00PM

Prep Batch: VXX31696
Prep Method: SW5035A
Prep Date/Time: 11/7/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31696]
Blank Spike Lab ID: 1425118
Date Analyzed: 11/07/2017 12:43

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31696]
Spike Duplicate Lab ID: 1425119
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021, 1178572022, 1178572023, 1178572024, 1178572025

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	13.5	108	12.5	13.0	104	(60-120)	3.40	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	89.6	90	1.25	88.9	89	(50-150)	0.72	

Batch Information

Analytical Batch: **VFC13984**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31696**
Prep Method: **SW5035A**
Prep Date/Time: **11/07/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1772202 [VXX/31724]
Blank Lab ID: 1425858

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572005, 1178572027, 1178572028

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	1.25U	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	85.7	50-150		%

Batch Information

Analytical Batch: VFC13990
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/15/2017 11:39:00AM

Prep Batch: VXX31724
Prep Method: SW5035A
Prep Date/Time: 11/14/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31724]
Blank Spike Lab ID: 1425859
Date Analyzed: 11/15/2017 00:29

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31724]
Spike Duplicate Lab ID: 1425860
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572005, 1178572027, 1178572028

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	10.9	88	12.5	10.9	88	(60-120)	0.08	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	89.7	90	1.25	85.4	85	(50-150)	4.90	

Batch Information

Analytical Batch: **VFC13990**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31724**
Prep Method: **SW5035A**
Prep Date/Time: **11/14/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1772247 [VXX/31728]
Blank Lab ID: 1426087

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572031, 1178572032, 1178572033, 1178572034, 1178572035, 1178572036

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	1.25U	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	90.9	50-150		%

Batch Information

Analytical Batch: VFC13992
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/15/2017 4:39:00PM

Prep Batch: VXX31728
Prep Method: SW5035A
Prep Date/Time: 11/15/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31728]
Blank Spike Lab ID: 1426088
Date Analyzed: 11/15/2017 15:06

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31728]
Spike Duplicate Lab ID: 1426089
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572031, 1178572032, 1178572033, 1178572034, 1178572035, 1178572036

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	12.1	97	12.5	12.1	97	(60-120)	0.18	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	87.8	88	1.25	91.2	91	(50-150)	3.80	

Batch Information

Analytical Batch: **VFC13992**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31728**
Prep Method: **SW5035A**
Prep Date/Time: **11/15/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1772345 [VXX/31734]
Blank Lab ID: 1426272

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572029, 1178572030

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	1.25U	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	83.3	50-150		%

Batch Information

Analytical Batch: VFC13993
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/17/2017 4:00:00AM

Prep Batch: VXX31734
Prep Method: SW5035A
Prep Date/Time: 11/16/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31734]
Blank Spike Lab ID: 1426273
Date Analyzed: 11/17/2017 03:04

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31734]
Spike Duplicate Lab ID: 1426274
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572029, 1178572030

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	10.9	87	12.5	11.5	92	(60-120)	5.40	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	83.1	83	1.25	86.6	87	(50-150)	4.20	

Batch Information

Analytical Batch: **VFC13993**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31734**
Prep Method: **SW5035A**
Prep Date/Time: **11/16/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1772421 [VXX/31741]
Blank Lab ID: 1426402

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572026

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	1.25U	2.50	0.750	mg/Kg
Surrogates				
4-Bromofluorobenzene (surr)	88.6	50-150		%

Batch Information

Analytical Batch: VFC13995
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: NRB
Analytical Date/Time: 11/18/2017 6:18:00AM

Prep Batch: VXX31741
Prep Method: SW5035A
Prep Date/Time: 11/17/2017 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [VXX31741]
Blank Spike Lab ID: 1426403
Date Analyzed: 11/18/2017 05:22

Spike Duplicate ID: LCSD for HBN 1178572 [VXX31741]
Spike Duplicate Lab ID: 1426404
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572026

Results by **AK101**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	12.5	12.0	96	12.5	11.2	90	(60-120)	7.10	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	1.25	93.1	93	1.25	92.2	92	(50-150)	0.97	

Batch Information

Analytical Batch: **VFC13995**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **NRB**

Prep Batch: **VXX31741**
Prep Method: **SW5035A**
Prep Date/Time: **11/17/2017 00:30**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1771316 [XXX/38784]
Blank Lab ID: 1423505

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572003, 1178572004, 1178572011, 1178572014, 1178572016, 1178572018, 1178572020, 1178572023, 1178572026, 1178572027, 1178572031, 1178572033

Results by **8270D SIM (PAH)**

Parameter	Results	LOQ/CL	DL	Units
1-Methylnaphthalene	0.0125U	0.0250	0.00750	mg/Kg
2-Methylnaphthalene	0.0125U	0.0250	0.00750	mg/Kg
Acenaphthene	0.0125U	0.0250	0.00750	mg/Kg
Acenaphthylene	0.0125U	0.0250	0.00750	mg/Kg
Anthracene	0.0125U	0.0250	0.00750	mg/Kg
Benzo(a)Anthracene	0.0125U	0.0250	0.00750	mg/Kg
Benzo[a]pyrene	0.0125U	0.0250	0.00750	mg/Kg
Benzo[b]Fluoranthene	0.0125U	0.0250	0.00750	mg/Kg
Benzo[g,h,i]perylene	0.0125U	0.0250	0.00750	mg/Kg
Benzo[k]fluoranthene	0.0125U	0.0250	0.00750	mg/Kg
Chrysene	0.0125U	0.0250	0.00750	mg/Kg
Dibenzo[a,h]anthracene	0.0125U	0.0250	0.00750	mg/Kg
Fluoranthene	0.0125U	0.0250	0.00750	mg/Kg
Fluorene	0.0125U	0.0250	0.00750	mg/Kg
Indeno[1,2,3-c,d] pyrene	0.0125U	0.0250	0.00750	mg/Kg
Naphthalene	0.0100U	0.0200	0.00600	mg/Kg
Phenanthrene	0.0125U	0.0250	0.00750	mg/Kg
Pyrene	0.0125U	0.0250	0.00750	mg/Kg
Surrogates				
2-Methylnaphthalene-d10 (surr)	80.3	50-150		%
Fluoranthene-d10 (surr)	82.6	50-150		%

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Instrument: SVA Agilent 780/5975 GC/MS
Analyst: DSH
Analytical Date/Time: 11/18/2017 4:08:00PM

Prep Batch: XXX38784
Prep Method: SW3550C
Prep Date/Time: 11/1/2017 9:14:15AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38784]
Blank Spike Lab ID: 1423506
Date Analyzed: 11/18/2017 16:28

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572003, 1178572004, 1178572011, 1178572014, 1178572016, 1178572018, 1178572020, 1178572023, 1178572026, 1178572027, 1178572031, 1178572033

Results by **8270D SIM (PAH)**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
1-Methylnaphthalene	0.111	0.0920	83	(43-111)
2-Methylnaphthalene	0.111	0.0855	77	(39-114)
Acenaphthene	0.111	0.0950	86	(44-111)
Acenaphthylene	0.111	0.0935	84	(39-116)
Anthracene	0.111	0.0983	89	(50-114)
Benzo(a)Anthracene	0.111	0.102	91	(54-122)
Benzo[a]pyrene	0.111	0.0942	85	(50-125)
Benzo[b]Fluoranthene	0.111	0.101	91	(53-128)
Benzo[g,h,i]perylene	0.111	0.102	92	(49-127)
Benzo[k]fluoranthene	0.111	0.104	94	(56-123)
Chrysene	0.111	0.108	97	(57-118)
Dibenzo[a,h]anthracene	0.111	0.0997	90	(50-129)
Fluoranthene	0.111	0.101	91	(55-119)
Fluorene	0.111	0.0978	88	(47-114)
Indeno[1,2,3-c,d] pyrene	0.111	0.103	93	(49-130)
Naphthalene	0.111	0.0845	76	(38-111)
Phenanthrene	0.111	0.0998	90	(49-113)
Pyrene	0.111	0.106	96	(55-117)
Surrogates				
2-Methylnaphthalene-d10 (surr)	0.111	75.7	76	(50-150)
Fluoranthene-d10 (surr)	0.111	79.9	80	(50-150)

Batch Information

Analytical Batch: **XMS10557**
Analytical Method: **8270D SIM (PAH)**
Instrument: **SVA Agilent 780/5975 GC/MS**
Analyst: **DSH**

Prep Batch: **XXX38784**
Prep Method: **SW3550C**
Prep Date/Time: **11/01/2017 09:14**
Spike Init Wt./Vol.: 0.111 mg/Kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1178572016
MS Sample ID: 1423507 MS
MSD Sample ID: 1423508 MSD

Analysis Date: 11/18/2017 22:15
Analysis Date: 11/18/2017 22:35
Analysis Date: 11/18/2017 22:56
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572003, 1178572004, 1178572011, 1178572014, 1178572016, 1178572018, 1178572020, 1178572023, 1178572026, 1178572027, 1178572031, 1178572033

Results by **8270D SIM (PAH)**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1-Methylnaphthalene	0.0127U	0.113	0.0982	87	0.115	0.0994	87	43-111	1.20	(< 20)
2-Methylnaphthalene	0.0127U	0.113	0.0908	81	0.115	0.0926	81	39-114	2.00	(< 20)
Acenaphthene	0.0127U	0.113	0.0980	87	0.115	0.0986	86	44-111	0.50	(< 20)
Acenaphthylene	0.0127U	0.113	0.0977	87	0.115	0.0999	88	39-116	2.20	(< 20)
Anthracene	0.0127U	0.113	0.0987	88	0.115	0.0999	88	50-114	1.30	(< 20)
Benzo(a)Anthracene	0.0127U	0.113	0.100	89	0.115	0.102	90	54-122	1.70	(< 20)
Benzo[a]pyrene	0.0127U	0.113	0.0946	84	0.115	0.0972	85	50-125	2.70	(< 20)
Benzo[b]Fluoranthene	0.0127U	0.113	0.101	90	0.115	0.102	89	53-128	0.73	(< 20)
Benzo[g,h,i]perylene	0.0127U	0.113	0.0972	87	0.115	0.100	88	49-127	3.00	(< 20)
Benzo[k]fluoranthene	0.0127U	0.113	0.100	89	0.115	0.104	91	56-123	3.90	(< 20)
Chrysene	0.0127U	0.113	0.104	93	0.115	0.107	94	57-118	2.40	(< 20)
Dibenzo[a,h]anthracene	0.0127U	0.113	0.0969	86	0.115	0.0994	87	50-129	2.50	(< 20)
Fluoranthene	0.0127U	0.113	0.102	91	0.115	0.104	91	55-119	2.10	(< 20)
Fluorene	0.0127U	0.113	0.0997	89	0.115	0.101	89	47-114	1.40	(< 20)
Indeno[1,2,3-c,d] pyrene	0.0127U	0.113	0.0977	87	0.115	0.100	88	49-130	2.40	(< 20)
Naphthalene	0.0102U	0.113	0.0918	82	0.115	0.0926	81	38-111	0.85	(< 20)
Phenanthrene	0.0127U	0.113	0.0995	89	0.115	0.101	88	49-113	1.30	(< 20)
Pyrene	0.0127U	0.113	0.107	95	0.115	0.108	95	55-117	1.40	(< 20)
Surrogates										
2-Methylnaphthalene-d10 (surr)		0.113	0.0866	77	0.115	0.0885	78	50-150	2.20	
Fluoranthene-d10 (surr)		0.113	0.0905	81	0.115	0.0930	82	50-150	2.80	

