



**LIMITED PHASE II ENVIRONMENTAL SITE
ASSESSMENT
APPROXIMATE 7.27-ACRE PROPERTY
17691 STATE HIGHWAY 124
BEAUMONT, JEFFERSON COUNTY, TEXAS
20173277.001A**

January 4, 2017

ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.

A Report Prepared for:

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APPROXIMATE 7.27-ACRE PROPERTY
17691 STATE HIGHWAY 124
BEAUMONT, JEFFERSON COUNTY, TEXAS**

Prepared by:

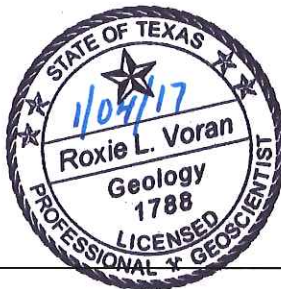


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1 INTRODUCTION

1.1 BACKGROUND

A Limited Phase II Environmental Site Assessment (ESA) was requested by Reich Brothers Holdings, LLC (Reich Brothers, the "Client") to further assess recognized environmental conditions (RECs) at the former EMS Beaumont Facility (Site) located at 17691 State Highway 124, Beaumont, Jefferson County, Texas. The subject property comprises approximately 7.27 acres of land and is surrounded by residential properties. The site location is shown in Figure 1 – Site Location Map.

A Phase I ESA was completed by Mill Creek Environmental, LLC on March 4, 2016. Based on the Phase I ESA, the property has been developed since the early 1950's. Property uses have included a residential dwelling or commercial building, an automotive salvage/repair yard, a construction yard, and most recently, energy services for oil and gas companies.

During completion of the Phase I ESA, the following recognized environmental conditions (RECs) were identified:

- The Site was previously used as an automotive salvage and/or repair facility from the 1960s to the 1980s;
- An approximately 500-gallon used oil aboveground storage tank (AST) with soil staining and pooled liquids was observed in a containment area located immediately outside of the shop building on the south side;
- A fleet fueling area with three ASTs with soil staining and pooled liquids was observed within a concrete containment area on the western portion of the property;
- Two approximately 300-gallon used oil ASTs with soil staining were observed immediately outside the shop building on the east side;
- Two vehicle wash areas that discharge wash water directly to the ground were observed;
- An in-ground service pit was observed in the shop building; and
- Containers and drums of potentially hazardous chemicals and petroleum products were observed with no containment, cover or labeling.

The objective of this Limited Phase II ESA was to assess the potential presence of chemicals of concern in soil and groundwater that may be related to the RECs that were identified during the Phase I ESA.

1.2 SCOPE OF SERVICES

A proposal dated December 15, 2016 was prepared and included a scope of work describing the Limited Phase II Environmental Assessment project. The proposal including the scope of work was approved by Reich Brothers on December 15, 2016 and included the following elements:

- Prepare for field activities including development of a site-specific health and safety plan, identification of underground utility locations, and scheduling,
- Complete three soil borings to a depth of four feet below ground surface (bgs) in areas of visible soil staining,
- Collect up to 2 soil samples from each borehole based on field observations and field screening measurements (photoionization detector),
- Install four additional borings to a maximum total depth of 18 feet bgs, collect one soil sample from each of these borings, and convert into one-inch diameter temporary monitoring wells for the collection of groundwater samples to assess potential impacts to groundwater, and
- Preparation of a report documenting the results of the assessment activities.

1.3 LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. The conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

The scope of work for this project was based on a Phase I ESA report completed by Mill Creek Environmental, LLC dated March 2016, which was provided by Reich Brothers. According to the

guidelines of ASTM Designation E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, a Phase I ESA is presumed to be valid for a period of up to 180 days after the completion of the Phase I ESA. Since the Phase I ESA on which the scope of work for this project was based is more than 180 days old, additional environmental concerns may be present at the Site that were not documented in the Phase I ESA. Additionally, Kleinfelder did not conduct the Phase I ESA and therefore cannot assess if all RECs were identified. Kleinfelder is not responsible for conducting assessment activities related to any such concerns that were not documented in the March 2016 Phase I ESA report.

2 ASSESSMENT ACTIVITIES AND RESULTS

The field assessment activities were completed at the Site on December 20, 2016. Prior to any drilling activities, utility locating services including the Texas Excavation Safety System (Texas811) were employed to identify any underground utility lines in the area of the assessment. A site-specific Health and Safety Plan (HASP) was prepared to describe procedures to be followed by our staff while on site. The HASP was reviewed on-site prior to beginning field activities.

2.1 ASSESSMENT PROCEDURES

On December 20, 2016, Kleinfelder mobilized to the site to install the soil borings/temporary monitoring wells and conduct soil and groundwater sampling. Envirotech Drilling Services, LLC (Envirotech), a State of Texas-licensed water well driller, provided drilling services, using a direct push drill rig.

2.1.1 Assessment Methodology

A total of seven soil borings were completed at the locations shown in Figure 2 – Sample Location Map. While drilling the soil borings, continuous soil cores were obtained, described, and logged under the supervision of a Kleinfelder geologist using the Unified Soil Classification System (USCS) in accordance with ASTM D2488. Soil samples were collected at two foot or smaller intervals based on the lithologic changes from ground surface to total depth, and were field screened for organic vapors using a portable PID and head-space screening technique. No organic vapors were detected in any of the borings by the field screening. Soil boring logs are provided in Appendix A.

Three soil borings (SB-1, SB-2, and SB-3) were drilled to a depth of four feet below ground surface (bgs) in areas of soil staining. Two soil samples were collected for laboratory analysis from each of these borings with one sample collected from within the uppermost two feet just below any gravel that was present and the other sample collected from a depth of approximately four feet below ground surface (bgs).

Four additional soil borings (TMW-1, TMW-2, TMW-3, and TMW-4) were drilled to depths of 18 to 20 feet bgs and were converted to temporary monitoring wells. The temporary monitoring wells were located on the southern side of features that were identified as potential sources of contaminants, which is expected to be the downgradient direction based on the topography of the site area and the regional direction of groundwater flow. One soil sample was collected from each of the borings TMW-1, TMW-2, TMW-3, and TMW-4 at the interval above the saturated zone.

Groundwater was encountered in TMW-1, TMW-2, TMW-3, and TMW-4 at depths ranging from approximately 13 to 16 feet bgs. These soil borings were converted into temporary monitoring wells to facilitate collection of groundwater samples. The temporary monitoring wells were constructed of one-inch diameter Schedule 40 PVC casing and well screen (0.01-inch slot). Screened intervals were selected based on observed subsurface conditions. Each temporary monitoring well was developed by pumping of the groundwater to remove sediment. A groundwater sample was collected from each temporary monitoring well using a pump.

Sampling equipment was decontaminated prior to use at each sample location to prevent cross contamination. The samples were placed into clean, laboratory-provided containers and immediately placed on ice in a chilled cooler for transport to ALS Environmental (ALS), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory in Houston, Texas for analysis.

Upon completion of sample collection, each temporary monitoring well was removed, and all of the borings were backfilled with hydrated bentonite.

2.1.2 Site Geology

The Site topographic gradient slopes gently to the southwest with an elevation of approximately 14 feet above mean sea level (MSL). The Site is underlain by the Quaternary Beaumont Formation which in this region is dominantly deltaic sands and clay. The clays typically have high-water holding capacity, high compressibility, and high to very high shrink-swell potential.

Based on observations made during the drilling activities, the undisturbed shallow subsurface lithology is composed mostly of a brown to gray, firm clay. Underlying the clay at depths ranging

from approximately 13 to 15 feet bgs, the lithology is sandier and is composed of sand and sandy clay.

During drilling activities, no odors were noted and no organic vapors were detected using the PID. Boring logs are included in Appendix A.

2.2 SOIL ASSESSMENT

2.2.1 Soil Analytical Methods and Standards

Soil samples were submitted to ALS Environmental in Houston, Texas for analysis of total petroleum hydrocarbons (TPH) using Texas Method TX1005; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021B; and RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) using EPA Methods 6020A/7471A.

2.2.2 Soil Analytical Results

The analyte concentrations detected in soil samples were initially compared to Tier I Residential Protective Concentration Levels (PCLs) established by the Texas Commission on Environmental Quality (TCEQ) for direct exposure of individuals to chemicals in the soil, designated as ^{Tot}Soil_{Comb} PCLs. The concentrations were also compared to PCLs established to assess leaching of chemicals into groundwater at unsafe levels for drinking, designated as ^{GW}Soil_{Ing} PCLs. Concentrations of metals were also compared to Texas-Specific Median Background Concentrations, which have been established by the TCEQ. Laboratory analytical results for the soil samples are summarized in Tables 1 and 2 and a copy of the laboratory analytical report is included in Appendix B. Following receipt of the final analytical laboratory report, Kleinfelder validated the usability of the soil data. The data validation checklist is included with the laboratory report in Appendix B. The laboratory data for the soil and groundwater samples are usable for the purposes of this report.

Based on the analytical results, TPH and BTEX were not detected at concentrations greater than the laboratory reporting limits in any of the soil samples.

Metals were detected in all of the soil samples. Since metals are known to be present naturally in soil, the detected metals concentrations were compared to the Texas-Specific Median Background Concentrations as well as the PCLs. Lead was detected at a concentration of 145 milligrams per kilogram (mg/kg) in the soil sample from the uppermost two feet in SB-3, which was located in the area of an apparent vehicle washing area on the east-central portion of the Site. This concentration is greater than both the established background concentration (15 mg/kg) and the PCL for leaching to groundwater at unsafe concentrations (3 mg/kg). The lead concentration detected in a soil sample collected from a depth of approximately four feet bgs in SB-3 did not exceed the established background concentration. No other metals concentrations detected in any of the soil samples exceeded both the PCLs and the established background concentrations.

2.3 GROUNDWATER ASSESSMENT

2.3.1 Site Hydrogeology

Saturated soil conditions were encountered during this investigation at depths ranging from approximately 13 to 16 feet bgs. In all four temporary monitoring wells, sand intervals underlying the site-wide clay were observed to be wet and yielded water. Based on the surface topography of the site area and the regional direction of groundwater flow, the general direction of groundwater flow is expected to be to the south.

2.3.2 Groundwater Analytical Methods

Groundwater samples were submitted to ALS Environmental in Houston, Texas for analysis of volatile organic compounds (VOCs) using EPA Method 8260C and TPH using Texas Method TX1005. A total of four groundwater sample samples were collected and analyzed

2.2.3 Groundwater Analytical Results

The analytical results for VOCs and TPH were compared to Tier 1 Residential ^{GW}GW_{ing} PCLs established by the TCEQ to be protective of a Class 1 groundwater resource.

Laboratory analytical results of the groundwater samples are summarized in Table 3. Following receipt of the final analytical laboratory report, Kleinfelder validated the usability of the groundwater data. The data validation checklist is included with the laboratory report in Appendix B.

Based on the analytical results, TPH was not detected at concentrations greater than the laboratory reporting limits in any of the groundwater samples.

The following concentrations of VOCs were detected in groundwater samples:

- Carbon disulfide in TMW-1,
- 1-1-Dichloroethene (DCE) in TMW-1 and TMW-4,
- Ethylbenzene in TMW-3
- Methyl tertiary butyl ether (MTBE) in TMW-1, TMW-2 and TMW-3, and
- 1-1-Dichloroethane (DCA) in TMW-4.

All of these VOC concentrations were less than the PCLs except for the DCE concentration of 0.015 mg/L in TMW-4, which is greater than the PCL of 0.007 mg/L.

2.3 INVESTIGATION-DERIVED WASTE

No investigation-derived waste (IDW) was generated during this assessment that required characterization or removal for off-site disposal.

3 SUMMARY AND CONCLUSIONS

3.1 SUMMARY

A Limited Phase II Environmental Site Assessment (ESA) was conducted at the former EMS Beaumont Facility (Site) located at 17691 State Highway 124, Beaumont, Jefferson County, Texas as requested by Reich Brothers Holdings, LLC (Reich Brothers, the “Client”) to further assess recognized environmental conditions (RECs) at the Site. The subject property comprises approximately 7.27 acres of land and is surrounded by residential properties. The RECs were identified in a Phase I ESA completed by Mill Creek Environmental, LLC on March 4, 2016. Selected site photographs taken on December 20, 2016 are included in Appendix C.

Three soil borings (SB-1, SB-2, and SB-3) were drilled to a depth of four feet below ground surface (bgs) in areas of that were reported to have had soil staining. Two soil samples were collected for laboratory analysis from each of these borings with one sample collected from within the uppermost two feet just below any gravel that was present and the other sample collected from a depth of approximately four feet below ground surface (bgs).

Four additional soil borings (TMW-1, TMW-2, TMW-3, and TMW-4) were drilled to depths of 18 to 20 feet bgs and were converted to temporary monitoring wells. The temporary monitoring wells were located on the southern side of features that were identified as potential sources of contaminants, which is expected to be the downgradient direction based on the topography of the site area and the regional direction of groundwater flow. One soil sample was collected from each of the borings TMW-1, TMW-2, TMW-3, and TMW-4 at the interval above the saturated zone. These soil borings were converted into temporary monitoring wells and groundwater samples were collected from each of the temporary monitoring wells.

Soil samples were analyzed for total petroleum hydrocarbons (TPH) using Texas Method TX1005; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021B; and RCRA 8 metals using EPA Methods 6020A/7471A. A total of ten soil samples were collected and analyzed. Groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260C and TPH using Texas Method TX1005. A total of four groundwater sample samples were collected and analyzed

Based on the analytical results, TPH and BTEX were not detected at concentrations greater than the laboratory reporting limits in any of the soil samples. Metals were detected in all of the soil samples. Lead was detected at a concentration of 145 milligrams per kilogram (mg/kg) in the soil sample from the uppermost two feet in SB-3, which was located in the area of an apparent vehicle washing area on the east-central portion of the Site. This concentration is greater than both the established background concentration (15 mg/kg) and the PCL for leaching to groundwater at unsafe concentrations (3 mg/kg). The lead concentration detected in a soil sample collected from a depth of approximately four feet bgs in SB-3 was 9.85 mg/kg, which did not exceed the established background concentration. No other metals concentrations detected in any of the soil samples exceeded both the PCLs and the established background concentrations.

Based on the analytical results for groundwater samples, TPH was not detected at concentrations greater than the laboratory reporting limits in any of the groundwater samples. Ethylbenzene was detected in the groundwater sample from TMW-3 at an estimated concentration of 0.00079 milligrams per liter (mg/L), which is less than the PCL of 0.7 mg/L. Four additional VOCs, including MTBE, were detected in one or more groundwater samples. MTBE is a common gasoline additive and ethylbenzene is often associated with fuel releases. All of these VOC concentrations were less than the PCLs except for the DCE concentration of 0.015 mg/L in TMW-4, which is greater than the PCL of 0.007 mg/L. DCE is present in chlorinated solvents that are commonly used at industrial facilities.