Batch Information

Analytical Batch: XMS10557
Analytical Method: 8270D SIM (PAH)
Instrument: SVA Agilent 780/5975 GC/MS
Analyst: DSH
Analytical Date/Time: 11/18/2017 10:35:00PM

Prep Batch: XXX38784
Prep Method: Sonication Extr Soil 8270 PAH SIM 5ml
Prep Date/Time: 11/1/2017 9:14:15AM
Prep Initial Wt./Vol.: 22.97g
Prep Extract Vol: 5.00mL

Print Date: 11/29/2017 8:44:41AM

Method Blank

Blank ID: MB for HBN 1771320 [XXX/38786]
Blank Lab ID: 1423529

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033, 1178572034

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
5a Androstane (surr)	83.9	60-120		%

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: JMG
Analytical Date/Time: 11/3/2017 7:28:00PM

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/1/2017 10:13:41AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38786]
Blank Spike Lab ID: 1423530
Date Analyzed: 11/03/2017 19:38

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38786]
Spike Duplicate Lab ID: 1423531
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033, 1178572034

Results by **AK102**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	167	156	94	167	164	98	(75-125)	4.60	(< 20)
Surrogates									
5a Androstane (surr)	3.33	96.4	96	3.33	101	101	(60-120)	4.20	

Batch Information

Analytical Batch: **XFC13947**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **JMG**

Prep Batch: **XXX38786**
Prep Method: **SW3550C**
Prep Date/Time: **11/01/2017 10:13**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771320 [XXX/38786]
Blank Lab ID: 1423529

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033, 1178572034

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
n-Triacontane-d62 (surr)	93.5	60-120		%

Batch Information

Analytical Batch: XFC13947
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: JMG
Analytical Date/Time: 11/3/2017 7:28:00PM

Prep Batch: XXX38786
Prep Method: SW3550C
Prep Date/Time: 11/1/2017 10:13:41AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38786]
Blank Spike Lab ID: 1423530
Date Analyzed: 11/03/2017 19:38

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38786]
Spike Duplicate Lab ID: 1423531
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572022, 1178572023, 1178572024, 1178572025, 1178572026, 1178572027, 1178572028, 1178572029, 1178572030, 1178572031, 1178572032, 1178572033, 1178572034

Results by **AK103**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	167	156	93	167	157	94	(60-120)	0.89	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	3.33	91.7	92	3.33	94.5	95	(60-120)	3.00	

Batch Information

Analytical Batch: **XFC13947**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **JMG**

Prep Batch: **XXX38786**
Prep Method: **SW3550C**
Prep Date/Time: **11/01/2017 10:13**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771330 [XXX/38787]
Blank Lab ID: 1423585

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
5a Androstane (surr)	73.7	60-120		%

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: CMS
Analytical Date/Time: 11/4/2017 5:25:00PM

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/1/2017 11:35:08AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38787]
Blank Spike Lab ID: 1423586
Date Analyzed: 11/04/2017 17:34

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38787]
Spike Duplicate Lab ID: 1423587
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021

Results by **AK102**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	167	158	95	167	159	95	(75-125)	0.37	(< 20)
Surrogates									
5a Androstane (surr)	3.33	94.1	94	3.33	94.8	95	(60-120)	0.73	

Batch Information

Analytical Batch: **XFC13951**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **CMS**

Prep Batch: **XXX38787**
Prep Method: **SW3550C**
Prep Date/Time: **11/01/2017 11:35**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771330 [XXX/38787]
Blank Lab ID: 1423585

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
n-Triacontane-d62 (surr)	78.3	60-120		%

Batch Information

Analytical Batch: XFC13951
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: CMS
Analytical Date/Time: 11/4/2017 5:25:00PM

Prep Batch: XXX38787
Prep Method: SW3550C
Prep Date/Time: 11/1/2017 11:35:08AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38787]
Blank Spike Lab ID: 1423586
Date Analyzed: 11/04/2017 17:34

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38787]
Spike Duplicate Lab ID: 1423587
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572013, 1178572014, 1178572015, 1178572016, 1178572017, 1178572018, 1178572019, 1178572020, 1178572021

Results by **AK103**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	167	157	94	167	154	93	(60-120)	1.50	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	3.33	90.1	90	3.33	90.1	90	(60-120)	0.06	

Batch Information

Analytical Batch: **XFC13951**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **CMS**

Prep Batch: **XXX38787**
Prep Method: **SW3550C**
Prep Date/Time: **11/01/2017 11:35**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771435 [XXX/38796]
Blank Lab ID: 1423908

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572037

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
5a Androstane (surr)	78.1	60-120		%

Batch Information

Analytical Batch: XFC13959
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: JMG
Analytical Date/Time: 11/8/2017 1:22:00AM

Prep Batch: XXX38796
Prep Method: SW3550C
Prep Date/Time: 11/2/2017 1:10:20PM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38796]
Blank Spike Lab ID: 1423909
Date Analyzed: 11/08/2017 01:32

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38796]
Spike Duplicate Lab ID: 1423910
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572037

Results by **AK102**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	167	164	99	167	139	84	(75-125)	16.30	(< 20)
Surrogates									
5a Androstane (surr)	3.33	95.8	96	3.33	83	83	(60-120)	14.30	

Batch Information

Analytical Batch: **XFC13959**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **JMG**

Prep Batch: **XXX38796**
Prep Method: **SW3550C**
Prep Date/Time: **11/02/2017 13:10**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771435 [XXX/38796]
Blank Lab ID: 1423908

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572037

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	10.0U	20.0	6.20	mg/Kg
Surrogates				
n-Triacontane-d62 (surr)	84	60-120		%

Batch Information

Analytical Batch: XFC13959
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: JMG
Analytical Date/Time: 11/8/2017 1:22:00AM

Prep Batch: XXX38796
Prep Method: SW3550C
Prep Date/Time: 11/2/2017 1:10:20PM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38796]
Blank Spike Lab ID: 1423909
Date Analyzed: 11/08/2017 01:32

Spike Duplicate ID: LCSD for HBN 1178572 [XXX38796]
Spike Duplicate Lab ID: 1423910
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572037

Results by **AK103**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	167	167	100	167	139	83	(60-120)	18.30	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	3.33	96.9	97	3.33	86.5	87	(60-120)	11.40	

Batch Information

Analytical Batch: **XFC13959**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **JMG**

Prep Batch: **XXX38796**
Prep Method: **SW3550C**
Prep Date/Time: **11/02/2017 13:10**
Spike Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL
Dupe Init Wt./Vol.: 167 mg/Kg Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1771609 [XXX/38809]
Blank Lab ID: 1424406

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572037

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	Units
Aroclor-1016	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1221	0.100U	0.200	0.0620	mg/Kg
Aroclor-1232	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1242	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1248	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1254	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1260	0.0250U	0.0500	0.0150	mg/Kg
Surrogates				
Decachlorobiphenyl (surr)	119	60-125		%

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Instrument: HP 6890 Series II ECD SV H F
Analyst: BMZ
Analytical Date/Time: 11/8/2017 10:14:00AM

Prep Batch: XXX38809
Prep Method: SW3550C
Prep Date/Time: 11/6/2017 1:47:17PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178572 [XXX38809]
Blank Spike Lab ID: 1424407
Date Analyzed: 11/08/2017 10:29

Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572037

Results by **SW8082A**

Blank Spike (mg/Kg)

Parameter	Spike	Result	Rec (%)	CL
Aroclor-1016	0.222	0.180	81	(47-134)
Aroclor-1260	0.222	0.242	109	(53-140)
Surrogates				
Decachlorobiphenyl (surr)	0.222	118	118	(60-125)

Batch Information

Analytical Batch: **XGC9948**
Analytical Method: **SW8082A**
Instrument: **HP 6890 Series II ECD SV H F**
Analyst: **BMZ**

Prep Batch: **XXX38809**
Prep Method: **SW3550C**
Prep Date/Time: **11/06/2017 13:47**
Spike Init Wt./Vol.: 0.222 mg/Kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1178572006
MS Sample ID: 1424408 MS
MSD Sample ID: 1424409 MSD

Analysis Date: 11/08/2017 11:58
Analysis Date: 11/08/2017 12:12
Analysis Date: 11/08/2017 12:27
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178572001, 1178572002, 1178572003, 1178572004, 1178572005, 1178572006, 1178572007, 1178572008, 1178572009, 1178572010, 1178572011, 1178572012, 1178572037

Results by **SW8082A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	0.0295U	0.258	0.273	106	0.259	0.265	102	47-134	3.49	(< 30)
Aroclor-1260	0.0295U	0.258	0.302	117	0.259	0.265	102	53-140	13.30	(< 30)
Surrogates										
Decachlorobiphenyl (surr)		0.258	0.297	115	0.259	0.298	115	60-125	0.35	

Batch Information

Analytical Batch: XGC9948
Analytical Method: SW8082A
Instrument: HP 6890 Series II ECD SV H F
Analyst: BMZ
Analytical Date/Time: 11/8/2017 12:12:00PM

Prep Batch: XXX38809
Prep Method: Sonication Extraction Soil SW8080 PCB
Prep Date/Time: 11/6/2017 1:47:17PM
Prep Initial Wt./Vol.: 23.00g
Prep Extract Vol: 5.00mL

Print Date: 11/29/2017 8:45:11AM

1178572

CHAIN-OF-CUSTODY RECORD

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

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2355 Hill Road
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Pasco, WA 99301-3378
(509) 946-6309

Laboratory SGS Page 1 of 4
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101 / VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM	RCRA 8 Metals 6020A	PCBs 8082A	Total Number of Containers	Remarks/Matrix
DB-1	1 A-B	12:05	10-21-17		X	X	X	X	X	X	3	
DB-2	2 A-B	12:10	10-21-17			X	X	X	X	X	3	
FK-1	3 A-B	13:15	10-22-17			X	X	X	X	X	3	
FK-11	4 A-B	13:10				X	X	X	X	X	3	
FK-2	5 A-B	13:30				X	X	X		X	3	2 vials of MeOH added
FK-3	6 A-B	13:45				X	X	X		X	3	
FK-4	7 A-B	13:55				X	X	X		X	3	
FK-5	8 A-B	14:00				X	X	X		X	3	
FK-6	9 A-B	14:05				X	X	X		X	3	
FK-7	10 A					~~ALE~~	X	X	X	X	1	Prioritize PCBs, Run other analyses if able.

Project Information		Sample Receipt	
Project Number:	20056-007	Total Number of Containers	
Project Name:	Miller Salvage	COC Seals/Intact? Y/N/NA	
Contact:	ALF	Received Good Cond./Cold	
Ongoing Project?	Yes ☒ No ☐	Delivery Method:	Hand
Sampler:	ALF	(attach shipping bill, if any)	

Instructions	
Requested Turnaround Time:	Standard
Special Instructions:	Bill to SWI

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Fitz Time: 16:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fitz Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

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F-19-91/UR

TB 1.6.07

ANC: TB: 0.9 #D41 CS: 1F, 1B
#S: 1.0 #D3C

No. 34772

1178572

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CHAIN OF CUSTODY RECORD

Laboratory SGS Page 2 of 4
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM	PCBs 8082A		Total Number of Containers	Remarks/Matrix
CW-1	(11) A-B	14:45	10-22-17		X	X	X	X	X	X		3	
CW-2	(12) A	14:50			X	~~X~~	~~X~~			X		1	
GC-1	(13) A-B	16:05			X	X	X	X				3	
GC-2	(14) A-B	16:10			X	X	X	X	X			3	
PYR-1	(15) A-B	17:05			X	X	X	X				3	
PYR-2	(16) A-B	17:10			X	X	X	X	X			3	
SF-1	(17) A-B	17:35			X	X	X	X				3	
SF-2	(18) A-B	17:40			X	X	X	X	X			3	
CE-1	(19) A-B	18:15			X	X	X	X				3	
NCHS-1	(20) A-B	13:55	10-23-17		X	X	X	X	X			3	

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 1625	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fridl Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

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F-19-91/UR

TB 1.6.07

No. 34769

1178572

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

CHAIN-OF-CUSTODY RECORD

Page 3 of 4

Laboratory SGS

Attn:

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600

2255 S.W. Canyon Road
Portland, OR 97201-2498
(503) 223-6147

2043 Westport Center Drive
St. Louis, MO 63146-3564
(314) 699-9660

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907) 561-2120

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM			Total Number of Containers	Remarks/Matrix
NCHS-2	(21) A-B	14:00	10-23-17		X	X	X	X				3	
NCHS-3	(22) A-B	14:05				X	X	X				3	
NCHW-1	(23) A-B	16:30				X	X	X	X			3	
NCHW-2	(24) A-B	16:35				X	X	X				3	
NCHW-12	(25) A-B	16:25				X	X	X				3	
NCHE-1	(26) A-B	10:55	10-27-17			X	X	X	X			3	
NCHE-11	(27) A-B	10:45				X	X	X	X			3	
NCHE-2	(28) A-B	11:00				X	X	X				3	
NCHE-3	(29) A-B	11:05				X	X	X				3	
NCHE-4	(30) A-B	11:10				X	X	X				3	

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 16:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

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TB 1.6, 0.7

No. 34770

1178572

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

400 N. 34th Street, Suite 100
Seattle, WA 98103
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2355 Hill Road
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(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

CHAIN-C ...ODY RECORD

Laboratory SGS Page 4 of 6
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM			Total Number of Containers	Remarks/Matrix
NCHN-1	(31) A-B	11:35	10-27-17		X	X	X	X	X			3	
NCHN-2	(32) A-B	11:40	"		"	X	X	X				3	
Loader-1	(33) A-B	12:20	"		"	X	X	X	X			3	
Loader-2	(34) A-B	12:25	"		"	X	X	X				3	
Trip Blank	(35) A					X	X						
Trip Blank	(36) A					X	X						

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 16:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Frick Date: 10-27-17	Printed Name: Nicole Warren Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 1.6.07

No. 34771

SGS

1178572

~~SGS EDD#~~

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	□*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 1.6 w/Therm. ID: D28 Cooler ID: 2 @ 0.7 w/Therm. ID: D25 Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	(Yes) No Yes No ~~N/A~~ Yes No (N/A)	□*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: ~~Client (hand carried)~~ Other: ____	Tracking/AB# : Or see attached ~~Or N/A~~	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): ~~Bubble Wrap~~ Separate plastic bags Vermiculite Other: ____	~~Yes~~ No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	~~Yes~~ No N/A	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No ~~N/A~~ Yes No (N/A)	

Additional notes (if applicable):

Profile #: 337923

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

SGS

Cooler Packing Form For Fairbanks

Cooler ID 5 Cooler Temperature 1.0 #D36

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178572	All Samples DRO/PCB/Metals/PAH	
1178569	All Samples	
1178571	All Samples	

SGS

Cooler Packing Form For Fairbanks

Cooler ID 6 Cooler Temperature 0.9 #041

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178572	All Samples GRO & VOC	

1178572 1178572

NW 1613

CHAIN-OF-CUSTODY RECORD

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Laboratory SGS Page 1 of 1
Attn:

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600

2255 S.W. Canyon Road
Portland, OR 97201-2498
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(907) 561-2120

1321 Bannock Street, Suite 200
Denver, CO 80204
(303) 825-3800

2705 Saint Andrews Loop, Suite A
Pasco, WA 99301-3378
(509) 946-6309

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	DRO/RRO AK102/103	RCRA 4 Metals 6020A	PCBs 8082A	Total Number of Containers	Remarks/Matrix
FK-8	(37)A	15:05	10-22-17		X	X	X	X	1	

Project Information		Sample Receipt	
Project Number:	20056-007	Total Number of Containers	1
Project Name:	Miller Salvage	COC Seals/Intact? Y/N/NA	NA/NA
Contact:	ALF	Received Good Cond./Cold	1.0
Ongoing Project?	Yes ☒ No ☐	Delivery Method:	D40
Sampler:	ALF	(attach shipping bill, if any)	Hand

Instructions

Requested Turnaround Time:

Special Instructions: Add to WO 1178572
Bill to SWI

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Fitch	Signature:	Signature:
Time: 1025	Time: 1600	Time:
Printed Name: Andrew Fitch	Printed Name: Nicole Warner	Printed Name:
Date: 10-31-17	Date: 11/1/17	Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature:	Signature:	Signature:
Time: 1025	Time:	Time: 1033
Printed Name: Nicole Warner	Printed Name:	Printed Name: Hannah Deeney
Date: 10/31/17	Date:	Date: 11/2/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

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TB 1.8

No. 34275

SGS

1178572

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	□*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 1.8 w/Therm. ID: D25 Cooler ID:____ @____ w/Therm. ID:____ Cooler ID:____ @____ w/Therm. ID:____ Cooler ID:____ @____ w/Therm. ID:____ Cooler ID:____ @____ w/Therm. ID:____ If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	(Yes) No Yes No ~~N/A~~ Yes No (N/A)	□*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: (Client (hand carried)) Other:____	Tracking/AB# : Or ~~see attached~~ (Or N/A)	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble Wrap) Separate plastic bags Vermiculite Other:____	(Yes) No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	Yes No (N/A)	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No ~~N/A~~ Yes No (N/A)	

Additional notes (if applicable):

Add to WO # 1178572.

Profile #: 337923

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

SGS

Cooler Packing Form For Fairbanks

Cooler ID (1)

Cooler Temperature 1.0 D40

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178574	ALL	
1178572	ALL	
~~1180~~ 11/2/17 ~~116~~ 1178577	ALL	

e-Sample Receipt Form

SGS Workorder #: **1178572**

1 1 7 8 5 7 2

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements	n/a	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	yes	1-F, 1-B
COC accompanied samples?	yes	
n/a **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	yes	Cooler ID: 5 @ 1.0 °C Therm. ID: D36
	yes	Cooler ID: 6 @ 0.9 °C Therm. ID: D41
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
If >6°C, were samples collected <8 hours ago?	n/a	
If <0°C, were sample containers ice free?	n/a	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		Cooler 1: 1.0 D40
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	yes	The collection time for Sample 10 is 15:00 per the jar.
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	yes	
	n/a	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	yes	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	n/a	
Were all soil VOAs field extracted with MeOH+BFB?	yes	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample 37A received in Cooler 1 on 11/02/17 @ 10:33 and added to this WO.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1178572001-A	No Preservative Required	OK
1178572001-B	Methanol field pres. 4 C	OK
1178572002-A	No Preservative Required	OK
1178572002-B	Methanol field pres. 4 C	OK
1178572003-A	No Preservative Required	OK
1178572003-B	Methanol field pres. 4 C	OK
1178572004-A	No Preservative Required	OK
1178572004-B	Methanol field pres. 4 C	OK
1178572005-A	No Preservative Required	OK
1178572005-B	2x Methanol field pres. 4 C	OK
1178572006-A	No Preservative Required	OK
1178572006-B	Methanol field pres. 4 C	OK
1178572007-A	No Preservative Required	OK
1178572007-B	Methanol field pres. 4 C	OK
1178572008-A	No Preservative Required	OK
1178572008-B	Methanol field pres. 4 C	OK
1178572009-A	No Preservative Required	OK
1178572009-B	Methanol field pres. 4 C	OK
1178572010-A	No Preservative Required	OK
1178572011-A	No Preservative Required	OK
1178572011-B	Methanol field pres. 4 C	OK
1178572012-A	No Preservative Required	OK
1178572013-A	No Preservative Required	OK
1178572013-B	Methanol field pres. 4 C	OK
1178572014-A	No Preservative Required	OK
1178572014-B	Methanol field pres. 4 C	OK
1178572015-A	No Preservative Required	OK
1178572015-B	Methanol field pres. 4 C	OK
1178572016-A	No Preservative Required	OK
1178572016-B	Methanol field pres. 4 C	OK
1178572017-A	No Preservative Required	OK
1178572017-B	Methanol field pres. 4 C	OK
1178572018-A	No Preservative Required	OK
1178572018-B	Methanol field pres. 4 C	OK
1178572019-A	No Preservative Required	OK
1178572019-B	Methanol field pres. 4 C	OK
1178572020-A	No Preservative Required	OK
1178572020-B	Methanol field pres. 4 C	OK
1178572021-A	No Preservative Required	OK
1178572021-B	Methanol field pres. 4 C	OK
1178572022-A	No Preservative Required	OK
1178572022-B	Methanol field pres. 4 C	OK
1178572023-A	No Preservative Required	OK
1178572023-B	Methanol field pres. 4 C	OK
1178572024-A	No Preservative Required	OK
1178572024-B	Methanol field pres. 4 C	OK
1178572025-A	No Preservative Required	OK
1178572025-B	Methanol field pres. 4 C	OK
1178572026-A	No Preservative Required	OK
1178572026-B	Methanol field pres. 4 C	OK
1178572027-A	No Preservative Required	OK
1178572027-B	Methanol field pres. 4 C	OK
1178572028-A	No Preservative Required	OK
1178572028-B	Methanol field pres. 4 C	OK
1178572029-A	No Preservative Required	OK
1178572029-B	Methanol field pres. 4 C	OK
1178572030-A	No Preservative Required	OK
1178572030-B	Methanol field pres. 4 C	OK
1178572031-A	No Preservative Required	OK
1178572031-B	Methanol field pres. 4 C	OK
1178572032-A	No Preservative Required	OK
1178572032-B	Methanol field pres. 4 C	OK
1178572033-A	No Preservative Required	OK
1178572033-B	Methanol field pres. 4 C	OK
1178572034-A	No Preservative Required	OK
1178572034-B	Methanol field pres. 4 C	OK
1178572035-A	Methanol field pres. 4 C	OK
1178572036-A	Methanol field pres. 4 C	OK
1178572037-A	No Preservative Required	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