3.2 CONCLUSIONS

Based on the results of the Limited Phase II ESA summarized above, the following conclusions are presented:

- Lead was detected in a soil sample from the uppermost two feet in soil boring SB-3 at a concentration greater than the Texas-Specific Median Background Concentration and the PCL established by the TCEQ. . The lead concentration detected in a soil sample from approximately four feet bgs in SB-3 was less than the background concentration and the PCL, suggesting that the soil with elevated lead concentrations is limited to the uppermost two to four feet.
- Methyl tertiary butyl ether (MTBE) was detected in groundwater samples from three monitoring wells and ethylbenzene was detected in one groundwater sample. All of the

concentrations were less than the PCLs established by the TCEQ. A release of gasoline may have occurred at the Site, but no concentrations were detected during this limited Phase II ESA that indicate a release that would require investigation and possible corrective action, in accordance with the regulations of the TCEQ.

- 1-1-Dichloroethene (DCE) was detected in the groundwater sample from TMW-4 at a concentration of 0.015 mg/L, which is greater than the PCL of 0.007 mg/L. TMW-4 is located in the area of a former vehicle wash station and a former storage building on the central portion of the Site. The concentration detected in the groundwater sample from TMW-4 is indicative of a release that would require investigation and possible corrective action, in accordance with the regulations of the TCEQ.

TABLES

Table 1
Reich Brothers Holdings, LLC
Limited Phase II ESA, 17691 State Highway 124, Beaumont, Texas
Soil Analytical Results (mg/kg) - BTEX and TPH

Sample ID	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg)			
							C6-C12	C12-C28	C28-C35	Total TPH
Tier 1 Residential ^{Tot} Soil _{Comb} PCL			120	5,900	6,400	6,000	1600	2300	2300	2300
Tier 1 Residential ^{GW} Soil _{Ing} PCL			0.026	8.2	7.6	120	65	200	200	200
Soil Samples										
TMW-1-1216	15	12/20/2016	<0.40	<0.50	<0.50	<0.20	<20	<20	<20	<20
TMW-2-1216	15	12/20/2016	<0.43	<0.54	<0.54	<0.22	<24	<24	<24	<24
TMW-3-1216	12	12/20/2016	<0.44	<0.54	<0.54	<0.22	<19	<19	<19	<19
TMW-4-1216	15	12/20/2016	<0.44	<0.56	<0.56	<0.22	<23	<23	<23	<23
SB-1-2	2	12/20/2016	<0.33	<0.41	<0.41	<0.16	<19	<19	<19	<19
SB-1-4	4	12/20/2016	<0.44	<0.55	<0.55	<0.22	<18	<18	<18	<18
SB-2-2	2	12/20/2016	<0.36	<0.45	<0.45	<0.18	<18	<18	<18	<18
SB-2-4	4	12/20/2016	<0.40	<0.50	<0.50	<0.20	<18	<18	<18	<18
SB-3-2	2	12/20/2016	<0.45	<0.56	<0.56	<0.22	<16	<16	<16	<16
SB-3-4	4	12/20/2016	<0.35	<0.44	<0.44	<0.18	<17	<17	<17	<17

Notes:

mg/kg- milligrams per kilogram or parts per million

TPH - total petroleum hydrocarbons

BTEX - benzene, toluene, ethylbenzene and xylenes

feet bgs - feet below ground surface

<x.x - not detected at or above laboratory reporting limits

PCL - protective concentration limit established by Texas Commission on Environmental Quality

BRL - Below reporting limit of the laboratory

Table 2
Reich Brothers Holdings, LLC
Limited Phase II ESA, 17691 State Highway 124, Beaumont, Texas
Soil Analytical Results (mg/kg) - Metals

Sample ID	Sample Depth (feet bgs)	Sample Date	Percent Moisture	Metals							
				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Tier 1 Residential ^{Soil} PCL				24.0	8100	52	33000	500	3.6	310	97
Tier 1 Residential ^{GW} PCL				5.0	440	1.5	2400	3	0.0078	2.3	0.48
Texas-Specific Median Background Concentrations				5.9	300	NE	30	15	0.04	0.300	NE
Soil Samples											
TMW-1-1216	15	12/20/2016	15.4%	3.20	7.43	<0.0561	2.65	2.41	0.0336	0.635	<0.0897
TMW-2-1216	15	12/20/2016	17.4%	0.819	8.26	<0.0580	3.68	3.57	0.00789	0.401 J	<0.0927
TMW-3-1216	12	12/20/2016	23.8%	0.575 J	81.2	<0.0624	8.67	8.03	0.00682	0.282 J	<0.0999
TMW-4-1216	15	12/20/2016	18.2%	1.02	3.70	<0.0580	1.86	1.79	0.00854	0.693	<0.0928
SB-1-2	2	12/20/2016	12.7%	1.54	44.2	0.0787 J	5.42	13.8	0.0174	0.402 J	<0.0878
SB-1-4	4	12/20/2016	19.3%	2.90	82.5	0.0718 J	9.15	11.1	0.0185	0.567 J	<0.0934
SB-2-2	2	12/20/2016	16.6%	1.08	62.4	0.0772 J	6.56	10.0	0.0243	0.476 J	<0.0876
SB-2-4	4	12/20/2016	19.2%	1.95	66.6	<0.0572	11.0	9.13	0.0194	0.682	<0.0916
SB-3-2	2	12/20/2016	10.4%	4.42	126	0.160 J	36.5	145	0.0379	0.427 J	<0.0849
SB-3-4	4	12/20/2016	16.9%	1.40	93.5	<0.0569	6.65	9.85	0.0167	0.448 J	<0.0911

Notes:

mg/kg - milligrams per kilogram or parts per million

J - Estimated value

<x.x - not detected at or above laboratory reporting limits

feet bgs - feet below ground surface

HIGHLIGHTED indicates exceedance of Tier 1 Residential^{Soil} PCL and Texas-Specific Median Background Concentration

NE - not established

TABLE 3
Reich Brothers Holdings, LLC
Limited Phase II ESA, 17691 State Highway 124, Beaumont, Texas
Groundwater Analytical Results (mg/L) - VOCs and TPH

Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Carbon Disulfide (mg/L)	1,1-Dichloroethane (mg/L)	1,1-Dichloroethene (mg/L)	Methyl Tert-Butyl Ether (mg/L)	Other VOCs	TPH (mg/L)			
											C6-C12	C12-C28	C28-C35	Total TPH
Tier 1 Residential^{GW}GW_{ing} PCL		0.005	1.0	0.7	10	2.4	4.9	0.007	0.24	Various	0.98	0.98	0.98	NE
TMW-1	12/20/2016	<0.00020	<0.00020	<0.00030	<0.00030	0.00096 J	<0.00020	0.00075 J	0.00073 J	BRL	<0.21	<0.21	<0.21	<0.21
TMW-2	12/20/2016	<0.00020	<0.00020	<0.00030	<0.00030	<0.00060	<0.00020	<0.00020	0.00090 J	BRL	<0.22	<0.22	<0.22	<0.22
TMW-3	12/20/2016	<0.00020	<0.00020	0.00079 J	<0.00030	<0.00060	<0.00020	<0.00020	0.0086	BRL	<0.21	<0.21	<0.21	<0.21
TMW-4	12/20/2016	<0.00020	<0.00020	<0.00030	<0.00030	<0.00060	0.00085 J	0.015	<0.00020	BRL	<0.20	<0.20	<0.20	<0.20

Notes:

mg/L - milligrams per liter

TPH - total petroleum hydrocarbons

VOCs - volatile organic compounds

<x.x - not detected at or above laboratory reporting limit shown

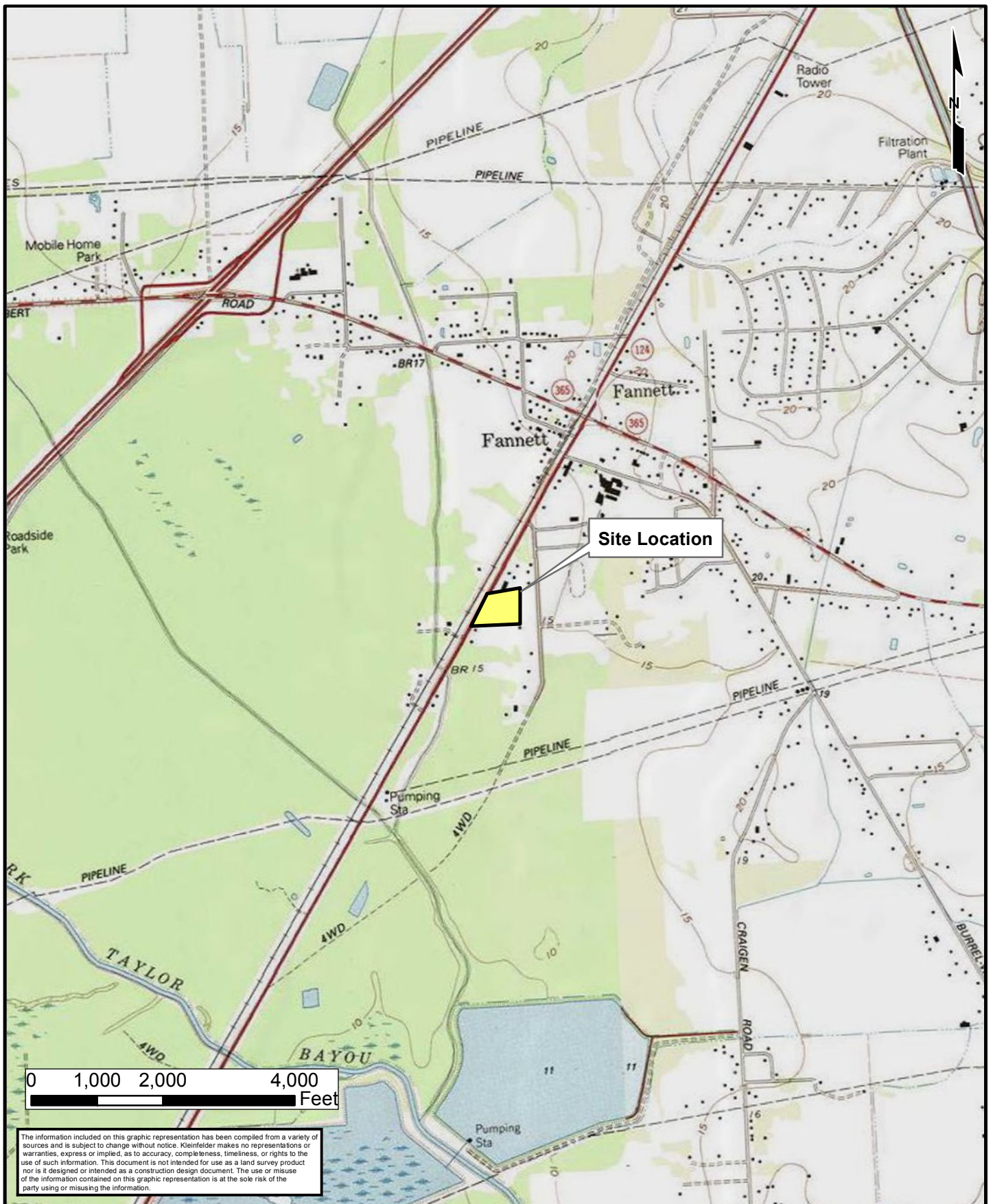
BRL - Below laboratory reporting limits

HIGHLIGHTED indicates exceedance of Tier 1 Residential^{GW}GW_{ing} Protective Concentration Limit (PCL)

J - The target analyte was positively identified below the quantitation limit and above the detection limit.

NE - Not established

FIGURES



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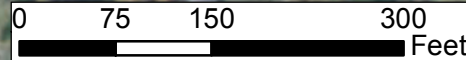


PROJECT NO.	20173277
DRAWN:	12/28/2016
DRAWN BY:	A.Leonard
CHECKED BY:	R.Voran
FILE NAME:	Fig1_SiteLocation.mxd

Site Location Map

Reich Brothers Holdings, LLC
Limited Phase II ESA
17691 State Highway 124
Beaumont, Texas

FIGURE
1



The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

Legend	
●	Soil Boring
⊕	Temporary Monitoring Well

	PROJECT NO. 20173277	Sample Location Map	FIGURE
	DRAWN: 1/3/2017		2
	DRAWN BY: A.Leonard		
	CHECKED BY: R.Voran	Reich Brothers Holdings, LLC Limited Phase II ESA 17691 State Highway 124 Beaumont, Texas	
FILE NAME: Fig2_SampleLocation.mxd			

APPENDIX A

BORING AND TEMPORARY MONITORING WELL LOGS

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016	Drilling Company: EnviroTech	BORING LOG SB-1
Logged By: A. Benavides	Drill Crew: Richard/Ronnie	
Hor.-Vert. Datum: Not Available	Drilling Equipment: Power Probe	
Plunge: -90 degrees	Drilling Method: Direct Push Sleeves	
Weather: Clear, 40°	Exploration Diameter: 2 in. O.D.	


Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	FIELD EXPLORATION
				100%			Surface Condition: Gravel
							Lithologic Description
							GRAVEL Lean CLAY (CL): dark brown and black, moist, hard - soft at 3'
5							The exploration was terminated at approximately 4 ft. below ground surface. GROUNDWATER LEVEL INFORMATION: Groundwater was not encountered during drilling or after completion. GENERAL NOTES: The boring was backfilled with cuttings on December 20, 2016.

GINT FILE: Klf_gint_master_2016
GINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]

	PROJECT NO.: 20173277	BORING LOG SB-1	SB-1
	DRAWN BY: AZ CHECKED BY: CB DATE: 1/3/2017 REVISED: -	Reich Brothers Holdings, LLC Limited Phase II ESA 17691 State Highway 124 Beaumont, Texas	
			PAGE: 1 of 1

Date Begin - End: 12/20/2016	Drilling Company: EnviroTech	BORING LOG SB-2
Logged By: A. Benavides	Drill Crew: Richard/Ronnie	
Hor.-Vert. Datum: Not Available	Drilling Equipment: Power Probe	
Plunge: -90 degrees	Drilling Method: Direct Push Sleeves	
Weather: Clear, 40°	Exploration Diameter: 2 in. O.D.	

FIELD EXPLORATION						
Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
				100%		Surface Condition: Gravel
						Lithologic Description
						GRAVEL
						Lean CLAY (CL) : dark brown, moist, hard
5					0.0	
					0.0	
				<p>The exploration was terminated at approximately 4 ft. below ground surface.</p> <p>GROUNDWATER LEVEL INFORMATION: Groundwater was not encountered during drilling or after completion.</p> <p>GENERAL NOTES: The boring was backfilled with cuttings on December 20, 2016.</p>		

	PROJECT NO.: 20173277	BORING LOG SB-2	SB-2
	DRAWN BY: AZ		
	CHECKED BY: CB	Reich Brothers Holdings, LLC Limited Phase II ESA 17691 State Highway 124 Beaumont, Texas	
	DATE: 1/3/2017		
	REVISED: -		
		PAGE: 1 of 1	

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016
Logged By: A. Benavides
Hor.-Vert. Datum: Not Available
Plunge: -90 degrees
Weather: Clear, 40°

Drilling Company: EnviroTech
Drill Crew: Richard/Ronnie
Drilling Equipment: Power Probe
Drilling Method: Direct Push Sleeves
Exploration Diameter: 2 in. O.D.