To: Shannon & Wilson-Fairbanks
2355 Hill Road
Fairbanks, AK 99709
(907)749-0600

Report Number: **1178686**

Client Project: **20056-007 Miller Salvage**

Dear Andrew Frick,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jennifer at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Jennifer Dawkins Date
Project Manager
Jennifer.Dawkins@sgs.com

Print Date: 01/08/2018 4:30:00PM

Case Narrative

SGS Client: **Shannon & Wilson-Fairbanks**
SGS Project: **1178686**
Project Name/Site: **20056-007 Miller Salvage**
Project Contact: **Andrew Frick**

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are **AK00971 DW Chemistry (Provisionally Certified as of 10/12/2017) & Microbiology (Provisionally Certified as of 9/21/2017)** & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
CE-1	1178686001	10/22/2017	12/28/2017	Soil/Solid (dry weight)

Method	Method Description
SM21 2540G	Percent Solids SM2540G
SW8082A	SW8082 PCB's

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Results of **CE-1**

Client Sample ID: **CE-1**
Client Project ID: **20056-007 Miller Salvage**
Lab Sample ID: 1178686001
Lab Project ID: 1178686

Collection Date: 10/22/17 18:15
Received Date: 12/28/17 16:10
Matrix: Soil/Solid (dry weight)
Solids (%):76.9
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Aroclor-1221	0.128	U	0.256	0.0793	mg/Kg	1		01/03/18 15:45
Aroclor-1232	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Aroclor-1242	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Aroclor-1248	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Aroclor-1254	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Aroclor-1260	0.0320	U	0.0640	0.0192	mg/Kg	1		01/03/18 15:45
Surrogates								
Decachlorobiphenyl (surr)	97		60-125		%	1		01/03/18 15:45

Batch Information

Analytical Batch: XGC9985
Analytical Method: SW8082A
Analyst: BMZ
Analytical Date/Time: 01/03/18 15:45
Container ID: 1178686001-A

Prep Batch: XXX38969
Prep Method: SW3550C
Prep Date/Time: 01/03/18 08:32
Prep Initial Wt./Vol.: 22.862 g
Prep Extract Vol: 5 mL

Print Date: 01/08/2018 4:30:05PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1773794 [SPT/10389]
Blank Lab ID: 1430676

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178686001

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	Units
Total Solids	100			%

Batch Information

Analytical Batch: SPT10389
Analytical Method: SM21 2540G
Instrument:
Analyst: A.L
Analytical Date/Time: 1/3/2018 4:52:00PM

Print Date: 01/08/2018 4:30:06PM

Duplicate Sample Summary

Original Sample ID: 1178995009
Duplicate Sample ID: 1430677
QC for Samples:
1178686001

Analysis Date: 01/03/2018 16:52
Matrix: Soil/Solid (dry weight)

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	84.1	84.2	%	0.06	(< 15)

Batch Information

Analytical Batch: SPT10389
Analytical Method: SM21 2540G
Instrument:
Analyst: A.L

Print Date: 01/08/2018 4:30:07PM

Method Blank

Blank ID: MB for HBN 1773755 [XXX/38969]
Blank Lab ID: 1430518

Matrix: Soil/Solid (dry weight)

QC for Samples:
1178686001

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	Units
Aroclor-1016	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1221	0.100U	0.200	0.0620	mg/Kg
Aroclor-1232	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1242	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1248	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1254	0.0250U	0.0500	0.0150	mg/Kg
Aroclor-1260	0.0250U	0.0500	0.0150	mg/Kg
Surrogates				
Decachlorobiphenyl (surr)	103	60-125		%

Batch Information

Analytical Batch: XGC9985
Analytical Method: SW8082A
Instrument: HP 6890 Series II ECD SV H F
Analyst: BMZ
Analytical Date/Time: 1/3/2018 2:46:00PM

Prep Batch: XXX38969
Prep Method: SW3550C
Prep Date/Time: 1/3/2018 8:32:43AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1178686 [XXX38969]
Blank Spike Lab ID: 1430519
Date Analyzed: 01/03/2018 15:01

Spike Duplicate ID: LCSD for HBN 1178686 [XXX38969]
Spike Duplicate Lab ID: 1430520
Matrix: Soil/Solid (dry weight)

QC for Samples: 1178686001

Results by **SW8082A**

	Blank Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	0.222	0.176	79	0.222	0.173	78	(47-134)	1.27	(< 30)
Aroclor-1260	0.222	0.204	92	0.222	0.202	91	(53-140)	1.09	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.222	102	102	0.222	102	102	(60-125)	0.00	

Batch Information

Analytical Batch: **XGC9985**
Analytical Method: **SW8082A**
Instrument: **HP 6890 Series II ECD SV H F**
Analyst: **BMZ**

Prep Batch: **XXX38969**
Prep Method: **SW3550C**
Prep Date/Time: **01/03/2018 08:32**
Spike Init Wt./Vol.: 0.222 mg/Kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.222 mg/Kg Extract Vol: 5 mL

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Matrix Spike Summary

Original Sample ID: 1178686001
MS Sample ID: 1430521 MS
MSD Sample ID: 1430522 MSD

QC for Samples: 1178686001

Analysis Date: 01/03/2018 15:45
Analysis Date: 01/03/2018 15:59
Analysis Date: 01/03/2018 16:14
Matrix: Soil/Solid (dry weight)

Results by **SW8082A**

		Matrix Spike (mg/Kg)			Spike Duplicate (mg/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	0.0320U	0.283	0.252	89	0.286	0.246	86	47-134	2.89	(< 30)
Aroclor-1260	0.0320U	0.283	0.247	87	0.286	0.251	88	53-140	1.68	(< 30)
Surrogates										
Decachlorobiphenyl (surr)		0.283	0.276	97	0.286	0.280	98	60-125	1.56	

Batch Information

Analytical Batch: XGC9985
Analytical Method: SW8082A
Instrument: HP 6890 Series II ECD SV H F
Analyst: BMZ
Analytical Date/Time: 1/3/2018 3:59:00PM

Prep Batch: XXX38969
Prep Method: Sonication Extraction Soil SW8080 PCB
Prep Date/Time: 1/3/2018 8:32:43AM
Prep Initial Wt./Vol.: 22.89g
Prep Extract Vol: 5.00mL

Print Date: 01/08/2018 4:30:14PM

Wells, Nicholas (Anchorage)

From: Dawkins, Jennifer A (Anchorage)
Sent: Thursday, December 28, 2017 4:10 PM
To: Env.Alaska.RcvgLogin
Subject: 1178572 Added Work

1178686

Please run PCBs on what was sample 19 (CE-1) on 1178572. We do have volume left. This added work will be work order **1178686**.
Thanks,
Jen

From: Andrew Frick [mailto:ALF@shanwil.com]
Sent: Thursday, December 28, 2017 1:22 PM
To: Dawkins, Jennifer A (Anchorage) <Jennifer.Dawkins@sgs.com>
Subject: WO1178572-- still available for analysis?

Hi Jen,
I just noticed that I didn't request PCB analysis for a sample in this work order. Is it possible to still run sample CE-1 (lab ID 1178572019) for PCBs?

Thanks,
Drew

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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

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1178572

1178686

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CHAIN OF CUSTODY

Laboratory SGS Page 1 of 4
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Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM	RCRA 8 Metals 6020A	PCBs 8082A	Total Number of Containers	Remarks/Matrix
DB-1	1 A-B	12:05	10-21-17		X	X	X	X	X	X	X	3	
DB-2	2 A-B	12:10	10-21-17			X	X	X		X	X	3	
FK-1	3 A-B	13:15	10-22-17			X	X	X	X	X	X	3	
FK-11	4 A-B	13:10				X	X	X	X	X	X	3	
FK-2	5 A-B	13:30				X	X	X		X	X	3	2 vials of MeOH added
FK-3	6 A-B	13:45				X	X	X		X	X	3	
FK-4	7 A-B	13:55				X	X	X		X	X	3	
FK-5	8 A-B	14:00				X	X	X		X	X	3	
FK-6	9 A-B	14:05				X	X	X		X	X	3	
FK-7	10 A					~~ALF~~		X		X	X	1	Prioritize PCBs, Run other analyses if able.

Project Information		Sample Receipt	
Project Number:	20056-007	Total Number of Containers	
Project Name:	Miller Salvage	COC Seals/Intact? Y/N/NA	
Contact:	ALF	Received Good Cond./Cold	
Ongoing Project?	Yes ☒ No ☐	Delivery Method:	Hand
Sampler:	ALF	(attach shipping bill, if any)	

Instructions	
Requested Turnaround Time:	Standard
Special Instructions:	Bill to SWI

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Fuld	Signature:	Signature:
Time: 16:25	Time: 1600	Time:
Printed Name: Andrew Fuld	Printed Name: Nicole Warner	Printed Name:
Date: 10-27-17	Date: 10/30/17	Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature:	Signature:	Signature:
Time: 1625	Time:	Time: 08:45
Printed Name: Nicole Warner	Printed Name:	Printed Name: Nicholas Wells
Date: 10/27/17	Date:	Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 1.6.07

ANC: TB: 0.9 #D41 CS: 1F, 1B
#5: 1.0 #D3C

No. 34772

1178572

1178686

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CHA ECORD

Laboratory SGS Page 2 of 4
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM	PCBs 8082A		Total Number of Containers	Remarks/Matrix
CW-1	(11) A-B	14:45	10-22-17		X	X	X	X	X	X		3	
CW-2	(12) A	14:50			X	~~X~~	~~X~~			X		1	
GC-1	(13) A-B	16:05			X	X	X	X				3	
GC-2	(14) A-B	16:10			X	X	X	X	X			3	
PYR-1	(15) A-B	17:05			X	X	X	X				3	
PYR-2	(16) A-B	17:10			X	X	X	X	X			3	
SF-1	(17) A-B	17:35			X	X	X	X				3	
SF-2	(18) A-B	17:40			X	X	X	X	X			3	
CE-1	(19) A-B	18:15			X	X	X	X				3	
NCHS-1	(20) A-B	13:55	10-23-17		X	X	X	X	X			3	

(1A)

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 1615	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fridl Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 1.6, 0.7

No. 34769

1178572

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CHAIN OF CUSTODY

Laboratory SGS Page 3 of 4
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM			Total Number of Containers	Remarks/Matrix
NCHS-2	(21) A-B	14:00	10-23-17		X	X	X	X				3	
NCHS-3	(22) A-B	14:05				X	X	X				3	
NCHW-1	(23) A-B	16:30				X	X	X	X			3	
NCHW-2	(24) A-B	16:35				X	X	X				3	
NCHW-12	(25) A-B	16:25				X	X	X				3	
NCHE-1	(26) A-B	10:55	10-27-17			X	X	X	X			3	
NCHE-11	(27) A-B	10:45				X	X	X	X			3	
NCHE-2	(28) A-B	11:00				X	X	X				3	
NCHE-3	(29) A-B	11:05				X	X	X				3	
NCHE-4	(30) A-B	11:10				X	X	X				3	

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 16:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Frick Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1625	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 1.6, 0.7

No. 34770

1178572

1178686

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CHAIN-OF-CUSTODY RECORD

Laboratory SGS Page 4 of 5

Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	GRO AK101	VOCs 8260	DRO/RRO AK102/103	PAH 8270 SIM			Total Number of Containers	Remarks/Matrix
NCHN-1	(31) A-B	11:35	10-27-17		X	X	X	X	X			3	
NCHN-2	(32) A-B	11:40	"		"	X	X	X				3	
Loader-1	(33) A-B	12:20	"		"	X	X	X	X			3	
Loader-2	(34) A-B	12:25	"		"	X	X	X				3	
Trip Blank	(35) A					X	X						
Trip Blank	(36) A					X	X						

Project Information	Sample Receipt
Project Number:	Total Number of Containers
Project Name:	COC Seals/Intact? Y/N/NA
Contact:	Received Good Cond./Cold
Ongoing Project? Yes ☐ No ☐	Delivery Method:
Sampler:	(attach shipping bill, if any)

Instructions
Requested Turnaround Time:
Special Instructions:

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 16:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Fritz Date: 10-27-17	Printed Name: Nicole Warner Date: 10/30/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 16:25	Signature: Time:	Signature: Time: 08:45
Printed Name: Nicole Warner Date: 10/27/17	Printed Name: Date:	Printed Name: Nicholas Wells Date: 10/31/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

Page 15 of 24

F-19-91/UR

TB 1.6.07

No. 34771

SGS

1178686

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	□*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 1.6 w/Therm. ID: D28 Cooler ID: 2 @ 0.7 w/Therm. ID: D25 Cooler ID: ___ @ ___ w/Therm. ID: ___ Cooler ID: ___ @ ___ w/Therm. ID: ___ Cooler ID: ___ @ ___ w/Therm. ID: ___ If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	(Yes) No Yes No (N/A) Yes No (N/A)	□*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: (Client (hand carried)) Other: ___	Tracking/AB# : Or see attached (Or N/A)	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble Wrap) Separate plastic bags Vermiculite Other: ___	(Yes) No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	(Yes) No N/A	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No (N/A) Yes No (N/A)	
Additional notes (if applicable):		

Profile #: 337923

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

SGS

Cooler Packing Form For Fairbanks

Cooler ID 5 Cooler Temperature 1.0 #D36

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178572	All Samples DRO/PCB/Metals/PAH	
1178569	All Samples	
1178571	All Samples	

SGS

Cooler Packing Form For Fairbanks

Cooler ID 6 Cooler Temperature 0.9 #041

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178572	All Samples GRO & VOC	

1178572 1178572

NW 1672

1178686

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CHA ECORD

Laboratory SGS Page 1 of 1
Attn:

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	DRO/RRO AK102/103	RCRA 8 Metals 6020A	PCBs 8082A				Total Number of Containers	Remarks/Matrix
FK-8	(37)A	15:05	10-22-17		X	X	X	X				1	

Project Information		Sample Receipt	
Project Number:	20056-007	Total Number of Containers	1
Project Name:	Miller Salvage	COC Seals/Intact? Y/N/NA	IF/IB
Contact:	ALF	Received Good Cond./Cold	1.0
Ongoing Project? Yes ☒ No ☐		Delivery Method:	Hand DHO
Sampler:	ALF	(attach shipping bill, if any)	

Instructions	
Requested Turnaround Time:	
Special Instructions:	Add to WO 1178572 Bill to SWI

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Andrew Finch Time: 10:25	Signature: Time: 1600	Signature: Time:
Printed Name: Andrew Finch Date: 10-31-17	Printed Name: Nicole Warner Date: 11/1/17	Printed Name: Date:
Company: SWI	Company: SGS	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time: 1025	Signature: Time:	Signature: Hannah Deeney Time: 1033
Printed Name: Nicole Warner Date: 10/31/17	Printed Name: Date:	Printed Name: Hannah Deeney Date: 11/2/17
Company: SGS	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

TB 1.8

No. 34275

SGS

1178572

1178686

FAIRBANKS SAMPLE RECEIPT FORM

Note: This form is to be completed by Fairbanks Receiving Staff for all samples

Review Criteria:	Condition:	Comments/Actions Taken
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	□*Exemption permitted if sampler hand carries/delivers.*
Temperature blank compliant* (i.e., 0-6°C) *If >6°C, were samples collected <8 hours ago?* *If <0°C, were all sample containers ice free?* Cooler ID: 1 @ 1.8 w/Therm. ID: D25 Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ Cooler ID: ____ @ ____ w/Therm. ID: ____ If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank and "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note ambient ( ) or chilled ( ). Please check one.	(Yes) No Yes No (N/A) Yes No (N/A)	□*Exemption permitted if chilled & collected <8hrs ago* ***Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed.***
Delivery Method: (Client (hand carried)) Other: ____	Tracking/AB# : Or see attached (Or N/A)	
→For samples received with payment, note amount ($) and whether cash / check / CC (**circle one**) was received.		
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble Wrap) Separate plastic bags Vermiculite Other: ____	(Yes) No N/A	***Note: some samples are sent to Anchorage without inspection by SGS Fairbanks personnel.***
Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	Yes No (N/A)	
For **RUSH/SHORT Hold Time**, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No (N/A) Yes No (N/A)	

Additional notes (if applicable):

Add to WO # 1178572.

Profile #: 337923

Note to Client: any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

SGS

Cooler Packing Form For Fairbanks

Cooler ID (1)

Cooler Temperature 1.0 D40

Please list the WOs and associated samples packed in this Cooler

WO #	Samples	Special Notes
1178574	ALL	
1178572	ALL	
~~H00~~ 11/2/17 ~~H6~~ 1178577	ALL	

SGS

e-Sample Receipt Form

1178686

SGS Workorder #: **1178572**

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		n/a Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	yes	1-F, 1-B
COC accompanied samples?	yes	
n/a **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	yes	Cooler ID: 5 @ 1.0 °C Therm. ID: D36
	yes	Cooler ID: 6 @ 0.9 °C Therm. ID: D41
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	n/a	
If <0°C, were sample containers ice free?	n/a	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		Cooler 1: 1.0 D40
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	yes	**The collection time for Sample 10 is 15:00 per the jar.**
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	yes	
		n/a ***Exemption permitted for metals (e.g.200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	yes	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	n/a	
Were all soil VOAs field extracted with MeOH+BFB?	yes	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample 37A received in Cooler 1 on 11/02/17 @ 10:33 and added to this WO.

e-Sample Receipt Form

SGS Workorder #: **1178686**

1 1 7 8 6 8 6

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		n/a Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	yes	1-F, 1-B
COC accompanied samples?	yes	
n/a **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	yes	Cooler ID: 5 @ 1.0 °C Therm. ID: D36
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
If >6°C, were samples collected <8 hours ago?	n/a	
If <0°C, were sample containers ice free?	n/a	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	yes	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	yes	
		n/a ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	n/a	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	n/a	
Were all soil VOAs field extracted with MeOH+BFB?	n/a	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

This sample was originally received on WO: 1178572.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1178686001-A	No Preservative Required	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Data Review Checklist

Completed By:

Michael Jaramillo

Title:

Environmental Chemist

Date:

November 22, 2017

CS Report Name:

20056-004 Miller Salvage

Report Date:

November 6, 2017

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

SGS North America, Inc.

Laboratory Report Number:

1178553

ADEC File Number:

102.23.017

Hazard Identification Number:

1178553

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   (•) Yes ( ) No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   ( ) Yes (•) No Comments:

   Analyses were performed by SGS North America, Inc. in Anchorage, AK.

2. Chain of Custody (CoC)

   a. CoC information completed, signed, and dated (including released/received by)?

   (•) Yes ( ) No Comments:

   b. Correct Analyses requested?

   (•) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   (•) Yes ( ) No Comments:

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   (•) Yes ( ) No Comments:

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

   (•) Yes ( ) No Comments:

   The laboratory noted that samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

○ Yes ◉ No Comments:

There were no discrepancies noted by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality and usability were not affected; see above.

4. Case Narrative

a. Present and understandable?

◉ Yes ○ No Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

◉ Yes ○ No Comments:

The leaching blank 1424200 had a detection for hexachlorobutadiene. The analyte was not detected in the project samples above the LOQ.

c. Were all corrective actions documented?

○ Yes ◉ No Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on the data quality and usability; refer to Section 6.a. for further assessment.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

◉ Yes ○ No Comments:

b. All applicable holding times met?

◉ Yes ○ No Comments:

c. All soils reported on a dry weight basis?

○ Yes ◉ No Comments:

Soil samples were not submitted with this work order.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

○ Yes ◉ No Comments:

The reported limit of detection (LOD) was below the ADEC Groundwater Cleanup Levels for the requested analytes; except for 1,2,3-trichloropropane.

e. Data quality or usability affected?

◉ Yes ○ No Comments:

We cannot assess if the analyte 1,2,3-trichloropropane is present in the project samples at concentrations above the ADEC Groundwater Cleanup Levels, but below the LOD.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

◉ Yes ○ No Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

◉ Yes ○ No Comments:

However, hexachlorobutadiene was detected in the method blank (MB) 1424200 and toluene was detected in the MB 1424199 at estimated concentrations below the LOQ.

iii. If above LOQ, what samples are affected?

Comments:

The analytes hexachlorobutadiene and toluene were not detected in the project samples. The MB detections do not affect the sample results.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ◉ No Comments:

N/A; the MB detections do not affect the sample results.

v. Data quality or usability affected?

Comments:

No; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

(•) Yes ( ) No Comments:

LCS/LCSD samples were reported for GRO, DRO, RRO, and VOC analyses.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (•) No Comments:

N/A; only organic analyses were requested for this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

There were no percent recoveries or RPD failures reported by the laboratory.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

N/A; there were no percent recovery or RPD failures reported by the laboratory.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No; see above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

(•) Yes ( ) No Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

N/A; the surrogate recoveries were within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

No; see above.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

(•) Yes ( ) No Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

(•) Yes ( ) No Comments:

iii. All results less than LOQ?

(•) Yes ( ) No Comments:

The project analytes were not detected in the trip blank samples.

iv. If above LOQ, what samples are affected?

Comments:

N/A; the project analytes were not detected in the trip blank samples.

v. Data quality or usability affected?

Comments:

No; see above.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

(•) Yes ( ) No Comments:

ii. Submitted blind to lab?

(•) Yes ( ) No Comments:

The sample *TWP17-140* is a field-duplicate sample of *TWP17-40*.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

( ) Yes (•) No Comments:

The field-duplicate RPDs were not calculable; the sample results are not affected.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No; see above.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

( ) Yes ( ) No (•) Not Applicable

The project samples were not collected with reusable sampling equipment. An equipment blank was not required for this work order.

i. All results less than LOQ?

○ Yes ◉ No Comments:

N/A; an equipment blank was not required for this work order.

ii. If above LOQ, what samples are affected?

Comments:

N/A; an equipment blank was not required for this work order.

iii. Data quality or usability affected?