BORING LOG SB-3

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
				100%			Surface Condition: Gravel
							Lithologic Description
							GRAVEL
							Lean CLAY (CL) : brown, moist, hard
					0.0		- soft at 3'
					0.0		

The exploration was terminated at approximately 4 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
 The boring was backfilled with cuttings on December 20, 2016.

5



PROJECT NO.: 20173277
 DRAWN BY: AZ
 CHECKED BY: CB
 DATE: 1/3/2017
 REVISED: -

BORING LOG SB-3

Reich Brothers Holdings, LLC
 Limited Phase II ESA
 17691 State Highway 124
 Beaumont, Texas

SB-3

PAGE: 1 of 1

GINT FILE: Klf_gint_master_2016
 GINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016
Logged By: A. Benavides
Hor.-Vert. Datum: Not Available
Plunge: -90 degrees
Weather: Clear, 40°

Drilling Company: EnviroTech
Drill Crew: Richard/Ronnie
Drilling Equipment: Power Probe
Drilling Method: Direct Push Sleeves
Exploration Diameter: 2 in. O.D.

BORING LOG TMW-1

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	Surface Condition: Gravel	
							Lithologic Description	
				20%	0.0		GRAVEL	No recovery 1' to 4'
					0.0			
5				100%	0.0		Lean CLAY (CL): dark brown, soft, medium plasticity	
					0.0		Lean CLAY (CL): gray, moist, firm, medium plasticity	
					0.0		Lean CLAY (CL): light gray, with mottling, moist, firm	
				100%	0.0			
10					0.0			- becoming soft at 11'
				75%	0.0		SAND (SP): gray, moist, medium dense	
					0.0		SAND (SP): gray, moist, dense, saturated	
15			TMW-1-1216	100%	0.0		SAND (SP): brown, wet	
					0.0		SAND (SP): brown, saturated, dense	
20								

The exploration was terminated at approximately 18 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 ∇ Groundwater was observed at approximately 16 ft. below ground surface during drilling.
GENERAL NOTES:
 Connected to a temporary monitoring well.
 The boring was backfilled with bentonite on December 20, 2016.



PROJECT NO.: 20173277
 DRAWN BY: AZ
 CHECKED BY: CB
 DATE: 1/3/2017
 REVISED: -

BORING LOG TMW-1

Reich Brothers Holdings, LLC
 Limited Phase II ESA
 17691 State Highway 124
 Beaumont, Texas

TMW-1

gint FILE: Klf_gint_master_2016
 gint TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016
Logged By: A. Benavides
Hor.-Vert. Datum: Not Available
Plunge: -90 degrees
Weather: Cloudy, 40°
Drilling Company: EnviroTech
Drill Crew: Richard/Ronnie
Drilling Equipment: Power Probe
Drilling Method: Direct Push Sleeves
Exploration Diameter: 2 in. O.D.

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	Lithologic Description
							Surface Condition: Gravel
				100%			GRAVEL
				0.0			Lean CLAY (CL): dark brown, moist, firm
				0.0			Lean CLAY (CL): olive brown, moist, firm
5				100%			Lean CLAY (CL): brown, moist, soft
				0.0			
				100%			Lean CLAY (CL): brown, moist, soft
				0.0			
				100%			Sandy CLAY (CL): light gray, moist, medium plasticity
				0.0			Lean CLAY (CL): yellow brown, saturated, soft, medium plasticity
				100%			Silty CLAY (CL-ML): yellow brown and light gray, saturated, soft
				0.0			
15			TMW-2-1216	100%			SAND (SP): light gray, saturated, dense
				0.0			SAND (SP): brown, wet, loose
				0.0			
20				0.0			Fat CLAY (CH): light gray, soft, high plasticity

The exploration was terminated at approximately 20 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 ∇ Groundwater was observed at approximately 16 ft. below ground surface during drilling.
GENERAL NOTES:
 Connected to a temporary monitoring well.
 The boring was backfilled with bentonite on December 20, 2016.

GINT FILE: Klf_gint_master_2016
 GINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]



PROJECT NO.: 20173277
 DRAWN BY: AZ
 CHECKED BY: CB
 DATE: 1/3/2017
 REVISED: -

BORING LOG TMW-2

Reich Brothers Holdings, LLC
 Limited Phase II ESA
 17691 State Highway 124
 Beaumont, Texas

TMW-2

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016
Logged By: A. Benavides
Hor.-Vert. Datum: Not Available
Plunge: -90 degrees
Weather: Clear, 40°

Drilling Company: EnviroTech
Drill Crew: Richard/Ronnie
Drilling Equipment: Power Probe
Drilling Method: Direct Push Sleeves
Exploration Diameter: 2 in. O.D.

BORING LOG TMW-3

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	Lithologic Description
							Surface Condition: Gravel
				50%	0.0		GRAVEL / ROAD BASE
					0.0		Lean CLAY (CL): dark brown, moist, firm
5				100%	0.0		Lean CLAY (CL): brown, moist, firm, medium plasticity
					0.0		
				50%	0.0		No recovery 8' to 10'
10					0.0		Sandy CLAY (CL): light gray, moist, low plasticity
			TMW-3-1216	100%	0.0		Silty CLAY (CL-ML): gray, saturated, soft
					0.0		SAND (SP): light gray, wet, loose
15					0.0		Lean CLAY (CL): brown with gray mottling, saturated, hard
				100%	0.0		Sandy CLAY (CL): brown, saturated
					0.0		SAND (SP): yellow brown, moist, loose
20					0.0		

The exploration was terminated at approximately 20 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 ∇ Groundwater was observed at approximately 13 ft. below ground surface during drilling.
GENERAL NOTES:
 Connected to a temporary monitoring well.
 The boring was backfilled with bentonite on December 20, 2016.

GINT FILE: Klf_gint_master_2016
 GINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]



PROJECT NO.: 20173277
 DRAWN BY: AZ
 CHECKED BY: CB
 DATE: 1/3/2017
 REVISED: -

BORING LOG TMW-3

Reich Brothers Holdings, LLC
 Limited Phase II ESA
 17691 State Highway 124
 Beaumont, Texas

TMW-3

PLOTTED: 01/03/2017 12:02 PM BY: azomorrodian

Date Begin - End: 12/20/2016
Logged By: A. Benavides
Hor.-Vert. Datum: Not Available
Plunge: -90 degrees
Weather: Clear, 40°

Drilling Company: EnviroTech
Drill Crew: Richard/Ronnie
Drilling Equipment: Power Probe
Drilling Method: Direct Push Sleeves
Exploration Diameter: 2 in. O.D.

BORING LOG TMW-4

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	Lithologic Description
							Surface Condition: Gravel
				50%	0.0		GRAVEL
					0.0		Lean CLAY (CL): dark brown and black, moist, hard
					0.0		Lean CLAY (CL): dark brown and gray, firm
5				100%	0.0		Lean CLAY (CL): gray with brown mottling, firm
					0.0		
				50%	0.0		Lean CLAY (CL): gray, moist, firm
					0.0		Sandy CLAY (CL): gray and yellow brown, soft
15			TMW-4-1216	100%	0.0		SAND (SP): gray, saturated, loose
					0.0		SAND (SP): brown, wet, loose
					0.0		SAND (SP): brown, dense
20					0.0		

The exploration was terminated at approximately 20 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 ∇ Groundwater was observed at approximately 16 ft. below ground surface during drilling.
GENERAL NOTES:
 Connected to a temporary monitoring well.
 The boring was backfilled with bentonite on December 20, 2016.

gint FILE: Klf_gint_master_2016
 gint TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2016.GLB [KLF_ENVIRONMENTAL LOG]



PROJECT NO.: 20173277
 DRAWN BY: AZ
 CHECKED BY: CB
 DATE: 1/3/2017
 REVISED: -

BORING LOG TMW-4

Reich Brothers Holdings, LLC
 Limited Phase II ESA
 17691 State Highway 124
 Beaumont, Texas

TMW-4

APPENDIX B

LABORATORY REPORT

Project: Reich Brothers Holdings, LLC. EMS BMT		Reviewer: K. Scheller		Review Date: 1-3-17
Laboratory: ALS Environmental, Houston Work Order No.: HS16121088		Analytical Methods: VOCs by 8260; TPH by TX1005; BTEX by 8021B; 7 metals by 6020; Hg by 7471A		Matrices: 10 Soil and 4 Groundwater (TMW) samples
#	Review Item or Question	Yes	No	Comments
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (<i>e.g.</i> , 4°C, correct acid added to sample)?	X		1.8 and 1.4 Celcius
2	Were holding times met?	X		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	X		
4	Was the requested analytical method followed?	X		
5	Do reported detection limits (or reporting limits/MDLs) agree with the project specifications (QAPP)?	X		
6	Are results reported for all samples submitted for analysis?	X		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a			Not reported.
8	For each analytical batch, are results provided for a method blank?	X		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	X		LCS only (no LCSD) for VOCs, BTEX and 8 metals
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	X		Project samples: TMW-1-1216 for TPH and 7 6020 metals; TMW-2-1216 for TPH
11	Are field duplicate results provided at the project-specified (QAPP) frequency?			No field duplicates were submitted to lab.
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?	X		

Project: Reich Brothers Holdings, LLC. EMS BMT		Reviewer: K. Scheller		Review Date: 1-3-17
Laboratory: ALS Environmental, Houston Work Order No.: HS16121088		Analytical Methods: VOCs by 8260; TPH by TX1005; BTEX by 8021B; 7 metals by 6020; Hg by 7471A		Matrices: 10 Soil and 4 Groundwater (TMW) samples
#	Review Item or Question	Yes	No	Comments
QC Results				
13	Do method blank (MB) results show no detectable concentrations of target analytes (<i>i.e.</i> , results = ND)?		X	Hg (mercury) in soil MB. All Hg soil results >5x MB. No qualifiers applied.
14	Are LCS/LCSD recoveries and RPDs within limits?	X		
15	Are MS/MSD recoveries and RPDs within limits?	X		Applicable only when project samples used
16	Are surrogate recoveries within limits (organic analyses only)?	X		
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	X		The lab did not issue a CAR.
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	X		
19	No other potential data quality issues were identified. If this is not true, describe issues.		X	Cyclohexane is not offered for accreditation by TCEQ and sample results are estimated.

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report QAPP = Quality Assurance Project Plan

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

RPD = Relative Percent Difference MB – analytical method blank

Notes:

Based on this data quality assessment effort, no data validation qualifiers have been applied. Cyclohexane is not offered for accreditation by the TCEQ and each groundwater cyclohexane result is considered to be an estimated result. The lab applied a “J” flag (for estimated result) when analytes were reported between the sample detection limit (SDL) and method quantitation limit (MQL). These estimated “J” flag results are retained.



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www.alsglobal.com

December 30, 2016

Albano Benavides
Kleinfelder
12000 Aerospace Ave.
Suite 450
Houston, TX 77034

Work Order: **HS16121088**

Laboratory Results for: **EMS BMT Facility**

Dear Albano,

ALS Environmental received 14 sample(s) on Dec 21, 2016 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Generated By: Jumoke.Lawal
Sonia West
Project Manager

Client: Kleinfelder
Project: EMS BMT Facility
Work Order: HS16121088

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16121088-01	TMW-1-1216	Soil		20-Dec-2016 10:05	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-02	TMW-2-1216	Soil		20-Dec-2016 10:45	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-03	TMW-3-1216	Soil		20-Dec-2016 11:35	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-04	TMW-4-1216	Soil		20-Dec-2016 12:15	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-05	SB-1-2	Soil		20-Dec-2016 13:15	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-06	SB-1-4	Soil		20-Dec-2016 13:20	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-07	SB-2-2	Soil		20-Dec-2016 13:50	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-08	SB-2-4	Soil		20-Dec-2016 13:55	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-09	SB-3-2	Soil		20-Dec-2016 14:20	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-10	SB-3-4	Soil		20-Dec-2016 14:25	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-11	TMW-1-GW	Water		20-Dec-2016 14:53	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-12	TMW-2-GW	Water		20-Dec-2016 15:15	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-13	TMW-3-GW	Water		20-Dec-2016 15:37	21-Dec-2016 12:19	<input type="checkbox"/>
HS16121088-14	TMW-4-GW	Water		20-Dec-2016 15:52	21-Dec-2016 12:19	<input type="checkbox"/>

Client: Kleinfelder
Project: EMS BMT Facility
Work Order: HS16121088

CASE NARRATIVE

Work Order Comments

- The soil sample containers for TPH by method TX1005 were received with ~5 grams (1 plug) in each vial.

GC Semivolatiles by Method TX1005

Batch ID: 110983

Sample ID: **HS16120718-01MS**
• MS and MSD are for an unrelated sample

Batch ID: 111004,111039

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8021B

Batch ID: R287176

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R287361

Sample ID: **HS16121264-02MS**
• MS and MSD are for an unrelated sample

Metals by Method SW7471A

Batch ID: 111054

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020

Batch ID: 111040

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW3550

Batch ID: R287250

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-1-1216
 Collection Date: 20-Dec-2016 10:05

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B					Analyst: SFE
Benzene	< 0.40		0.40	0.99	ug/Kg-dry	1	22-Dec-2016 14:21
m,p-Xylene	< 0.40		0.40	2.0	ug/Kg-dry	1	22-Dec-2016 14:21
o-Xylene	< 0.20		0.20	0.99	ug/Kg-dry	1	22-Dec-2016 14:21
Toluene	< 0.50		0.50	0.99	ug/Kg-dry	1	22-Dec-2016 14:21
Ethylbenzene	< 0.50		0.50	0.99	ug/Kg-dry	1	22-Dec-2016 14:21
Xylenes, Total	< 0.20		0.20	0.99	ug/Kg-dry	1	22-Dec-2016 14:21
Surr: 4-Bromofluorobenzene	131			75-131	%REC	1	22-Dec-2016 14:21
Surr: Trifluorotoluene	112			73-130	%REC	1	22-Dec-2016 14:21
TEXAS TPH BY TX1005		Method:TX1005				Prep:TX1005PR / 22-Dec-2016	Analyst: HPP
nC6 to nC12	< 20		20	98	mg/Kg-dry	1	26-Dec-2016 14:53
>nC12 to nC28	< 20		20	98	mg/Kg-dry	1	26-Dec-2016 14:53
>nC28 to nC35	< 20		20	98	mg/Kg-dry	1	26-Dec-2016 14:53
Total Petroleum Hydrocarbon	< 20		20	98	mg/Kg-dry	1	26-Dec-2016 14:53
Surr: 2-Fluorobiphenyl	72.0			70-130	%REC	1	26-Dec-2016 14:53
Surr: Trifluoromethyl benzene	87.2			70-130	%REC	1	26-Dec-2016 14:53
METALS BY SW6020A		Method:SW6020				Prep:SW3050A / 27-Dec-2016	Analyst: JDE
Arsenic	3.20		0.112	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Barium	7.43		0.0897	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Cadmium	< 0.0561		0.0561	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Chromium	2.65		0.101	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Lead	2.41		0.0561	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Selenium	0.635		0.202	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
Silver	< 0.0897		0.0897	0.561	mg/Kg-dry	1	27-Dec-2016 19:17
MERCURY BY SW7471B		Method:SW7471A				Prep:SW7471A / 27-Dec-2016	Analyst: OFO
Mercury	33.6		0.569	4.02	ug/Kg-dry	1	27-Dec-2016 15:17
MOISTURE		Method:SW3550					Analyst: DFF
Percent Moisture	15.4		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-2-1216
 Collection Date: 20-Dec-2016 10:45

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.43		0.43	1.1	ug/Kg-dry	1	22-Dec-2016 13:12
m,p-Xylene	< 0.43		0.43	2.2	ug/Kg-dry	1	22-Dec-2016 13:12
o-Xylene	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 13:12
Toluene	< 0.54		0.54	1.1	ug/Kg-dry	1	22-Dec-2016 13:12
Ethylbenzene	< 0.54		0.54	1.1	ug/Kg-dry	1	22-Dec-2016 13:12
Xylenes, Total	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 13:12
Surr: 4-Bromofluorobenzene	130			75-131	%REC	1	22-Dec-2016 13:12
Surr: Trifluorotoluene	124			73-130	%REC	1	22-Dec-2016 13:12
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 24		24	120	mg/Kg-dry	1	26-Dec-2016 17:13
>nC12 to nC28	< 24		24	120	mg/Kg-dry	1	26-Dec-2016 17:13
>nC28 to nC35	< 24		24	120	mg/Kg-dry	1	26-Dec-2016 17:13
Total Petroleum Hydrocarbon	< 24		24	120	mg/Kg-dry	1	26-Dec-2016 17:13
Surr: 2-Fluorobiphenyl	73.8			70-130	%REC	1	26-Dec-2016 17:13
Surr: Trifluoromethyl benzene	94.9			70-130	%REC	1	26-Dec-2016 17:13
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	0.819		0.116	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Barium	8.26		0.0927	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Cadmium	< 0.0580		0.0580	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Chromium	3.68		0.104	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Lead	3.57		0.0580	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Selenium	0.401	J	0.209	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
Silver	< 0.0927		0.0927	0.580	mg/Kg-dry	1	27-Dec-2016 19:39
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	7.89		0.598	4.23	ug/Kg-dry	1	27-Dec-2016 15:22
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	17.4		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-3-1216
 Collection Date: 20-Dec-2016 11:35

ANALYTICAL REPORT

WorkOrder:HS16121088
 Lab ID:HS16121088-03
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.44		0.44	1.1	ug/Kg-dry	1	22-Dec-2016 14:44
m,p-Xylene	< 0.44		0.44	2.2	ug/Kg-dry	1	22-Dec-2016 14:44
o-Xylene	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 14:44
Toluene	< 0.54		0.54	1.1	ug/Kg-dry	1	22-Dec-2016 14:44
Ethylbenzene	< 0.54		0.54	1.1	ug/Kg-dry	1	22-Dec-2016 14:44
Xylenes, Total	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 14:44
Surr: 4-Bromofluorobenzene	129			75-131	%REC	1	22-Dec-2016 14:44
Surr: Trifluorotoluene	123			73-130	%REC	1	22-Dec-2016 14:44
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 19		19	93	mg/Kg-dry	1	26-Dec-2016 17:47
>nC12 to nC28	< 19		19	93	mg/Kg-dry	1	26-Dec-2016 17:47
>nC28 to nC35	< 19		19	93	mg/Kg-dry	1	26-Dec-2016 17:47
Total Petroleum Hydrocarbon	< 19		19	93	mg/Kg-dry	1	26-Dec-2016 17:47
Surr: 2-Fluorobiphenyl	74.6			70-130	%REC	1	26-Dec-2016 17:47
Surr: Trifluoromethyl benzene	96.3			70-130	%REC	1	26-Dec-2016 17:47
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	0.575	J	0.125	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Barium	81.2		0.0999	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Cadmium	< 0.0624		0.0624	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Chromium	8.67		0.112	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Lead	8.03		0.0624	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Selenium	0.282	J	0.225	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
Silver	< 0.0999		0.0999	0.624	mg/Kg-dry	1	27-Dec-2016 19:44
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	6.82		0.641	4.54	ug/Kg-dry	1	27-Dec-2016 15:23
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	23.8		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-4-1216
 Collection Date: 20-Dec-2016 12:15

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-04
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.44		0.44	1.1	ug/Kg-dry	1	22-Dec-2016 15:07
m,p-Xylene	< 0.44		0.44	2.2	ug/Kg-dry	1	22-Dec-2016 15:07
o-Xylene	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 15:07
Toluene	< 0.56		0.56	1.1	ug/Kg-dry	1	22-Dec-2016 15:07
Ethylbenzene	< 0.56		0.56	1.1	ug/Kg-dry	1	22-Dec-2016 15:07
Xylenes, Total	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 15:07
Surr: 4-Bromofluorobenzene	128			75-131	%REC	1	22-Dec-2016 15:07
Surr: Trifluorotoluene	122			73-130	%REC	1	22-Dec-2016 15:07
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 23		23	110	mg/Kg-dry	1	26-Dec-2016 18:22
>nC12 to nC28	< 23		23	110	mg/Kg-dry	1	26-Dec-2016 18:22
>nC28 to nC35	< 23		23	110	mg/Kg-dry	1	26-Dec-2016 18:22
Total Petroleum Hydrocarbon	< 23		23	110	mg/Kg-dry	1	26-Dec-2016 18:22
Surr: 2-Fluorobiphenyl	72.8			70-130	%REC	1	26-Dec-2016 18:22
Surr: Trifluoromethyl benzene	92.6			70-130	%REC	1	26-Dec-2016 18:22
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	1.02		0.116	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Barium	3.70		0.0928	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Cadmium	< 0.0580		0.0580	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Chromium	1.86		0.104	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Lead	1.79		0.0580	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Selenium	0.693		0.209	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
Silver	< 0.0928		0.0928	0.580	mg/Kg-dry	1	27-Dec-2016 19:57
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	8.54		0.579	4.10	ug/Kg-dry	1	27-Dec-2016 15:25
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	18.2		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-1-2
 Collection Date: 20-Dec-2016 13:15

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-05
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.33		0.33	0.81	ug/Kg-dry	1	22-Dec-2016 16:46
m,p-Xylene	< 0.33		0.33	1.6	ug/Kg-dry	1	22-Dec-2016 16:46
o-Xylene	< 0.16		0.16	0.81	ug/Kg-dry	1	22-Dec-2016 16:46
Toluene	< 0.41		0.41	0.81	ug/Kg-dry	1	22-Dec-2016 16:46
Ethylbenzene	< 0.41		0.41	0.81	ug/Kg-dry	1	22-Dec-2016 16:46
Xylenes, Total	< 0.16		0.16	0.81	ug/Kg-dry	1	22-Dec-2016 16:46
Surr: 4-Bromofluorobenzene	128			75-131	%REC	1	22-Dec-2016 16:46
Surr: Trifluorotoluene	117			73-130	%REC	1	22-Dec-2016 16:46
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 19		19	95	mg/Kg-dry	1	26-Dec-2016 18:56
>nC12 to nC28	< 19		19	95	mg/Kg-dry	1	26-Dec-2016 18:56
>nC28 to nC35	< 19		19	95	mg/Kg-dry	1	26-Dec-2016 18:56
Total Petroleum Hydrocarbon	< 19		19	95	mg/Kg-dry	1	26-Dec-2016 18:56
Surr: 2-Fluorobiphenyl	72.3			70-130	%REC	1	26-Dec-2016 18:56
Surr: Trifluoromethyl benzene	89.6			70-130	%REC	1	26-Dec-2016 18:56
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	1.54		0.110	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Barium	44.2		0.0878	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Cadmium	0.0787	J	0.0548	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Chromium	5.42		0.0987	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Lead	13.8		0.0548	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Selenium	0.402	J	0.197	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
Silver	< 0.0878		0.0878	0.548	mg/Kg-dry	1	27-Dec-2016 20:02
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	17.4		0.543	3.84	ug/Kg-dry	1	27-Dec-2016 15:27
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	12.7		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-1-4
 Collection Date: 20-Dec-2016 13:20

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-06
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.44		0.44	1.1	ug/Kg-dry	1	22-Dec-2016 17:09
m,p-Xylene	< 0.44		0.44	2.2	ug/Kg-dry	1	22-Dec-2016 17:09
o-Xylene	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 17:09
Toluene	< 0.55		0.55	1.1	ug/Kg-dry	1	22-Dec-2016 17:09
Ethylbenzene	< 0.55		0.55	1.1	ug/Kg-dry	1	22-Dec-2016 17:09
Xylenes, Total	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 17:09
Surr: 4-Bromofluorobenzene	130			75-131	%REC	1	22-Dec-2016 17:09
Surr: Trifluorotoluene	125			73-130	%REC	1	22-Dec-2016 17:09
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 18		18	90	mg/Kg-dry	1	26-Dec-2016 19:30
>nC12 to nC28	< 18		18	90	mg/Kg-dry	1	26-Dec-2016 19:30
>nC28 to nC35	< 18		18	90	mg/Kg-dry	1	26-Dec-2016 19:30
Total Petroleum Hydrocarbon	< 18		18	90	mg/Kg-dry	1	26-Dec-2016 19:30
Surr: 2-Fluorobiphenyl	72.0			70-130	%REC	1	26-Dec-2016 19:30
Surr: Trifluoromethyl benzene	90.9			70-130	%REC	1	26-Dec-2016 19:30
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	2.90		0.117	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Barium	82.5		0.0934	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Cadmium	0.0718	J	0.0584	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Chromium	9.15		0.105	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Lead	11.1		0.0584	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Selenium	0.567	J	0.210	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
Silver	< 0.0934		0.0934	0.584	mg/Kg-dry	1	27-Dec-2016 20:06
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	18.5		0.600	4.24	ug/Kg-dry	1	27-Dec-2016 15:29
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	19.3		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-2-2
 Collection Date: 20-Dec-2016 13:50

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-07
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.36		0.36	0.90	ug/Kg-dry	1	22-Dec-2016 17:32
m,p-Xylene	< 0.36		0.36	1.8	ug/Kg-dry	1	22-Dec-2016 17:32
o-Xylene	< 0.18		0.18	0.90	ug/Kg-dry	1	22-Dec-2016 17:32
Toluene	< 0.45		0.45	0.90	ug/Kg-dry	1	22-Dec-2016 17:32
Ethylbenzene	< 0.45		0.45	0.90	ug/Kg-dry	1	22-Dec-2016 17:32
Xylenes, Total	< 0.18		0.18	0.90	ug/Kg-dry	1	22-Dec-2016 17:32
Surr: 4-Bromofluorobenzene	128			75-131	%REC	1	22-Dec-2016 17:32
Surr: Trifluorotoluene	126			73-130	%REC	1	22-Dec-2016 17:32
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 18		18	92	mg/Kg-dry	1	26-Dec-2016 20:04
>nC12 to nC28	< 18		18	92	mg/Kg-dry	1	26-Dec-2016 20:04
>nC28 to nC35	< 18		18	92	mg/Kg-dry	1	26-Dec-2016 20:04
Total Petroleum Hydrocarbon	< 18		18	92	mg/Kg-dry	1	26-Dec-2016 20:04
Surr: 2-Fluorobiphenyl	72.4			70-130	%REC	1	26-Dec-2016 20:04
Surr: Trifluoromethyl benzene	82.7			70-130	%REC	1	26-Dec-2016 20:04
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	1.08		0.109	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Barium	62.4		0.0876	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Cadmium	0.0772	J	0.0547	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Chromium	6.56		0.0985	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Lead	10.0		0.0547	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Selenium	0.476	J	0.197	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
Silver	< 0.0876		0.0876	0.547	mg/Kg-dry	1	27-Dec-2016 20:10
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	24.3		0.596	4.21	ug/Kg-dry	1	27-Dec-2016 15:30
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	16.6		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-2-4
 Collection Date: 20-Dec-2016 13:55

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-08
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.40		0.40	1.0	ug/Kg-dry	1	22-Dec-2016 17:55
m,p-Xylene	< 0.40		0.40	2.0	ug/Kg-dry	1	22-Dec-2016 17:55
o-Xylene	< 0.20		0.20	1.0	ug/Kg-dry	1	22-Dec-2016 17:55
Toluene	< 0.50		0.50	1.0	ug/Kg-dry	1	22-Dec-2016 17:55
Ethylbenzene	< 0.50		0.50	1.0	ug/Kg-dry	1	22-Dec-2016 17:55
Xylenes, Total	< 0.20		0.20	1.0	ug/Kg-dry	1	22-Dec-2016 17:55
Surr: 4-Bromofluorobenzene	131			75-131	%REC	1	22-Dec-2016 17:55
Surr: Trifluorotoluene	116			73-130	%REC	1	22-Dec-2016 17:55
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 18		18	88	mg/Kg-dry	1	26-Dec-2016 20:38
>nC12 to nC28	< 18		18	88	mg/Kg-dry	1	26-Dec-2016 20:38
>nC28 to nC35	< 18		18	88	mg/Kg-dry	1	26-Dec-2016 20:38
Total Petroleum Hydrocarbon	< 18		18	88	mg/Kg-dry	1	26-Dec-2016 20:38
Surr: 2-Fluorobiphenyl	72.2			70-130	%REC	1	26-Dec-2016 20:38
Surr: Trifluoromethyl benzene	85.8			70-130	%REC	1	26-Dec-2016 20:38
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	1.95		0.114	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Barium	66.6		0.0916	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Cadmium	< 0.0572		0.0572	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Chromium	11.0		0.103	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Lead	9.13		0.0572	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Selenium	0.682		0.206	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
Silver	< 0.0916		0.0916	0.572	mg/Kg-dry	1	27-Dec-2016 20:15
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	19.4		0.603	4.27	ug/Kg-dry	1	27-Dec-2016 15:32
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	19.2		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-3-2
 Collection Date: 20-Dec-2016 14:20

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-09
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.45		0.45	1.1	ug/Kg-dry	1	22-Dec-2016 18:18
m,p-Xylene	< 0.45		0.45	2.2	ug/Kg-dry	1	22-Dec-2016 18:18
o-Xylene	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 18:18
Toluene	< 0.56		0.56	1.1	ug/Kg-dry	1	22-Dec-2016 18:18
Ethylbenzene	< 0.56		0.56	1.1	ug/Kg-dry	1	22-Dec-2016 18:18
Xylenes, Total	< 0.22		0.22	1.1	ug/Kg-dry	1	22-Dec-2016 18:18
Surr: 4-Bromofluorobenzene	123			75-131	%REC	1	22-Dec-2016 18:18
Surr: Trifluorotoluene	115			73-130	%REC	1	22-Dec-2016 18:18
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 27-Dec-2016		Analyst: HPP	
nC6 to nC12	< 16		16	79	mg/Kg-dry	1	27-Dec-2016 20:33
>nC12 to nC28	< 16		16	79	mg/Kg-dry	1	27-Dec-2016 20:33
>nC28 to nC35	< 16		16	79	mg/Kg-dry	1	27-Dec-2016 20:33
Total Petroleum Hydrocarbon	< 16		16	79	mg/Kg-dry	1	27-Dec-2016 20:33
Surr: 2-Fluorobiphenyl	99.7			70-130	%REC	1	27-Dec-2016 20:33
Surr: Trifluoromethyl benzene	87.5			70-130	%REC	1	27-Dec-2016 20:33
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	4.42		0.106	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Barium	126		0.0849	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Cadmium	0.160	J	0.0531	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Chromium	36.5		0.0956	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Lead	145		0.0531	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Selenium	0.427	J	0.191	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
Silver	< 0.0849		0.0849	0.531	mg/Kg-dry	1	27-Dec-2016 20:19
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	37.9		0.540	3.82	ug/Kg-dry	1	27-Dec-2016 15:34
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	10.4		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: SB-3-4
 Collection Date: 20-Dec-2016 14:25