Comments:

No, see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

Additional data flags or qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Michael Jaramillo

Title:

Environmental Chemist

Date:

November 22, 2017

CS Report Name:

20056-004 Miller Salvage

Report Date:

November 13, 2017

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

SGS North America, Inc.

Laboratory Report Number:

1178562

ADEC File Number:

102.23.017

Hazard Identification Number:

1178562

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   (•) Yes ( ) No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   ( ) Yes (•) No Comments:

   The requested analyses of GRO, DRO, RRO, VOCs, PAHs, and metals were performed by the SGS of Anchorage, Alaska. The laboratory is ADEC CS certified for the requested analyses.

   The requested analysis PFOS/PFOA was performed by SGS/Accutest of Orlando, Florida. The laboratory is NELAP certified for the requested analysis. The ADEC CS does not currently provide certifications for this analysis. The data quality and usability are not affected.

2. Chain of Custody (CoC)

   a. CoC information completed, signed, and dated (including released/received by)?

   (•) Yes ( ) No Comments:

   b. Correct Analyses requested?

   (•) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   (•) Yes ( ) No Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

○ Yes ◉ No Comments:

The samples *TWP17-19*and *TWP17-10* were received with unpreserved sample containers for metals analysis. The laboratory adjusted the pH in the samples and the sample results are not affected by the sample handling discrepancy.

The sample *TWP17-35* was received with an unpreserved sample container for DRO/RRO analysis. The laboratory adjusted the pH in the sample jar but the sample container was not used for reporting purposes. The sample handling discrepancy does not affect the sample results.

The samples submitted for PAH analysis were received with low volume (1 jar per sample). However, there was sufficient sample available to conduct the requested analysis for these samples. The sample handling discrepancy does not affect the sample results.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

◉ Yes ○ No Comments:

The laboratory noted that samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

○ Yes ◉ No Comments:

There were no discrepancies noted by the laboratory.

e. Data quality or usability affected?

Comments:

No; see above.

4. Case Narrative

a. Present and understandable?

◉ Yes ○ No Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

(•) Yes ( ) No Comments:

The SGS Case Narrative identified the following discrepancies, errors, or QC failures:
The sample *TWP17-6* had a surrogate recovery failure (biased high) for 1,2-dichloroethane-d4 for VOC analysis. The associated analytes were not detected.

The samples *TWP17-40* and *TWP17-140* had a 7 mm bubble in one of the VOA vails for 8260-SIM analysis. The laboratory routinely performs the required analyses from VOA vials that are free of headspace. This sample handling anomaly does not affect the sample results.

The AK103 method blank (MB) 1423754 had a detection for RRO greater than one half the LOQ, but less than the LOQ.

The 8260C laboratory control sample duplicate (LCSD) 1424239 had an RPD failure for bromomethane. This analyte was not detected in the associated samples.

The 8260C LCSD 1424652 had a recovery failure (biased high) for bromomethane. This analyte was not detected above the LOQ in the associated samples.

The SGS/Accutest Case Narrative identified the following discrepancies, errors, or QC failures:
The matrix spike (MS) OP67486-MS had a recovery failure for PFOS due to high concentrations for the analyte in the parent sample.

The laboratory duplicate OP67486-DUP had an RPD for PFOS. The laboratory indicated the probable cause of the QC failure was sample non-homogeneity.

The MS OP67486-MS had surrogate recovery failures for the surrogates 13C2-PFDA and 13C2-PFHxA due to sample dilution.

c. Were all corrective actions documented?

( ) Yes (•) No Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on the data quality and usability; refer to Section 6.a., Section 6.b., and Section 6.c. for further assessment.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(●) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

( ) Yes (●) No Comments:

Soil samples were not submitted with this work order.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (●) No Comments:

The reported limit of detection (LOD) was below the ADEC Groundwater Cleanup Levels for the requested analytes; except for 1,2,3-trichloropropane.

e. Data quality or usability affected?

(●) Yes ( ) No Comments:

We cannot assess if the analyte 1,2,3-trichloropropane is present in the project samples at concentrations above the ADEC Groundwater Cleanup Levels, but below the LOD.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(●) Yes ( ) No Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

(●) Yes ( ) No Comments:

However, the following MB samples had detections at estimated concentrations below the LOQ for the specified analtyes:

- MB 1423754 had detections for DRO and RRO;
- MB 1423469 had a detection for RRO; and
- MB OP67486-MB had a detection for PFOS.

iii. If above LOQ, what samples are affected?

Comments:

Project samples are considered affected if they are in the same preparatory batch and have detections for the corresponding analyte at concentrations less than ten times the MB detections.

The samples *TWP17-1*, *TWP17-5*, *TWP17-15*, *TWP17-23*, *TWP17-27*, *TWP17-35*, *TWP17-36*, and *TWP17-39* had estimated detections for DRO at concentrations less than five times the MB detection. The sample results are considered non-detect and are flagged 'UB' at the LOQ in the analytical database and reporting tables.

The samples *TW17-25* and *TWP17-125* had detections for DRO at concentrations less than ten times, but greater than five times the MB detection. The sample results are considered estimated, biased high, and are flagged 'JH' in the analytical database and reporting tables.

The samples *TWP17-1*, *TWP17-2*, *TWP17-3*, *TWP17-5*, *TWP17-7*, *TWP17-11*, *TWP17-13*, *TWP17-15*, *TWP17-18*, *TWP17-19*, *TWP17-20*, *TWP17-23*, *TWP17-25*, *TWP17-125*, *TWP17-26*, *TWP17-126*, *TWP17-27*, *TWP17-31*, *TWP17-35*, *TWP17-36*, and *TWP17-39* had detections for RRO at concentrations less than five times the MB detection. The sample results are considered non-detect and are flagged 'UB' at the LOQ or detected results (whichever value is greater) in the analytical database and reporting tables.

The samples *TWP17-22*, *TWP17-122*, and *TWP17-23* had estimated detections for PFOS at concentrations less than five times the MB detection. The sample results are considered non-detect and are flagged 'UB' at the LOQ in the analytical database and reporting tables.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Refer to Section 6.a.iii. for applied qualifiers to the affected results.

v. Data quality or usability affected?

Comments:

Yes; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

○ Yes ◉ No Comments:

LCS/LCSD samples were reported for GRO, DRO, RRO, EDB, and VOC analyses.

LCS, MS, and laboratory duplicate samples were reported for PFOS/PFOA analysis.

LCS samples were reported for PAH analysis. Refer to the field-duplicate samples for assessment of laboratory precision for this analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

LCS and MS/MSD samples were report for metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

( ) Yes (•) No Comments:

The MS OP67486-MS had recovery failures for PFOS and PFOA.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

( ) Yes (•) No Comments:

The VOC LCS/LCSD RPD associated with Preparatory Batch VXX31669 did not meet laboratory acceptance criteria for bromomethane.

The laboratory duplicate OP67486-DUP had an RPD failure for PFOS.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The parent sample associated with the PFOS and PFOA MS recovery failures had initial concentration that were greater than the spiking concentrations. This may contribute a significant uncertainty to the recovery calculations; the MS recoveries may not be representative of actual method performance for the matrix. The MS recovery failures do not affect the project samples.

The project samples in the Preparatory Batch VXX31669 are affected by the LCS/LCSD RPD failure for bromomethane.

PFOS was not detected in the parent sample associated with the laboratory duplicate PO67486-DUP, which had an estimated detection for PFOS. The laboratory duplicate is not calculable and the sample results are not affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

The samples *TWP17-2*, *TWP17-3*, *TWP17-5*, *TWP17-7*, *TWP17-11*, *TWP17-13*, *TWP17-15*, *TWP17-18*, *TWP17-19*, *TWP17-20*, *TWP17-26*, *TWP17-126*, and *TWP17-31* are in the Preparatory Batch VXX31669. The analyte bromomethane was not detected in the project samples. The sample results are considered estimated (no direction of bias) and are flagged 'UJ' in the analytical database and reporting tables.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Yes; see above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

( ) Yes (•) No Comments:

The MS OP67486-MS had surrogate recovery failures for 13C2-PFHxA and 13C2-PFDA. The sample was analyzed at a dilution due to high native concentrations of the target analytes.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

The project samples are not affected by surrogate recovery failures in QC samples.

iv. Data quality or usability affected?

Comments:

No; see above.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

(•) Yes ( ) No Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

(•) Yes ( ) No Comments:

iii. All results less than LOQ?

◉ Yes ○ No Comments:

The project analytes were not detected in the trip blank samples.

iv. If above LOQ, what samples are affected?

Comments:

N/A; the project analytes were not detected in the trip blank samples.

v. Data quality or usability affected?

Comments:

No; see above.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

◉ Yes ○ No Comments:

ii. Submitted blind to lab?

◉ Yes ○ No Comments:

The sample *TWP17-101* is a field-duplicate sample of *TWP17-1*.
The sample *TWP17-106* is a field-duplicate sample of *TWP17-6*.
The sample *TWP17-125* is a field-duplicate sample of *TWP17-25*.
The sample *TWP17-126* is a field-duplicate sample of *TWP17-26*.
The sample *TWP17-140* is a field-duplicate sample of *TWP17-40*.

iii. Precision – All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

◉ Yes ○ No Comments:

The field-duplicate RPDs were within the recommended DQO for water samples, where calculable.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No; see above.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

○ Yes ○ No ◉ Not Applicable

The project samples were not collected with reusable sampling equipment. An equipment blank was not required for this work order.

i. All results less than LOQ?

○ Yes ◉ No Comments:

N/A; an equipment blank was not required for this work order.

ii. If above LOQ, what samples are affected?

Comments:

N/A; an equipment blank was not required for this work order.

iii. Data quality or usability affected?

Comments:

No, see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

Additional data flags or qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Michael Jaramillo

Title:

Environmental Chemist

Date:

November 30, 2017

CS Report Name:

20056-007 Miller Salvage

Report Date:

November 29, 2017

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

SGS North America, Inc.

Laboratory Report Number:

1178572

ADEC File Number:

102.23.017

Hazard Identification Number:

1178572

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   ◉ Yes ○ No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   ○ Yes ◉ No Comments:

   N/A; the requested analyses were performed by SGS in Anchorage, Alaska. The laboratory is ADEC CS certified for the requested analyses.

2. Chain of Custody (CoC)

   a. CoC information completed, signed, and dated (including released/received by)?

   ○ Yes ◉ No Comments:

   The sample time for sample *FK-7* was not included on the COC. The sample time was obtained from the sample jars submitted with this work order. The requested analyses were performed within the recognized hold time; this omission does not affect the sample results.

   b. Correct Analyses requested?

   ◉ Yes ○ No Comments:

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   ◉ Yes ○ No Comments:

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   ◉ Yes ○ No Comments:

   The COC noted that the sample *FK-2* was preserved with twice the amount of methanol for volatile analyses. The sample results are not affected by this additional use of methanol.

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

   ◉ Yes ○ No Comments:

   The laboratory noted that samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

○ Yes ◉ No Comments:

The sample time for sample *FK-7* was not included on the COC. The sample time was obtained from the sample jars submitted with this work order. The requested analyses were performed within the recognized hold time; this omission does not affect the sample results.

Most of the project samples were received by the laboratory on October 31, 2017. Sample *FK-8* was received by the laboratory on November 2, 2017. The requested analyses were performed within the recognized hold time; this discrepancy does not affect the sample results

e. Data quality or usability affected?

Comments:

No; see above.

4. Case Narrative

a. Present and understandable?

◉ Yes ○ No Comments:

The DRO surrogate 5a-androstane was recovered below laboratory limits in the project samples *DB-2*, *FK-1*, *FK-11*, and *FK-2*. The recovery failures were attributed to sample dilution and a final extraction volume of 5 mL.

The RRO surrogate n-triacontane was recovered below laboratory limits in the project samples *DB-2*, *FK-1*, *FK-11*, and *Loader-1*. The recovery failures were attributed to sample dilution and a final extraction volume of 5 mL.

The project sample *FK-1* had an elevated LOQ for RRO. The sample was analyzed at a dilution due to a dark color of the extract.

The GRO surrogate 4-bromofluorobenzene was recovered above laboratory limits in the project samples *FK-1*, *FK-11*, and *FK-3*. The recovery failures were attributed to matrix interference.

The GRO surrogate 4-bromofluorobenzene was recovered above laboratory limits in the project samples *FK-2*, *NCHW-1*, *NCHW-2*, and *NCHW-12*. The recovery failures were attributed to sample dilution.

The GRO surrogate 4-bromofluorobenzene was recovered below laboratory limits in the project samples *NCHE-1*, *NCHE-11*, and *NCHE-2*. The recovery failures were attributed to sample dilution.

The GRO surrogate 4-bromofluorobenzene was recovered below laboratory limits in the project samples *NCHS-3*, and *NCHE-4*. The samples were analyzed twice and the initial results were confirmed.

b. Discrepancies, errors, or QC failures identified by the lab?

◉ Yes ○ No Comments:

The PAH surrogate 2-methylnaphthalene-d10 was recovered above laboratory limits in the project samples *FK-1* and *FK-11*. The recovery failures were attributed to sample dilution and matrix interference.

The VOC surrogate toluene-d8 was recovered above laboratory limits in the project sample *FK-1*. The sample was analyzed twice and the initial results were confirmed.

The VOC surrogate 4-bromofluorobenzene was recovered above laboratory limits in the project samples *NCHW-1*, *NCHW-2*, *NCHW-12*, and *NCHE-4*. The recovery failures were attributed to matrix interference.

The project samples *NCHE-11*, *NCHE-2*, *NCHE-3*, and *NCHE-4* had elevated LOQs for several VOC analytes. The samples were analyzed at a dilution due to matrix interference.

The project sample *Loader-1* had elevated LOQs for several PAH analytes. The sample was analyzed at a dilution due to matrix interference.

The MS 1423484 and MSD 1423485 had recovery failures for barium. The post digestion spike was successful.

The LCS 1423974, MS 1423975, and MSD 142976 had high recovery failures for trichlorofluoromethane. The analyte was not detected in the associated samples above the LOQ.

The MS/MSD 142975/76 had an RPD failure for 1,2,3-trichlorobenzene. The analyte was not detected in the parent sample above the LOQ.

The MS 1423979 had high recovery failures for methylene chloride and trans-1,2-dichloroethene. The analyte was not detected in the parent sample above the LOQ.

The MSD 1423980 had high recovery failures for methylene chloride, methyl t-butyl ether, and trans-1,2-dichloroethene. The MS/MSD 1423979/80 had RPD failures for 1,2,3-trichlorobenzene and naphthalene. These analytes were not detected in the parent sample above the LOQ.

The MS 1424046 had a recovery failure for lead. The post digestion spike was successful.

The MS/MSD 1424046/47 had an RPD failure for lead. Refer to the sample duplicate for RPD requirements.

c. Were all corrective actions documented?

◉ Yes ○ No Comments:

The project samples *FK-2*, *NCHS-3*, and *NCHE-4* were analyzed twice to confirm the initial sample results due to surrogate recovery failures.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on the data quality and usability; refer to Section 6 for further assessment.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (•) No Comments:

The reported limit of detection (LOD) was below the ADEC Migration-to-Groundwater Soil Cleanup Levels for the requested analytes; with the following exceptions in one or more project sample: 1,1,1,2,-tetrachloroethane; 1,1,2,2-tetrachloroethane; 1,1,2-trichloroethane; 1,2,3-trichloropropane; 1,2-dibromoethane; 1,2-dichloroethane; 1,2-dichloropropane; 1,4-dichlorobenzene; 2-hexanone; bromodichloromethane; bromoform; bromomethane; carbon tetrachloride; chlorobenzene; chloroform; cis-1,3-dichloropropene; dibromochloromethane; dibromomethane; ethylbenzene; hexachlorobutadiene; isopropylbenzene; naphthalene; o-xylene; p&m-xylene; styrene; tetrachloroethene; trans-1,3-dichloropropene; trichloroethene, vinyl chloride; and xylenes (total).

e. Data quality or usability affected?

(•) Yes ( ) No Comments:

We cannot assess if the analytes listed in Section 5.d. are present in the project samples at concentrations above the ADEC Migration-to-Groundwater Soil Cleanup Levels, but below the LOD.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

(•) Yes ( ) No Comments:

However, the following MB samples had detections at estimated concentrations below the LOQ for the specified analytes:

- MB 1423479 had a detection for chromium;
- MB 1424041 had a detection for mercury;
- MB 1424936 had a detection for silver;
- MB 1423973 had detections for carbon disulfide and carbon tetrachloride;
- MB 1423977 had a detection for methylene chloride; and
- MB 1425115 had a detection for GRO.

iii. If above LOQ, what samples are affected?

Comments:

Project samples are considered affected if they are in the same preparatory batch and have detections for the corresponding analyte at concentrations less than ten times the MB detections.

The project sample *FK-8* associated with MB 14234041 had a detection for mercury at a concentration less than ten times, but greater than five times the MB detection. The sample result is considered estimated, biased high, and is flagged 'JH' in the analytical database and reporting tables.

The project sample *DB-1* associated with MB 1425115 had a detection for GRO at a concentration less than ten times, but greater than five times the MB detection. The sample result is considered estimated, biased high, and is flagged 'JH' in the analytical database and reporting tables.

The project samples *GC-1*, *NCHS-1*, *NCHS-2*, *PYR-1*, *SF-1*, and *SF-2* associated with MB 1425115 had estimated detections for GRO at concentrations less than five times the MB detection. The sample results are considered non-detect and are flagged 'UB' at the LOQ in the analytical database and reporting tables.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

Refer to Section 6.a.iii. for applied qualifiers to the affected results.

v. Data quality or usability affected?

Comments:

Yes; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

(•) Yes ( ) No Comments:

LCS/LCSD samples were reported for GRO, DRO, and RRO analyses.

LCS and MS/MSD were reported for VOC, PAH, and PCB analyses.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

LCS, MS/MSD, and laboratory duplicate samples were report for metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

( ) Yes (•) No Comments:

The MS 1423484 and MSD 1423485 associated with preparatory batch MXX31196 had recovery failures for barium.

The MS 1424046 associated with preparatory batch MXX31200 had recovery failures for barium and lead. The associated MSD 1424047 had a recovery failure for barium.

The LCS 1423974, MS 1423975, and MSD 1423976 associated with preparatory batch VXX31660 had recovery failures for trichlorofluoromethane.

The LCS 1423978 associated with preparatory batch VXX31661 had a recovery failure for methylene chloride.

The MS 1423979 associated with preparatory batch VXX31661 had recovery failures for methylene chloride and trans-1,2-dichloroethene. The associated MSD 1423980 had recovery failures for methylene chloride, methyl t-butyl ether, and trans-1,2-dichloroethene.

The MS 1424175 associated with preparatory batch VXX31163 had a recovery failure for trichlorofluoromethane.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

○ Yes ◉ No Comments:

The MSD 1424047 associated with preparatory batch MSS31200 had an RPD failure for lead.

The MSD 1423796 associated with preparatory batch VXX31660 had an RPD failure for 1,2,3-trichlorobenzene.

The MSD 1423980 associated with preparatory batch VXX31661 had RPD failures for 1,2,3-trichlorobenzene, naphthalene, and trichlorofluoromethane.

The MSD 1424176 associated with preparatory batch VXX31663 had an RPD failure for 1,2,3-trichlorobenzene.

The MSD 1424395 associated with preparatory batch VXX31675 had an RPD failure for naphthalene.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The project samples are not affected by MS/MSD recovery, or MS/MSD RPD failures if the parent sample used for the MS/MSD was not used for the project sample set.

The project samples associated preparatory batch VXX31660 did not have detections for the trichlorofluoromethane. The sample results are not affected by the high LCS, MS, and MSD recoveries for this analyte.

The parent sample *NCHS-2* is associated with the high MS 1423979 and MSD 1423980 recovery failures for methylene chloride, methyl t-butyl ether, and trans-1,2-dichloroethene. The analytes were not detected in the sample; the high recoveries do not affect the sample results.

The parent sample *NCHS-2* is associated with the MSD 1423980 RPD failures for 1,2,3-trichlorobenzene, naphthalene, and trichlorofluoromethane. The analytes were not detected in the sample; the results are considered estimated, and are flagged 'UJ' in the analytical database and reporting tables.

The project samples associated preparatory batch VXX31661 did not have detections for the methylene chloride. The sample results are not affected by the high LCS recovery for this analyte.

The parent sample *DB-1* is associated with MSD 1423976 RPD failure for 1,2,3-trichlorobenzene. The analyte was not detected in the sample; the result is considered estimated, and is flagged 'UJ' in the analytical database and reporting tables.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Refer to Section 6.b.v. for applied qualifiers.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Yes; see above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

( ) Yes (•) No Comments:

The DRO surrogate 5a-androstane was recovered below acceptable limits in the project samples *DB-2*, *FK-1*, *FK-11*, and *FK-2*. The recovery failures were attributed to sample dilution and a final extraction volume of 5 mL.

The RRO surrogate n-triacontane was recovered below acceptable limits in the project samples *DB-2*, *FK-1*, *FK-11*, and *Loader-1*. The recovery failures were attributed to sample dilution and a final extraction volume of 5 mL.

The GRO surrogate 4-bromofluorobenzene was recovered above acceptable limits in the project samples *FK-1*, *FK-11*, and *FK-3*. The recovery failures were attributed to matrix interference.

The GRO surrogate 4-bromofluorobenzene was recovered above acceptable limits in the project samples *FK-2*, *NCHW-1*, *NCHW-2*, and *NCHW-12*. The recovery failures were attributed to sample dilution.

The GRO surrogate 4-bromofluorobenzene was recovered below acceptable limits in the project samples *NCHE-1*, *NCHE-11*, and *NCHE-2*. The recovery failures were attributed to sample dilution.

The GRO surrogate 4-bromofluorobenzene was recovered below acceptable limits in the project samples *NCHS-3* and *NCHS-4*. The samples were analyzed twice and the initial results were confirmed.

The VOC surrogate 4-bromofluorobenzene was recovered above acceptable limits in the project samples *NCHW-1*, *NCHW-2*, *NCHW-12*, and *NCHE-4*. The recovery failures were attributed to matrix interference.