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-10
 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
BTEX BY SW8021B		Method:SW8021B		Analyst: SFE			
Benzene	< 0.35		0.35	0.88	ug/Kg-dry	1	22-Dec-2016 18:41
m,p-Xylene	< 0.35		0.35	1.8	ug/Kg-dry	1	22-Dec-2016 18:41
o-Xylene	< 0.18		0.18	0.88	ug/Kg-dry	1	22-Dec-2016 18:41
Toluene	< 0.44		0.44	0.88	ug/Kg-dry	1	22-Dec-2016 18:41
Ethylbenzene	< 0.44		0.44	0.88	ug/Kg-dry	1	22-Dec-2016 18:41
Xylenes, Total	< 0.18		0.18	0.88	ug/Kg-dry	1	22-Dec-2016 18:41
Surr: 4-Bromofluorobenzene	124			75-131	%REC	1	22-Dec-2016 18:41
Surr: Trifluorotoluene	110			73-130	%REC	1	22-Dec-2016 18:41
TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 27-Dec-2016		Analyst: HPP	
nC6 to nC12	< 17		17	87	mg/Kg-dry	1	27-Dec-2016 21:01
>nC12 to nC28	< 17		17	87	mg/Kg-dry	1	27-Dec-2016 21:01
>nC28 to nC35	< 17		17	87	mg/Kg-dry	1	27-Dec-2016 21:01
Total Petroleum Hydrocarbon	< 17		17	87	mg/Kg-dry	1	27-Dec-2016 21:01
Surr: 2-Fluorobiphenyl	98.2			70-130	%REC	1	27-Dec-2016 21:01
Surr: Trifluoromethyl benzene	88.8			70-130	%REC	1	27-Dec-2016 21:01
METALS BY SW6020A		Method:SW6020		Prep:SW3050A / 27-Dec-2016		Analyst: JDE	
Arsenic	1.40		0.114	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Barium	93.5		0.0911	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Cadmium	< 0.0569		0.0569	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Chromium	6.65		0.102	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Lead	9.85		0.0569	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Selenium	0.448	J	0.205	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
Silver	< 0.0911		0.0911	0.569	mg/Kg-dry	1	27-Dec-2016 20:24
MERCURY BY SW7471B		Method:SW7471A		Prep:SW7471A / 27-Dec-2016		Analyst: OFO	
Mercury	16.7		0.606	4.29	ug/Kg-dry	1	27-Dec-2016 15:35
MOISTURE		Method:SW3550		Analyst: DFF			
Percent Moisture	16.9		0.0100	0.0100	wt%	1	27-Dec-2016 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-1-GW
 Collection Date: 20-Dec-2016 14:53

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-11
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
1,1,2,2-Tetrachloroethane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:02
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:02
1,1,2-Trichloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
1,1-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
1,1-Dichloroethene	0.75	J	0.20	1.0	ug/L	1	28-Dec-2016 18:02
1,2,4-Trichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:02
1,2-Dibromo-3-chloropropane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:02
1,2-Dibromoethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
1,2-Dichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:02
1,2-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
1,2-Dichloropropane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:02
1,3-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:02
1,4-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:02
2-Butanone	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:02
2-Hexanone	< 1.0		1.0	2.0	ug/L	1	28-Dec-2016 18:02
4-Methyl-2-pentanone	< 0.70		0.70	2.0	ug/L	1	28-Dec-2016 18:02
Acetone	< 2.0		2.0	2.0	ug/L	1	28-Dec-2016 18:02
Benzene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Bromodichloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Bromoform	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:02
Bromomethane	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:02
Carbon disulfide	0.96	J	0.60	2.0	ug/L	1	28-Dec-2016 18:02
Carbon tetrachloride	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:02
Chlorobenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Chloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Chloroform	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Chloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
cis-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
cis-1,3-Dichloropropene	< 0.10		0.10	1.0	ug/L	1	28-Dec-2016 18:02
Cyclohexane	< 0.30	n	0.30	1.0	ug/L	1	28-Dec-2016 18:02
Dibromochloromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Dichlorodifluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Dichloromethane	< 0.50		0.50	10	ug/L	1	28-Dec-2016 18:02
Ethylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Isopropylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
m,p-Xylene	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:02
Methyl acetate	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:02
Methyl tert-butyl ether	0.73	J	0.20	1.0	ug/L	1	28-Dec-2016 18:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-1-GW
 Collection Date: 20-Dec-2016 14:53

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-11
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
Methylcyclohexane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
o-Xylene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Styrene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Tetrachloroethene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Toluene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
trans-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
trans-1,3-Dichloropropene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Trichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Trichlorofluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
Vinyl chloride	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:02
Xylenes, Total	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>97.0</i>			<i>70-125</i>	<i>%REC</i>	<i>1</i>	<i>28-Dec-2016 18:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>72-125</i>	<i>%REC</i>	<i>1</i>	<i>28-Dec-2016 18:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>94.6</i>			<i>71-125</i>	<i>%REC</i>	<i>1</i>	<i>28-Dec-2016 18:02</i>
<i>Surr: Toluene-d8</i>	<i>104</i>			<i>75-125</i>	<i>%REC</i>	<i>1</i>	<i>28-Dec-2016 18:02</i>
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 05:41
>nC12 to nC28	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 05:41
>nC28 to nC35	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 05:41
Total Petroleum Hydrocarbon	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 05:41
<i>Surr: 2-Fluorobiphenyl</i>	<i>85.3</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>23-Dec-2016 05:41</i>
<i>Surr: Trifluoromethyl benzene</i>	<i>102</i>			<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>23-Dec-2016 05:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-2-GW
 Collection Date: 20-Dec-2016 15:15

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-12
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
1,1,2,2-Tetrachloroethane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:28
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:28
1,1,2-Trichloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
1,1-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
1,1-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
1,2,4-Trichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:28
1,2-Dibromo-3-chloropropane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:28
1,2-Dibromoethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
1,2-Dichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:28
1,2-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
1,2-Dichloropropane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:28
1,3-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:28
1,4-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:28
2-Butanone	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:28
2-Hexanone	< 1.0		1.0	2.0	ug/L	1	28-Dec-2016 18:28
4-Methyl-2-pentanone	< 0.70		0.70	2.0	ug/L	1	28-Dec-2016 18:28
Acetone	< 2.0		2.0	2.0	ug/L	1	28-Dec-2016 18:28
Benzene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Bromodichloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Bromoform	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:28
Bromomethane	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:28
Carbon disulfide	< 0.60		0.60	2.0	ug/L	1	28-Dec-2016 18:28
Carbon tetrachloride	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:28
Chlorobenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Chloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Chloroform	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Chloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
cis-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
cis-1,3-Dichloropropene	< 0.10		0.10	1.0	ug/L	1	28-Dec-2016 18:28
Cyclohexane	< 0.30	n	0.30	1.0	ug/L	1	28-Dec-2016 18:28
Dibromochloromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Dichlorodifluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Dichloromethane	< 0.50		0.50	10	ug/L	1	28-Dec-2016 18:28
Ethylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Isopropylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
m,p-Xylene	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:28
Methyl acetate	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:28
Methyl tert-butyl ether	0.90	J	0.20	1.0	ug/L	1	28-Dec-2016 18:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-2-GW
 Collection Date: 20-Dec-2016 15:15

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-12
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
Methylcyclohexane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
o-Xylene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Styrene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Tetrachloroethene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Toluene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
trans-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
trans-1,3-Dichloropropene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Trichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Trichlorofluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Vinyl chloride	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:28
Xylenes, Total	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:28
Surr: 1,2-Dichloroethane-d4	97.4			70-125	%REC	1	28-Dec-2016 18:28
Surr: 4-Bromofluorobenzene	98.0			72-125	%REC	1	28-Dec-2016 18:28
Surr: Dibromofluoromethane	95.3			71-125	%REC	1	28-Dec-2016 18:28
Surr: Toluene-d8	101			75-125	%REC	1	28-Dec-2016 18:28
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 0.22		0.22	0.54	mg/L	1	23-Dec-2016 06:13
>nC12 to nC28	< 0.22		0.22	0.54	mg/L	1	23-Dec-2016 06:13
>nC28 to nC35	< 0.22		0.22	0.54	mg/L	1	23-Dec-2016 06:13
Total Petroleum Hydrocarbon	< 0.22		0.22	0.54	mg/L	1	23-Dec-2016 06:13
Surr: 2-Fluorobiphenyl	89.4			70-130	%REC	1	23-Dec-2016 06:13
Surr: Trifluoromethyl benzene	105			70-130	%REC	1	23-Dec-2016 06:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-3-GW
 Collection Date: 20-Dec-2016 15:37

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-13
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
1,1,2,2-Tetrachloroethane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:54
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:54
1,1,2-Trichloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
1,1-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
1,1-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
1,2,4-Trichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:54
1,2-Dibromo-3-chloropropane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:54
1,2-Dibromoethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
1,2-Dichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:54
1,2-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
1,2-Dichloropropane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:54
1,3-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:54
1,4-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:54
2-Butanone	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:54
2-Hexanone	< 1.0		1.0	2.0	ug/L	1	28-Dec-2016 18:54
4-Methyl-2-pentanone	< 0.70		0.70	2.0	ug/L	1	28-Dec-2016 18:54
Acetone	< 2.0		2.0	2.0	ug/L	1	28-Dec-2016 18:54
Benzene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Bromodichloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Bromoform	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:54
Bromomethane	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 18:54
Carbon disulfide	< 0.60		0.60	2.0	ug/L	1	28-Dec-2016 18:54
Carbon tetrachloride	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 18:54
Chlorobenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Chloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Chloroform	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Chloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
cis-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
cis-1,3-Dichloropropene	< 0.10		0.10	1.0	ug/L	1	28-Dec-2016 18:54
Cyclohexane	< 0.30	n	0.30	1.0	ug/L	1	28-Dec-2016 18:54
Dibromochloromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Dichlorodifluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Dichloromethane	< 0.50		0.50	10	ug/L	1	28-Dec-2016 18:54
Ethylbenzene	0.79	J	0.30	1.0	ug/L	1	28-Dec-2016 18:54
Isopropylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
m,p-Xylene	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 18:54
Methyl acetate	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 18:54
Methyl tert-butyl ether	8.6		0.20	1.0	ug/L	1	28-Dec-2016 18:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-3-GW
 Collection Date: 20-Dec-2016 15:37

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-13
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
Methylcyclohexane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
o-Xylene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Styrene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Tetrachloroethene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Toluene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
trans-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
trans-1,3-Dichloropropene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Trichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Trichlorofluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Vinyl chloride	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 18:54
Xylenes, Total	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 18:54
Surr: 1,2-Dichloroethane-d4	96.5			70-125	%REC	1	28-Dec-2016 18:54
Surr: 4-Bromofluorobenzene	99.5			72-125	%REC	1	28-Dec-2016 18:54
Surr: Dibromofluoromethane	96.0			71-125	%REC	1	28-Dec-2016 18:54
Surr: Toluene-d8	99.8			75-125	%REC	1	28-Dec-2016 18:54
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 06:45
>nC12 to nC28	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 06:45
>nC28 to nC35	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 06:45
Total Petroleum Hydrocarbon	< 0.21		0.21	0.52	mg/L	1	23-Dec-2016 06:45
Surr: 2-Fluorobiphenyl	87.9			70-130	%REC	1	23-Dec-2016 06:45
Surr: Trifluoromethyl benzene	104			70-130	%REC	1	23-Dec-2016 06:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-4-GW
 Collection Date: 20-Dec-2016 15:52

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-14
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
1,1,2,2-Tetrachloroethane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 19:20
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 19:20
1,1,2-Trichloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
1,1-Dichloroethane	0.85	J	0.20	1.0	ug/L	1	28-Dec-2016 19:20
1,1-Dichloroethene	15		0.20	1.0	ug/L	1	28-Dec-2016 19:20
1,2,4-Trichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 19:20
1,2-Dibromo-3-chloropropane	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 19:20
1,2-Dibromoethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
1,2-Dichlorobenzene	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 19:20
1,2-Dichloroethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
1,2-Dichloropropane	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 19:20
1,3-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 19:20
1,4-Dichlorobenzene	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 19:20
2-Butanone	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 19:20
2-Hexanone	< 1.0		1.0	2.0	ug/L	1	28-Dec-2016 19:20
4-Methyl-2-pentanone	< 0.70		0.70	2.0	ug/L	1	28-Dec-2016 19:20
Acetone	< 2.0		2.0	2.0	ug/L	1	28-Dec-2016 19:20
Benzene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Bromodichloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Bromoform	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 19:20
Bromomethane	< 0.40		0.40	1.0	ug/L	1	28-Dec-2016 19:20
Carbon disulfide	< 0.60		0.60	2.0	ug/L	1	28-Dec-2016 19:20
Carbon tetrachloride	< 0.50		0.50	1.0	ug/L	1	28-Dec-2016 19:20
Chlorobenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Chloroethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Chloroform	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Chloromethane	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
cis-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
cis-1,3-Dichloropropene	< 0.10		0.10	1.0	ug/L	1	28-Dec-2016 19:20
Cyclohexane	< 0.30	n	0.30	1.0	ug/L	1	28-Dec-2016 19:20
Dibromochloromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Dichlorodifluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Dichloromethane	< 0.50		0.50	10	ug/L	1	28-Dec-2016 19:20
Ethylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Isopropylbenzene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
m,p-Xylene	< 0.50		0.50	2.0	ug/L	1	28-Dec-2016 19:20
Methyl acetate	< 1.0		1.0	1.0	ug/L	1	28-Dec-2016 19:20
Methyl tert-butyl ether	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
 Project: EMS BMT Facility
 Sample ID: TMW-4-GW
 Collection Date: 20-Dec-2016 15:52

ANALYTICAL REPORT
 WorkOrder:HS16121088
 Lab ID:HS16121088-14
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TCL VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
Methylcyclohexane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
o-Xylene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Styrene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Tetrachloroethene	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Toluene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
trans-1,2-Dichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
trans-1,3-Dichloropropene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Trichloroethene	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Trichlorofluoromethane	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
Vinyl chloride	< 0.20		0.20	1.0	ug/L	1	28-Dec-2016 19:20
Xylenes, Total	< 0.30		0.30	1.0	ug/L	1	28-Dec-2016 19:20
<i>Surr: 1,2-Dichloroethane-d4</i>	96.7			70-125	%REC	1	28-Dec-2016 19:20
<i>Surr: 4-Bromofluorobenzene</i>	98.7			72-125	%REC	1	28-Dec-2016 19:20
<i>Surr: Dibromofluoromethane</i>	95.5			71-125	%REC	1	28-Dec-2016 19:20
<i>Surr: Toluene-d8</i>	103			75-125	%REC	1	28-Dec-2016 19:20
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005		Prep:TX1005PR / 22-Dec-2016		Analyst: HPP	
nC6 to nC12	< 0.20		0.20	0.50	mg/L	1	23-Dec-2016 07:17
>nC12 to nC28	< 0.20		0.20	0.50	mg/L	1	23-Dec-2016 07:17
>nC28 to nC35	< 0.20		0.20	0.50	mg/L	1	23-Dec-2016 07:17
Total Petroleum Hydrocarbon	< 0.20		0.20	0.50	mg/L	1	23-Dec-2016 07:17
<i>Surr: 2-Fluorobiphenyl</i>	89.8			70-130	%REC	1	23-Dec-2016 07:17
<i>Surr: Trifluoromethyl benzene</i>	106			70-130	%REC	1	23-Dec-2016 07:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

Batch ID: 1469 **Method:** BTEX BY SW8021B **Prep:**

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS16121088-01	1	5.97 (g)	5 (mL)	0.84	TerraCore (5035A)
HS16121088-02	1	5.6 (g)	5 (mL)	0.89	TerraCore (5035A)
HS16121088-03	1	6 (g)	5 (mL)	0.83	TerraCore (5035A)
HS16121088-04	1	5.49 (g)	5 (mL)	0.91	TerraCore (5035A)
HS16121088-05	1	7.04 (g)	5 (mL)	0.71	TerraCore (5035A)
HS16121088-06	1	5.66 (g)	5 (mL)	0.88	TerraCore (5035A)
HS16121088-07	1	6.65 (g)	5 (mL)	0.75	TerraCore (5035A)
HS16121088-08	1	6.19 (g)	5 (mL)	0.81	TerraCore (5035A)
HS16121088-09	1	4.99 (g)	5 (mL)	1	TerraCore (5035A)
HS16121088-10	1	6.83 (g)	5 (mL)	0.73	TerraCore (5035A)

Batch ID: 110983 **Method:** LOW-LEVEL TEXAS TPH BY TX1005 **Prep:** TX 1005_W PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS16121088-11	1	29.06	3 (mL)	0.1032	
HS16121088-12	1	27.68	3 (mL)	0.1084	
HS16121088-13	1	28.88	3 (mL)	0.1039	
HS16121088-14	1	30.18	3 (mL)	0.0994	

Batch ID: 111004 **Method:** TEXAS TPH BY TX1005 **Prep:** TX 1005_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS16121088-01	1	6.01	10 (mL)	1.664	
HS16121088-02	1	5.08	10 (mL)	1.969	
HS16121088-03	1	7.02	10 (mL)	1.425	
HS16121088-04	1	5.36	10 (mL)	1.866	
HS16121088-05	1	6.05	10 (mL)	1.653	
HS16121088-06	1	6.86	10 (mL)	1.458	
HS16121088-07	1	6.53	10 (mL)	1.531	
HS16121088-08	1	7.03	10 (mL)	1.422	

Batch ID: 111039 **Method:** TEXAS TPH BY TX1005 **Prep:** TX 1005_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS16121088-09	1	7.09	10 (mL)	1.41	
HS16121088-10	1	6.95	10 (mL)	1.439	

WEIGHT LOG

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

Batch ID: 111040 **Method:** METALS BY SW6020A **Prep:** 3050_I_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS16121088-01	1	0.5269	50 (mL)	94.89
HS16121088-02	1	0.5222	50 (mL)	95.75
HS16121088-03	1	0.5256	50 (mL)	95.13
HS16121088-04	1	0.5267	50 (mL)	94.93
HS16121088-05	1	0.5221	50 (mL)	95.77
HS16121088-06	1	0.5305	50 (mL)	94.25
HS16121088-07	1	0.5477	50 (mL)	91.29
HS16121088-08	1	0.5405	50 (mL)	92.51
HS16121088-09	1	0.5256	50 (mL)	95.13
HS16121088-10	1	0.5284	50 (mL)	94.63

Batch ID: 111054 **Method:** MERCURY BY SW7471B **Prep:** HG_S_LOWPR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS16121088-01	1	0.5859	40 (mL)	68.27
HS16121088-02	1	0.5705	40 (mL)	70.11
HS16121088-03	1	0.5773	40 (mL)	69.29
HS16121088-04	1	0.5954	40 (mL)	67.18
HS16121088-05	1	0.5947	40 (mL)	67.26
HS16121088-06	1	0.5827	40 (mL)	68.65
HS16121088-07	1	0.5678	40 (mL)	70.45
HS16121088-08	1	0.5787	40 (mL)	69.12
HS16121088-09	1	0.5824	40 (mL)	68.68
HS16121088-10	1	0.5596	40 (mL)	71.48

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 110983		Test Name : LOW-LEVEL TEXAS TPH BY TX1005		Matrix: Water		
HS16121088-11	TMW-1-GW	20 Dec 2016 14:53		22 Dec 2016 09:40	23 Dec 2016 05:41	1
HS16121088-12	TMW-2-GW	20 Dec 2016 15:15		22 Dec 2016 09:40	23 Dec 2016 06:13	1
HS16121088-13	TMW-3-GW	20 Dec 2016 15:37		22 Dec 2016 09:40	23 Dec 2016 06:45	1
HS16121088-14	TMW-4-GW	20 Dec 2016 15:52		22 Dec 2016 09:40	23 Dec 2016 07:17	1
Batch ID 111004		Test Name : TEXAS TPH BY TX1005		Matrix: Soil		
HS16121088-01	TMW-1-1216	20 Dec 2016 10:05		22 Dec 2016 13:01	26 Dec 2016 14:53	1
HS16121088-02	TMW-2-1216	20 Dec 2016 10:45		22 Dec 2016 13:01	26 Dec 2016 17:13	1
HS16121088-03	TMW-3-1216	20 Dec 2016 11:35		22 Dec 2016 13:01	26 Dec 2016 17:47	1
HS16121088-04	TMW-4-1216	20 Dec 2016 12:15		22 Dec 2016 13:01	26 Dec 2016 18:22	1
HS16121088-05	SB-1-2	20 Dec 2016 13:15		22 Dec 2016 13:01	26 Dec 2016 18:56	1
HS16121088-06	SB-1-4	20 Dec 2016 13:20		22 Dec 2016 13:01	26 Dec 2016 19:30	1
HS16121088-07	SB-2-2	20 Dec 2016 13:50		22 Dec 2016 13:01	26 Dec 2016 20:04	1
HS16121088-08	SB-2-4	20 Dec 2016 13:55		22 Dec 2016 13:01	26 Dec 2016 20:38	1
Batch ID 111039		Test Name : TEXAS TPH BY TX1005		Matrix: Soil		
HS16121088-09	SB-3-2	20 Dec 2016 14:20		27 Dec 2016 10:43	27 Dec 2016 20:33	1
HS16121088-10	SB-3-4	20 Dec 2016 14:25		27 Dec 2016 10:43	27 Dec 2016 21:01	1
Batch ID 111040		Test Name : METALS BY SW6020A		Matrix: Soil		
HS16121088-01	TMW-1-1216	20 Dec 2016 10:05		27 Dec 2016 12:30	27 Dec 2016 19:17	1
HS16121088-02	TMW-2-1216	20 Dec 2016 10:45		27 Dec 2016 12:30	27 Dec 2016 19:39	1
HS16121088-03	TMW-3-1216	20 Dec 2016 11:35		27 Dec 2016 12:30	27 Dec 2016 19:44	1
HS16121088-04	TMW-4-1216	20 Dec 2016 12:15		27 Dec 2016 12:30	27 Dec 2016 19:57	1
HS16121088-05	SB-1-2	20 Dec 2016 13:15		27 Dec 2016 12:30	27 Dec 2016 20:02	1
HS16121088-06	SB-1-4	20 Dec 2016 13:20		27 Dec 2016 12:30	27 Dec 2016 20:06	1
HS16121088-07	SB-2-2	20 Dec 2016 13:50		27 Dec 2016 12:30	27 Dec 2016 20:10	1
HS16121088-08	SB-2-4	20 Dec 2016 13:55		27 Dec 2016 12:30	27 Dec 2016 20:15	1
HS16121088-09	SB-3-2	20 Dec 2016 14:20		27 Dec 2016 12:30	27 Dec 2016 20:19	1
HS16121088-10	SB-3-4	20 Dec 2016 14:25		27 Dec 2016 12:30	27 Dec 2016 20:24	1
Batch ID 111054		Test Name : MERCURY BY SW7471B		Matrix: Soil		
HS16121088-01	TMW-1-1216	20 Dec 2016 10:05		27 Dec 2016 11:03	27 Dec 2016 15:17	1
HS16121088-02	TMW-2-1216	20 Dec 2016 10:45		27 Dec 2016 11:03	27 Dec 2016 15:22	1
HS16121088-03	TMW-3-1216	20 Dec 2016 11:35		27 Dec 2016 11:03	27 Dec 2016 15:23	1
HS16121088-04	TMW-4-1216	20 Dec 2016 12:15		27 Dec 2016 11:03	27 Dec 2016 15:25	1
HS16121088-05	SB-1-2	20 Dec 2016 13:15		27 Dec 2016 11:03	27 Dec 2016 15:27	1
HS16121088-06	SB-1-4	20 Dec 2016 13:20		27 Dec 2016 11:03	27 Dec 2016 15:29	1
HS16121088-07	SB-2-2	20 Dec 2016 13:50		27 Dec 2016 11:03	27 Dec 2016 15:30	1
HS16121088-08	SB-2-4	20 Dec 2016 13:55		27 Dec 2016 11:03	27 Dec 2016 15:32	1
HS16121088-09	SB-3-2	20 Dec 2016 14:20		27 Dec 2016 11:03	27 Dec 2016 15:34	1
HS16121088-10	SB-3-4	20 Dec 2016 14:25		27 Dec 2016 11:03	27 Dec 2016 15:35	1

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R287176		Test Name : BTEX BY SW8021B			Matrix: Soil	
HS16121088-01	TMW-1-1216	20 Dec 2016 10:05			22 Dec 2016 14:21	1
HS16121088-02	TMW-2-1216	20 Dec 2016 10:45			22 Dec 2016 13:12	1
HS16121088-03	TMW-3-1216	20 Dec 2016 11:35			22 Dec 2016 14:44	1
HS16121088-04	TMW-4-1216	20 Dec 2016 12:15			22 Dec 2016 15:07	1
HS16121088-05	SB-1-2	20 Dec 2016 13:15			22 Dec 2016 16:46	1
HS16121088-06	SB-1-4	20 Dec 2016 13:20			22 Dec 2016 17:09	1
HS16121088-07	SB-2-2	20 Dec 2016 13:50			22 Dec 2016 17:32	1
HS16121088-08	SB-2-4	20 Dec 2016 13:55			22 Dec 2016 17:55	1
HS16121088-09	SB-3-2	20 Dec 2016 14:20			22 Dec 2016 18:18	1
HS16121088-10	SB-3-4	20 Dec 2016 14:25			22 Dec 2016 18:41	1
Batch ID R287250		Test Name : MOISTURE			Matrix: Soil	
HS16121088-01	TMW-1-1216	20 Dec 2016 10:05			27 Dec 2016 11:30	1
HS16121088-02	TMW-2-1216	20 Dec 2016 10:45			27 Dec 2016 11:30	1
HS16121088-03	TMW-3-1216	20 Dec 2016 11:35			27 Dec 2016 11:30	1
HS16121088-04	TMW-4-1216	20 Dec 2016 12:15			27 Dec 2016 11:30	1
HS16121088-05	SB-1-2	20 Dec 2016 13:15			27 Dec 2016 11:30	1
HS16121088-06	SB-1-4	20 Dec 2016 13:20			27 Dec 2016 11:30	1
HS16121088-07	SB-2-2	20 Dec 2016 13:50			27 Dec 2016 11:30	1
HS16121088-08	SB-2-4	20 Dec 2016 13:55			27 Dec 2016 11:30	1
HS16121088-09	SB-3-2	20 Dec 2016 14:20			27 Dec 2016 11:30	1
HS16121088-10	SB-3-4	20 Dec 2016 14:25			27 Dec 2016 11:30	1
Batch ID R287361		Test Name : TCL VOLATILES - SW8260C			Matrix: Water	
HS16121088-11	TMW-1-GW	20 Dec 2016 14:53			28 Dec 2016 18:02	1
HS16121088-12	TMW-2-GW	20 Dec 2016 15:15			28 Dec 2016 18:28	1
HS16121088-13	TMW-3-GW	20 Dec 2016 15:37			28 Dec 2016 18:54	1
HS16121088-14	TMW-4-GW	20 Dec 2016 15:52			28 Dec 2016 19:20	1

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 110983	Instrument: FID-12	Method: TX1005
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MBLK	Sample ID: MBLK-110983	Units: mg/L	Analysis Date: 22-Dec-2016 17:14							
Client ID:	Run ID: FID-12_287384	SeqNo: 3947669	PrepDate: 22-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	< 0.20	0.50								
>nC12 to nC28	< 0.20	0.50								
>nC28 to nC35	< 0.20	0.50								
Total Petroleum Hydrocarbon	< 0.20	0.50								
Surr: 2-Fluorobiphenyl	2.223	0	2.5	0	88.9	70 - 130				
Surr: Trifluoromethyl benzene	2.559	0	2.5	0	102	70 - 130				

MBLK	Sample ID: MBLK-110983	Units: mg/L	Analysis Date: 22-Dec-2016 17:14							
Client ID:	Run ID: FID-12_287386	SeqNo: 3947701	PrepDate: 22-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Total Petroleum Hydrocarbon	< 0.20	0.50								
Surr: 2-Fluorobiphenyl	2.222	0	2.5	0	88.9	70 - 130				
Surr: Trifluoromethyl benzene	2.582	0	2.5	0	103	70 - 130				

LCS	Sample ID: LCS-110983	Units: mg/L	Analysis Date: 22-Dec-2016 17:47							
Client ID:	Run ID: FID-12_287384	SeqNo: 3947670	PrepDate: 22-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	24.29	0.50	25	0	97.1	75 - 125				
>nC12 to nC28	21.39	0.50	25	0	85.6	75 - 125				
Surr: 2-Fluorobiphenyl	2.167	0	2.5	0	86.7	70 - 130				
Surr: Trifluoromethyl benzene	2.418	0	2.5	0	96.7	70 - 130				

LCSD	Sample ID: LCSD-110983	Units: mg/L	Analysis Date: 22-Dec-2016 18:20							
Client ID:	Run ID: FID-12_287384	SeqNo: 3947671	PrepDate: 22-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	24.5	0.50	25	0	98.0	75 - 125	24.29	0.878	20	
>nC12 to nC28	21.14	0.50	25	0	84.6	75 - 125	21.39	1.18	20	
Surr: 2-Fluorobiphenyl	2.088	0	2.5	0	83.5	70 - 130	2.167	3.7	20	
Surr: Trifluoromethyl benzene	2.524	0	2.5	0	101	70 - 130	2.418	4.26	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 110983		Instrument: FID-12		Method: TX1005					
MS	Sample ID: HS16120718-01MS	Units: mg/L			Analysis Date: 22-Dec-2016 19:25				
Client ID:	Run ID: FID-12_287384	SeqNo: 3947673		PrepDate: 22-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

nC6 to nC12	28.86	0.49	24.39	0	118	75 - 125			
>nC12 to nC28	29.63	0.49	24.39	18.89	44.1	75 - 125			S
Surr: 2-Fluorobiphenyl	2.694	0	2.439	0	110	70 - 130			
Surr: Trifluoromethyl benzene	2.791	0	2.439	0	114	70 - 130			

MSD	Sample ID: HS16120718-01MSD	Units: mg/L			Analysis Date: 22-Dec-2016 19:59				
Client ID:	Run ID: FID-12_287384	SeqNo: 3947674		PrepDate: 22-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

nC6 to nC12	28.57	0.48	24.17	0	118	75 - 125	28.86	1.01	20
>nC12 to nC28	30.35	0.48	24.17	18.89	47.4	75 - 125	29.63	2.4	20 S
Surr: 2-Fluorobiphenyl	2.765	0	2.417	0	114	70 - 130	2.694	2.61	20
Surr: Trifluoromethyl benzene	2.782	0	2.417	0	115	70 - 130	2.791	0.322	20

The following samples were analyzed in this batch:

HS16121088-11	HS16121088-12	HS16121088-13	HS16121088-14
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Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111004 **Instrument:** FID-12 **Method:** TX1005

MBLK		Sample ID: MBLK-111004		Units: mg/Kg		Analysis Date: 26-Dec-2016 13:09				
Client ID:		Run ID: FID-12_287480		SeqNo: 3949772		PrepDate: 22-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	< 10	50								
>nC12 to nC28	< 10	50								
>nC28 to nC35	< 10	50								
Total Petroleum Hydrocarbon	< 10	50								
Surr: 2-Fluorobiphenyl	18.39	0	25	0	73.5	70 - 130				
Surr: Trifluoromethyl benzene	22.11	0	25	0	88.5	70 - 130				

LCS		Sample ID: LCS-111004		Units: mg/Kg		Analysis Date: 26-Dec-2016 13:44				
Client ID:		Run ID: FID-12_287480		SeqNo: 3949773		PrepDate: 22-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	235	50	250	0	94.0	75 - 125				
>nC12 to nC28	199.9	50	250	0	80.0	75 - 125				
Surr: 2-Fluorobiphenyl	18.13	0	25	0	72.5	70 - 130				
Surr: Trifluoromethyl benzene	21.81	0	25	0	87.2	70 - 130				

LCSD		Sample ID: LCSD-111004		Units: mg/Kg		Analysis Date: 26-Dec-2016 14:19				
Client ID:		Run ID: FID-12_287480		SeqNo: 3949774		PrepDate: 22-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	231.1	50	250	0	92.4	75 - 125	235	1.65	20	
>nC12 to nC28	209.9	50	250	0	84.0	75 - 125	199.9	4.85	20	
Surr: 2-Fluorobiphenyl	18.35	0	25	0	73.4	70 - 130	18.13	1.23	20	
Surr: Trifluoromethyl benzene	22.33	0	25	0	89.3	70 - 130	21.81	2.39	20	

MS		Sample ID: HS16121088-01MS		Units: mg/Kg		Analysis Date: 26-Dec-2016 15:28				
Client ID: TMW-1-1216		Run ID: FID-12_287480		SeqNo: 3949776		PrepDate: 22-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	436.1	82	410.5	0	106	75 - 125				
>nC12 to nC28	372.6	82	410.5	0	90.8	75 - 125				
Surr: 2-Fluorobiphenyl	35.36	0	41.05	0	86.1	70 - 130				
Surr: Trifluoromethyl benzene	40.59	0	41.05	0	98.9	70 - 130				

The following samples were analyzed in this batch: HS16121088-01 HS16121088-02 HS16121088-03 HS16121088-04
 HS16121088-05 HS16121088-06 HS16121088-07 HS16121088-08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111039	Instrument: FID-11	Method: TX1005
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MBLK	Sample ID: MBLK-111039	Units: mg/Kg	Analysis Date: 27-Dec-2016 16:41							
Client ID:	Run ID: FID-11_287251	SeqNo: 3945028	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	< 10	50								
>nC12 to nC28	< 10	50								
>nC28 to nC35	< 10	50								
Total Petroleum Hydrocarbon	< 10	50								
Surr: 2-Fluorobiphenyl	25.97	0	25	0	104	70 - 130				
Surr: Trifluoromethyl benzene	22.35	0	25	0	89.4	70 - 130				

LCS	Sample ID: LCS-111039	Units: mg/Kg	Analysis Date: 27-Dec-2016 17:10							
Client ID:	Run ID: FID-11_287251	SeqNo: 3945029	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	261.1	50	250	0	104	75 - 125				
>nC12 to nC28	253	50	250	0	101	75 - 125				
Surr: 2-Fluorobiphenyl	25.77	0	25	0	103	70 - 130				
Surr: Trifluoromethyl benzene	21.71	0	25	0	86.8	70 - 130				

LCSD	Sample ID: LCSD-111039	Units: mg/Kg	Analysis Date: 27-Dec-2016 17:39							
Client ID:	Run ID: FID-11_287251	SeqNo: 3945030	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	262.6	50	250	0	105	75 - 125	261.1	0.592	20	
>nC12 to nC28	250.6	50	250	0	100	75 - 125	253	0.959	20	
Surr: 2-Fluorobiphenyl	27.35	0	25	0	109	70 - 130	25.77	5.94	20	
Surr: Trifluoromethyl benzene	22	0	25	0	88.0	70 - 130	21.71	1.32	20	

MS	Sample ID: HS16120984-01MS	Units: mg/Kg	Analysis Date: 27-Dec-2016 18:37							
Client ID:	Run ID: FID-11_287251	SeqNo: 3945032	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
nC6 to nC12	299.1	49	247	0	121	75 - 125				
>nC12 to nC28	376.5	49	247	171.9	82.8	75 - 125				
Surr: 2-Fluorobiphenyl	29.88	0	24.7	0	121	70 - 130				
Surr: Trifluoromethyl benzene	24.19	0	24.7	0	97.9	70 - 130				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111039 **Instrument:** FID-11 **Method:** TX1005

MSD Sample ID: **HS16120984-01MSD** Units: **mg/Kg** Analysis Date: **27-Dec-2016 19:06**
 Client ID: Run ID: **FID-11_287251** SeqNo: **3945033** PrepDate: **27-Dec-2016** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

nC6 to nC12	287.4	48	241.3	0	119	75 - 125	299.1	3.99	20
>nC12 to nC28	368.6	48	241.3	171.9	81.5	75 - 125	376.5	2.12	20
Surr: 2-Fluorobiphenyl	29.67	0	24.13	0	123	70 - 130	29.88	0.689	20
Surr: Trifluoromethyl benzene	23.72	0	24.13	0	98.3	70 - 130	24.19	1.95	20

The following samples were analyzed in this batch: HS16121088-09 HS16121088-10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287176	Instrument: BTEX5	Method: SW8021B
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MBLK	Sample ID: BBLK-161222	Units: ug/Kg		Analysis Date: 22-Dec-2016 11:43						
Client ID:	Run ID: BTEX5_287176	SeqNo: 3943507		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 0.40	1.0								
m,p-Xylene	< 0.40	2.0								
o-Xylene	< 0.20	1.0								
Toluene	< 0.50	1.0								
Ethylbenzene	< 0.50	1.0								
Xylenes, Total	< 0.20	1.0								
<i>Surr: 4-Bromofluorobenzene</i>	39.3	1.0	30	0	131	75 - 131				
<i>Surr: Trifluorotoluene</i>	35.8	1.0	30	0	119	73 - 130				

LCS	Sample ID: BLCS-161222	Units: ug/Kg		Analysis Date: 22-Dec-2016 11:20						
Client ID:	Run ID: BTEX5_287176	SeqNo: 3943506		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23	1.0	20	0	115	74 - 129				
m,p-Xylene	47.67	2.0	40	0	119	74 - 127				
o-Xylene	24.79	1.0	20	0	124	74 - 127				
Toluene	23.26	1.0	20	0	116	75 - 128				
Ethylbenzene	24.35	1.0	20	0	122	73 - 127				
Xylenes, Total	72.46	1.0	60	0	121	74 - 127				
<i>Surr: 4-Bromofluorobenzene</i>	35.67	1.0	30	0	119	75 - 131				
<i>Surr: Trifluorotoluene</i>	36.74	1.0	30	0	122	73 - 130				

MS	Sample ID: HS16121088-02MS	Units: ug/Kg		Analysis Date: 22-Dec-2016 13:35						
Client ID: TMW-2-1216	Run ID: BTEX5_287176	SeqNo: 3943510		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.4	1.0	20	0	102	74 - 129				
m,p-Xylene	41.63	2.0	40	0	104	74 - 127				
o-Xylene	20.73	1.0	20	0	104	74 - 127				
Toluene	20.87	1.0	20	0	104	75 - 128				
Ethylbenzene	21.18	1.0	20	0	106	73 - 127				
Xylenes, Total	62.36	1.0	60	0	104	74 - 127				
<i>Surr: 4-Bromofluorobenzene</i>	38.06	1.0	30	0	127	75 - 131				
<i>Surr: Trifluorotoluene</i>	37.41	1.0	30	0	125	73 - 130				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287176		Instrument: BTEX5		Method: SW8021B					
MSD	Sample ID: HS16121088-02MSD	Units: ug/Kg			Analysis Date: 22-Dec-2016 13:58				
Client ID: TMW-2-1216	Run ID: BTEX5_287176	SeqNo: 3943511		PrepDate:			DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	21.42	1.0	20	0	107	74 - 129	20.4	4.88	30
m,p-Xylene	44.21	2.0	40	0	111	74 - 127	41.63	6.02	30
o-Xylene	22.29	1.0	20	0	111	74 - 127	20.73	7.22	30
Toluene	21.45	1.0	20	0	107	75 - 128	20.87	2.76	30
Ethylbenzene	22.51	1.0	20	0	113	73 - 127	21.18	6.06	30
Xylenes, Total	66.5	1.0	60	0	111	74 - 127	62.36	6.42	30
Surr: 4-Bromofluorobenzene	38.46	1.0	30	0	128	75 - 131	38.06	1.02	30
Surr: Trifluorotoluene	38.78	1.0	30	0	129	73 - 130	37.41	3.62	30

The following samples were analyzed in this batch:

HS16121088-01	HS16121088-02	HS16121088-03	HS16121088-04
HS16121088-05	HS16121088-06	HS16121088-07	HS16121088-08
HS16121088-09	HS16121088-10		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111040	Instrument: ICPMS04	Method: SW6020
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MBLK	Sample ID: MBLK-111040	Units: mg/Kg	Analysis Date: 27-Dec-2016 19:08							
Client ID:	Run ID: ICPMS04_287168	SeqNo: 3944894	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	< 0.100	0.500								
Barium	< 0.0800	0.500								
Cadmium	< 0.0500	0.500								
Chromium	< 0.0900	0.500								
Lead	< 0.0500	0.500								
Selenium	< 0.180	0.500								
Silver	< 0.0800	0.500								

LCS	Sample ID: LCS-111040	Units: mg/Kg	Analysis Date: 27-Dec-2016 19:12							
Client ID:	Run ID: ICPMS04_287168	SeqNo: 3944895	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	8.82	0.500	10	0	88.2	80 - 120				
Barium	9.269	0.500	10	0	92.7	80 - 120				
Cadmium	9.146	0.500	10	0	91.5	80 - 120				
Chromium	8.954	0.500	10	0	89.5	80 - 120				
Lead	9.504	0.500	10	0	95.0	80 - 120				
Selenium	8.696	0.500	10	0	87.0	80 - 120				
Silver	8.916	0.500	10	0	89.2	80 - 120				

MS	Sample ID: HS16121088-01MS	Units: mg/Kg	Analysis Date: 27-Dec-2016 19:26							
Client ID: TMW-1-1216	Run ID: ICPMS04_287168	SeqNo: 3944898	PrepDate: 27-Dec-2016 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	10.82	0.476	9.526	2.704	85.2	75 - 125				
Barium	17.62	0.476	9.526	6.288	119	75 - 125				
Cadmium	8.333	0.476	9.526	0.006643	87.4	75 - 125				
Chromium	13.96	0.476	9.526	2.242	123	75 - 125				
Lead	10.77	0.476	9.526	2.037	91.6	75 - 125				
Selenium	8.533	0.476	9.526	0.5375	83.9	75 - 125				
Silver	7.919	0.476	9.526	0.04593	82.7	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111040		Instrument: ICPMS04		Method: SW6020						
MSD		Sample ID: HS16121088-01MSD		Units: mg/Kg		Analysis Date: 27-Dec-2016 19:30				
Client ID: TMW-1-1216		Run ID: ICPMS04_287168		SeqNo: 3944899		PrepDate: 27-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.886	0.478	9.553	2.704	75.2	75 - 125	10.82	9.02	20	
Barium	16.08	0.478	9.553	6.288	102	75 - 125	17.62	9.15	20	
Cadmium	7.764	0.478	9.553	0.006643	81.2	75 - 125	8.333	7.08	20	
Chromium	12.79	0.478	9.553	2.242	110	75 - 125	13.96	8.76	20	
Lead	9.732	0.478	9.553	2.037	80.5	75 - 125	10.77	10.1	20	
Selenium	7.888	0.478	9.553	0.5375	76.9	75 - 125	8.533	7.86	20	
Silver	7.299	0.478	9.553	0.04593	75.9	75 - 125	7.919	8.15	20	
PDS		Sample ID: HS16121088-01PDS		Units: mg/Kg		Analysis Date: 27-Dec-2016 19:35				
Client ID: TMW-1-1216		Run ID: ICPMS04_287168		SeqNo: 3944900		PrepDate: 27-Dec-2016		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.26	0.474	9.489	2.704	79.6	75 - 125				
Barium	14.26	0.474	9.489	6.288	84.0	75 - 125				
Cadmium	7.741	0.474	9.489	0.006643	81.5	75 - 125				
Chromium	9.848	0.474	9.489	2.242	80.2	75 - 125				
Lead	9.631	0.474	9.489	2.037	80.0	75 - 125				
Selenium	8.023	0.474	9.489	0.5375	78.9	75 - 125				
Silver	7.451	0.474	9.489	0.04593	78.0	75 - 125				
SD		Sample ID: HS16121088-01SD		Units: mg/Kg		Analysis Date: 27-Dec-2016 19:21				
Client ID: TMW-1-1216		Run ID: ICPMS04_287168		SeqNo: 3944897		PrepDate: 27-Dec-2016		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	2.669	2.37					2.704	1.29	10	
Barium	6.459	2.37					6.288	2.71	10	
Cadmium	< 0.237	2.37					0.006643	0	10	
Chromium	2.332	2.37					2.242	0	10	J
Lead	2.042	2.37					2.037	0	10	J
Selenium	< 0.854	2.37					0.5375	0	10	
Silver	< 0.380	2.37					0.04593	0	10	

The following samples were analyzed in this batch:	HS16121088-01	HS16121088-02	HS16121088-03	HS16121088-04
	HS16121088-05	HS16121088-06	HS16121088-07	HS16121088-08
	HS16121088-09	HS16121088-10		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: 111054		Instrument: HG03		Method: SW7471A					
MBLK	Sample ID: MBLK-111054	Units: ug/Kg		Analysis Date: 27-Dec-2016 15:08					
Client ID:	Run ID: HG03_287222	SeqNo: 3944369		PrepDate: 27-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 0.9333 3.32 J

LCS	Sample ID: LCS-111054	Units: ug/Kg		Analysis Date: 27-Dec-2016 15:10					
Client ID:	Run ID: HG03_287222	SeqNo: 3944370		PrepDate: 27-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 350 3.32 333.3 0 105 85 - 115

MS	Sample ID: HS16121145-05MS	Units: ug/Kg		Analysis Date: 27-Dec-2016 15:13					
Client ID:	Run ID: HG03_287222	SeqNo: 3944372		PrepDate: 27-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 351.3 3.33 333.9 13.32 101 85 - 115

MSD	Sample ID: HS16121145-05MSD	Units: ug/Kg		Analysis Date: 27-Dec-2016 15:15					
Client ID:	Run ID: HG03_287222	SeqNo: 3944373		PrepDate: 27-Dec-2016		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 352.7 3.36 337.2 13.32 101 85 - 115 351.3 0.384 20

The following samples were analyzed in this batch:	HS16121088-01	HS16121088-02	HS16121088-03	HS16121088-04
	HS16121088-05	HS16121088-06	HS16121088-07	HS16121088-08
	HS16121088-09	HS16121088-10		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1		Method: SW8260						
MBLK	Sample ID: VBLKW-161228	Units: ug/L			Analysis Date: 28-Dec-2016 11:56					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947177	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	< 0.20	1.0								
1,1,2,2-Tetrachloroethane	< 0.50	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	< 1.0	1.0								
1,1,2-Trichloroethane	< 0.30	1.0								
1,1-Dichloroethane	< 0.20	1.0								
1,1-Dichloroethene	< 0.20	1.0								
1,2,4-Trichlorobenzene	< 0.50	1.0								
1,2-Dibromo-3-chloropropane	< 1.0	1.0								
1,2-Dibromoethane	< 0.20	1.0								
1,2-Dichlorobenzene	< 0.50	1.0								
1,2-Dichloroethane	< 0.20	1.0								
1,2-Dichloropropane	< 0.50	1.0								
1,3-Dichlorobenzene	< 0.40	1.0								
1,4-Dichlorobenzene	< 0.40	1.0								
2-Butanone	< 0.50	2.0								
2-Hexanone	< 1.0	2.0								
4-Methyl-2-pentanone	< 0.70	2.0								
Acetone	< 2.0	2.0								
Benzene	< 0.20	1.0								
Bromodichloromethane	< 0.20	1.0								
Bromoform	< 0.40	1.0								
Bromomethane	< 0.40	1.0								
Carbon disulfide	< 0.60	2.0								
Carbon tetrachloride	< 0.50	1.0								
Chlorobenzene	< 0.30	1.0								
Chloroethane	< 0.30	1.0								
Chloroform	< 0.20	1.0								
Chloromethane	< 0.20	1.0								
cis-1,2-Dichloroethene	< 0.20	1.0								
cis-1,3-Dichloropropene	< 0.10	1.0								
Cyclohexane	< 0.30	1.0								
Dibromochloromethane	< 0.30	1.0								
Dichlorodifluoromethane	< 0.30	1.0								
Dichloromethane	< 1.0	2.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1		Method: SW8260						
MBLK	Sample ID: VBLKW-161228	Units: ug/L			Analysis Date: 28-Dec-2016 11:56					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947177		PrepDate:			DF: 1			
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 0.30	1.0								
Isopropylbenzene	< 0.30	1.0								
m,p-Xylene	< 0.50	2.0								
Methyl acetate	< 1.0	1.0								
Methyl tert-butyl ether	< 0.20	1.0								
Methylcyclohexane	< 0.30	1.0								
o-Xylene	< 0.30	1.0								
Styrene	< 0.30	1.0								
Tetrachloroethene	< 0.30	1.0								
Toluene	< 0.20	1.0								
trans-1,2-Dichloroethene	< 0.20	1.0								
trans-1,3-Dichloropropene	< 0.20	1.0								
Trichloroethene	< 0.20	1.0								
Trichlorofluoromethane	< 0.30	1.0								
Vinyl chloride	< 0.20	1.0								
Xylenes, Total	< 0.30	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>45.91</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>91.8</i>	<i>71 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.64</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.3</i>	<i>70 - 125</i>				
<i>Surr: Dibromofluoromethane</i>	<i>47.63</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.3</i>	<i>74 - 125</i>				
<i>Surr: Toluene-d8</i>	<i>49.82</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>75 - 125</i>				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1			Method: SW8260					
LCS	Sample ID: VLCSW-161228	Units: ug/L			Analysis Date: 28-Dec-2016 10:38					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947176			PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.45	1.0	50	0	101	75 - 130				
1,1,2,2-Tetrachloroethane	47.35	1.0	50	0	94.7	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	47.76	1.0	50	0	95.5	70 - 130				
1,1,2-Trichloroethane	50.13	1.0	50	0	100	80 - 120				
1,1-Dichloroethane	49.52	1.0	50	0	99.0	76 - 120				
1,1-Dichloroethene	50.14	1.0	50	0	100	75 - 130				
1,2,4-Trichlorobenzene	56.51	1.0	50	0	113	75 - 126				
1,2-Dibromo-3-chloropropane	47.97	1.0	50	0	95.9	65 - 125				
1,2-Dibromoethane	50.89	1.0	50	0	102	80 - 121				
1,2-Dichlorobenzene	50.63	1.0	50	0	101	80 - 120				
1,2-Dichloroethane	52.42	1.0	50	0	105	76 - 120				
1,2-Dichloropropane	48.54	1.0	50	0	97.1	80 - 120				
1,3-Dichlorobenzene	52.02	1.0	50	0	104	80 - 120				
1,4-Dichlorobenzene	49.72	1.0	50	0	99.4	80 - 120				
2-Butanone	84.57	2.0	100	0	84.6	60 - 140				
2-Hexanone	94.08	2.0	100	0	94.1	60 - 131				
4-Methyl-2-pentanone	99.73	2.0	100	0	99.7	60 - 135				
Acetone	90.01	2.0	100	0	90.0	60 - 140				
Benzene	52.71	1.0	50	0	105	75 - 122				
Bromodichloromethane	52.66	1.0	50	0	105	75 - 125				
Bromoform	49.77	1.0	50	0	99.5	70 - 130				
Bromomethane	54.31	1.0	50	0	109	60 - 140				
Carbon disulfide	96.42	2.0	100	0	96.4	70 - 130				
Carbon tetrachloride	48.75	1.0	50	0	97.5	75 - 125				
Chlorobenzene	50.04	1.0	50	0	100	80 - 120				
Chloroethane	48.37	1.0	50	0	96.7	70 - 130				
Chloroform	50	1.0	50	0	100	70 - 130				
Chloromethane	49.85	1.0	50	0	99.7	65 - 130				
cis-1,2-Dichloroethene	49.26	1.0	50	0	98.5	75 - 125				
cis-1,3-Dichloropropene	50.27	1.0	50	0	101	79 - 125				
Cyclohexane	44.52	1.0	50	0	89.0	70 - 130				
Dibromochloromethane	53	1.0	50	0	106	70 - 130				
Dichlorodifluoromethane	49.16	1.0	50	0	98.3	60 - 140				
Dichloromethane	48.08	2.0	50	0	96.2	65 - 133				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1			Method: SW8260					
LCS	Sample ID: VLCSW-161228	Units: ug/L			Analysis Date: 28-Dec-2016 10:38					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947176			PrepDate:			DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	51.09	1.0	50	0	102	80 - 120				
Isopropylbenzene	49.27	1.0	50	0	98.5	75 - 130				
m,p-Xylene	102.5	2.0	100	0	103	80 - 120				
Methyl acetate	47.17	1.0	50	0	94.3	76 - 122				
Methyl tert-butyl ether	46.13	1.0	50	0	92.3	70 - 130				
Methylcyclohexane	43.24	1.0	50	0	86.5	61 - 158				
o-Xylene	49.82	1.0	50	0	99.6	80 - 120				
Styrene	51.79	1.0	50	0	104	78 - 122				
Tetrachloroethene	49.98	1.0	50	0	100.0	75 - 130				
Toluene	49.7	1.0	50	0	99.4	75 - 121				
trans-1,2-Dichloroethene	49.49	1.0	50	0	99.0	75 - 125				
trans-1,3-Dichloropropene	53.28	1.0	50	0	107	76 - 125				
Trichloroethene	51.09	1.0	50	0	102	71 - 125				
Trichlorofluoromethane	51.61	1.0	50	0	103	67 - 132				
Vinyl chloride	49.38	1.0	50	0	98.8	70 - 135				
Xylenes, Total	152.4	1.0	150	0	102	79 - 124				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>71 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>70 - 125</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.23</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.5</i>	<i>74 - 125</i>				
<i>Surr: Toluene-d8</i>	<i>49.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>75 - 125</i>				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1			Method: SW8260					
MS	Sample ID: HS16121264-02MS	Units: ug/L			Analysis Date: 28-Dec-2016 14:07					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947179			PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.36	1.0	50	0	90.7	75 - 130				
1,1,2,2-Tetrachloroethane	47.63	1.0	50	0	95.3	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	46.96	1.0	50	0	93.9	70 - 130				
1,1,2-Trichloroethane	46.67	1.0	50	0	93.3	80 - 120				
1,1-Dichloroethane	44.52	1.0	50	0	89.0	76 - 120				
1,1-Dichloroethene	43.08	1.0	50	0	86.2	75 - 130				
1,2,4-Trichlorobenzene	49.9	1.0	50	0	99.8	75 - 126				
1,2-Dibromo-3-chloropropane	48.89	1.0	50	0	97.8	65 - 125				
1,2-Dibromoethane	47.57	1.0	50	0	95.1	80 - 121				
1,2-Dichlorobenzene	46.41	1.0	50	0	92.8	80 - 120				
1,2-Dichloroethane	48.94	1.0	50	0	97.9	76 - 120				
1,2-Dichloropropane	47.88	1.0	50	0	95.8	80 - 120				
1,3-Dichlorobenzene	46.45	1.0	50	0	92.9	80 - 120				
1,4-Dichlorobenzene	46.04	1.0	50	0	92.1	80 - 120				
2-Butanone	89.72	2.0	100	2.275	87.4	60 - 140				
2-Hexanone	104.3	2.0	100	0	104	60 - 131				
4-Methyl-2-pentanone	110.2	2.0	100	0	110	60 - 135				
Acetone	336.6	2.0	100	231.1	106	60 - 140				
Benzene	138.4	1.0	50	111.6	53.5	75 - 122				S
Bromodichloromethane	61.39	1.0	50	12.97	96.8	75 - 125				
Bromoform	49.73	1.0	50	0.6784	98.1	70 - 130				
Bromomethane	39.56	1.0	50	0	79.1	60 - 140				
Carbon disulfide	96.74	2.0	100	0	96.7	70 - 130				
Carbon tetrachloride	44.5	1.0	50	0	89.0	79 - 120				
Chlorobenzene	46.99	1.0	50	0	94.0	80 - 120				
Chloroethane	40.42	1.0	50	0	80.8	70 - 130				
Chloroform	64.05	1.0	50	20.01	88.1	70 - 130				
Chloromethane	29.05	1.0	50	0	58.1	65 - 130				S
cis-1,2-Dichloroethene	46.95	1.0	50	0	93.9	75 - 125				
cis-1,3-Dichloropropene	49.75	1.0	50	0	99.5	79 - 125				
Cyclohexane	44.09	1.0	50	0	88.2	70 - 130				
Dibromochloromethane	55.69	1.0	50	5.52	100	70 - 130				
Dichlorodifluoromethane	19.69	1.0	50	0	39.4	60 - 140				S
Dichloromethane	43.18	2.0	50	0	86.4	65 - 133				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1		Method: SW8260						
MS	Sample ID: HS16121264-02MS	Units: ug/L			Analysis Date: 28-Dec-2016 14:07					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947179	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	47.02	1.0	50	1.467	91.1	80 - 120				
Isopropylbenzene	45.41	1.0	50	0	90.8	75 - 130				
m,p-Xylene	95.54	2.0	100	4.253	91.3	80 - 120				
Methyl acetate	38.55	1.0	50	0	77.1	76 - 122				
Methyl tert-butyl ether	43.35	1.0	50	0	86.7	70 - 130				
Methylcyclohexane	48.9	1.0	50	0	97.8	61 - 158				
o-Xylene	49.25	1.0	50	2.253	94.0	80 - 120				
Styrene	49.32	1.0	50	0.8629	96.9	78 - 122				
Tetrachloroethene	46.99	1.0	50	0	94.0	75 - 130				
Toluene	57.09	1.0	50	13.68	86.8	75 - 121				
trans-1,2-Dichloroethene	45.12	1.0	50	0	90.2	75 - 125				
trans-1,3-Dichloropropene	49.77	1.0	50	0	99.5	76 - 125				
Trichloroethene	47.79	1.0	50	0	95.6	71 - 125				
Trichlorofluoromethane	45.46	1.0	50	0	90.9	67 - 132				
Vinyl chloride	33.56	1.0	50	0	67.1	70 - 135				S
Xylenes, Total	144.8	1.0	150	6.506	92.2	80 - 124				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.88</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.8</i>	<i>71 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.48</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 125</i>				
<i>Surr: Dibromofluoromethane</i>	<i>46.99</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.0</i>	<i>74 - 125</i>				
<i>Surr: Toluene-d8</i>	<i>49.49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>75 - 125</i>				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361		Instrument: VOA1			Method: SW8260					
MSD	Sample ID: HS16121264-02MSD	Units: ug/L			Analysis Date: 28-Dec-2016 14:33					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947180			PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.54	1.0	50	0	93.1	75 - 130	45.36	2.58	20	
1,1,2,2-Tetrachloroethane	47.35	1.0	50	0	94.7	74 - 123	47.63	0.602	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	48.48	1.0	50	0	97.0	70 - 130	46.96	3.19	20	
1,1,2-Trichloroethane	46.74	1.0	50	0	93.5	80 - 120	46.67	0.144	20	
1,1-Dichloroethane	45.48	1.0	50	0	91.0	76 - 120	44.52	2.13	20	
1,1-Dichloroethene	43.85	1.0	50	0	87.7	75 - 130	43.08	1.78	20	
1,2,4-Trichlorobenzene	52.38	1.0	50	0	105	75 - 126	49.9	4.85	20	
1,2-Dibromo-3-chloropropane	48.25	1.0	50	0	96.5	65 - 125	48.89	1.33	20	
1,2-Dibromoethane	48.51	1.0	50	0	97.0	80 - 121	47.57	1.98	20	
1,2-Dichlorobenzene	47.2	1.0	50