The VOC surrogate toluene-d8 was recovered above acceptable limits in the project sample *FK-1*. The sample was analyzed twice and the initial results were confirmed.

The PAH surrogate 2-methylnaphthalene-d10 was recovered above acceptable limits in the project samples *FK-1* and *FK-11*. The recovery failures were attributed to sample dilution and matrix interference.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

The DRO and RRO results for the project samples are not affected by the surrogate recovery failures attributed to sample dilution and high final extraction volumes.

The GRO results for the project samples *FK-1*, *FK-11*, and *FK-3* are considered estimated with a high analytical bias. These results are flagged 'JH' in the database and reporting tables.

Sample results are normally not affected by surrogate recovery failures attributed to sample dilution. However, DRO was detected in the project samples and may cause matrix interferences for GRO analyses. Since the GRO surrogate recoveries are considered gross recovery failures (>250%) even with high dilutions (100x), the GRO results for samples *FK-2*, *NCHW-1*, *NCHW-2*, and *NCHW-12* are considered estimated, biased high, and are flagged 'JH' in the database and reporting tables due to the likely DRO matrix interference.

The GRO results for project samples are not affected by the low surrogate recoveries attributed to sample dilution.

The GRO results for project samples *NCHS-3* and *NCHE-4* are considered estimated with a low analytical bias. These results are flagged 'UJ' for non-detects and 'JL' for detected results in the database and reporting tables.

The detected PAH analytes associated with the surrogate 2-methylnaphthalene-d10 in project samples *FK-1* and *FK-11* are affected by the high recovery. The analytes 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluorene, and phenanthrene are associated with the surrogate and were detected in the project samples. The sample results are considered estimated with a high analytical bias, and are flagged 'JH' in the database and reporting tables.

The detected VOC analytes associated with the surrogate toluene-d8 in project sample *FK-2* are affected by the high recovery. The analytes ethylbenzene, isopropylbenzene, o-xylene, p&m-xylene, toluene, and xylenes (total) are associated with the surrogate and were detected in the project sample. The sample results are considered estimated with a high analytical bias, and are flagged 'JH' in the database and reporting tables.

The detected VOC analytes associated with the surrogate 4-bromofluorobenzene in the project samples *NCHE-4*, *NCHW-1*, *NCHW-2*, and *NCHW-12*. are affected by the high recovery. The analytes 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; 4-isopropyltoluene; naphthalene; n-propylbenzene; sec-butylbenzene; and tert-butylbenzene are associated with the surrogate and were detected in at least one of these project samples. The detected sample results are considered estimated with a high analytical bias, and are flagged 'JH' in the database and reporting tables.

iv. Data quality or usability affected?

Comments:

Yes; see above.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

(•) Yes ( ) No Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

(•) Yes ( ) No Comments:

The laboratory indicated that the trip blank and VOA samples were delivered a single cooler. The trip blank samples are associated with all the VOA samples.

iii. All results less than LOQ?

( ) Yes (•) No Comments:

The project analytes 4-isopropyl toluene, benzene, and toluene were detected in one or more trip blank at concentrations above the LOQ.

Also, the analytes 4-isopropyl toluene, ethyl benzene, o-xylene, p&m-xylene, xylenes (total), and GRO were detected in one or more trip blank at estimated concentrations below the LOQ.

iv. If above LOQ, what samples are affected?

Comments:

Project samples with detections at concentrations that were less than five times the trip blank detections are affected. The following sample results are considered non-detect and are flagged 'UB' at the LOQ or the detected result (whichever value is higher) in the analytical database and reporting tables, unless previously qualified.

- Samples *DB-2*, *FK-3*, *FK-4*, and *NCHE-1* for 4-isopropyltoluene.
- Samples *FK-11*, *FK-5*, *CW-1*, *GC-1*, *PYR-1*, *PYR-2*, *NCHS-1*, *NCHS-2*, *NCHS-3*, *NCHE-3*, *NCHE-4*, *NCHN-2*, and *Loader-2* for benzene.
- Samples *NCHN-2* and *NCHS-1* for ethylbenzene.
- Samples *DB-2*, *FK-5*, *NCHN-2*, *NCHS-1*, and *NCHS-2* for o-xylene.
- Samples *DB-2*, *FK-4*, *NCHN-2*, *NCHS-1*, and *NCHS-2* for p&m-xylene.
- Samples *DB-2*, *FK-4*, *NCHN-2*, *NCHS-1*, and *NCHS-2* for xylenes (total).
- Samples *DB-1*, *DB-2*, *FK-1*, *FK-11*, *FK-3*, *FK-4*, *FK-5*, *FK-6*, *CW*-1, GC-*1*, *GC-2*, *PYR-1*, *PYR-2*, *SF-1*, *SF-2*, *NCHS-1*, *NCHS-2*, *NCHS-3*, *NCHN-1*, *NCHN-2*, *Loader-1*, and *Loader-2* for toluene.
- Samples *DB-2*, *FK-4*, *FK-5*, *CW*-1, GC-*1*, *PYR-1*, *SF-1*, *SF-2*, *NCHS-1*, and *NCHS-2* for GRO.

Project samples with detections at concentrations less than ten times, but greater than five times the trip blank detections are affected. The following sample results are considered estimated, biased high, and are flagged 'JH' in the analytical database and reporting tables, unless previously qualified.

- Sample *FK-3* for ethylbenzene.
- Sample *FK-4* for o-xylene.
- Sample *FK-3* for p&m-xylene.
- Sample *FK-3* for xylenes (total).
- Sample *DB-1* for GRO.

v. Data quality or usability affected?

Comments:

Yes; see above.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

(•) Yes ( ) No Comments:

ii. Submitted blind to lab?

(•) Yes ( ) No Comments:

The sample *FK-11* is a field-duplicate sample of *FK-1*.
The sample *NCHE-11* is a field-duplicate sample of *NCHE-1*.
The sample *NCHW-12* is a field-duplicate sample of *NCHW-2*.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

○ Yes ◉ No Comments:

The field-duplicate RPDs for *FK-1* and *FK-11* were within the recommended DQO for soil samples, where calculable, with the following exceptions: lead, sec-butylbenzene, and toluene. These results are considered estimated, and are flagged 'J' in the analytical database and reporting tables. In addition, benzene was detected above the LOQ in the field-duplicate sample *FK-11* but not in the sample *FK-1*. These results are considered estimated and are flagged 'UJ' for non-detect results and 'J' for detected results.

The field-duplicate RPDs for *NCHE-1* and *NCHE-11* were within the recommended DQO for soil samples, where calculable, with the following exceptions: 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, GRO, RRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, n-propylbenzene, and toluene. These results are considered estimated, and are flagged 'J' in the analytical database and reporting tables. In addition, trichloroethene and sec-butylbenzene were detected above the LOQ in the sample *NCHE-1* but not in the field-duplicate sample *NCHE-11*. These results are considered estimated and are flagged 'UJ' for non-detect results and 'J' for detected results.

The field-duplicate RPDs for *NCHW-2* and *NCHW-12* were within the recommended DQO for soil samples, where calculable, with the following exceptions: GRO, DRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, naphthalene, n-propylbenzene, o-xylene, p&m-xylene, tert-butylbenzene, and xylenes (total). These results are considered estimated, and are flagged 'J' in the analytical database and reporting tables, unless previously qualified. In addition, toluene was detected above the LOQ in the sample *NCHW-2* but not in the field-duplicate sample *NCHW-12*. These results are considered estimated and are flagged 'UJ' for non-detect results and 'J' for detected results.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Yes; see above.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

○ Yes ○ No ◉ Not Applicable

The project samples were not collected with reusable sampling equipment. An equipment blank was not required for this work order.

i. All results less than LOQ?

○ Yes ◉ No Comments:

N/A; an equipment blank was not required for this work order.

ii. If above LOQ, what samples are affected?

Comments:

N/A; an equipment blank was not required for this work order.

iii. Data quality or usability affected?

Comments:

No, see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

Additional data flags or qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Andrew Frick

Title:

Environmental Scientist

Date:

Janurary 17, 2018

CS Report Name:

20056-004 Miller Salvage

Report Date:

January 8, 2018

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

SGS North America, Inc.

Laboratory Report Number:

1178686

ADEC File Number:

102.23.017

Hazard Identification Number:

1178686

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   (•) Yes ( ) No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   ( ) Yes (•) No Comments:

   N/A; the requested analyses were performed by the SGS of Anchorage, Alaska. The laboratory is ADEC CS certified for the requested analyses.

2. Chain of Custody (CoC)

   a. CoC information completed, signed, and dated (including released/received by)?

   (•) Yes ( ) No Comments:

   b. Correct Analyses requested?

   (•) Yes ( ) No Comments:

   Sample CE-1 was initially submitted under project work order 1178572, but PCB analysis was not requested on the COC. PCBs analysis requested by email on December 28, 2017.

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   (•) Yes ( ) No Comments:

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   (•) Yes ( ) No Comments:

   Preservation is not required for PCB analysis.

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

   (•) Yes ( ) No Comments:

   The laboratory noted that samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

(•) Yes ( ) No Comments:

The email chain for the additional PCB analysis request is included in the lab report.

e. Data quality or usability affected?

Comments:

No.

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

( ) Yes (•) No Comments:

c. Were all corrective actions documented?

( ) Yes (•) No Comments:

No corrective actions were necessary.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

None.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

Correct analyses were performed.

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

(•) Yes ( ) No Comments:

e. Data quality or usability affected?

( ) Yes (•) No Comments:

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

(•) Yes ( ) No Comments:

iii. If above LOQ, what samples are affected?

Comments:

Not applicable.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

Data was not affected.

v. Data quality or usability affected?

Comments:

Data was not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

(•) Yes ( ) No Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (•) No Comments:

Inorganics and metals analyses were not requested in this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

No; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No; see above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

(•) Yes ( ) No Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

Not applicable; see above.

iv. Data quality or usability affected?

Comments:

No; see above.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

( ) Yes (•) No Comments:

Volatile analyses were not requested.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

( ) Yes (•) No Comments:

Not applicable; see above.

iii. All results less than LOQ?

( ) Yes (•) No Comments:

Not applicable; see above.

iv.

v. Data quality or usability affected?

Comments:

No; see above.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

A duplicate sample was not submitted with this work order.

ii. Submitted blind to lab?

○ Yes ◉ No Comments:

No, see above.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

○ Yes ◉ No Comments:

Not applicable.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No; see above.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

○ Yes ○ No ◉ Not Applicable

i. All results less than LOQ?

○ Yes ◉ No Comments:

Not applicable; an equipment blank was not required for this work order.

ii. If above LOQ, what samples are affected?

Comments:

Not applicable; an equipment blank was not required for this work order.

iii. Data quality or usability affected?

Comments:

No, see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

Additional data flags or qualifiers are not required.

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Date:	January 17, 2018
To:	Alaska Department of Environmental Conservation Attn: Robert Burgess
Re:	2017 Site Characterization Summary Report, Miller Salvage, Inc. Property

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ENVIRONMENTAL REPORT

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include: the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used: (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors which were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the
ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland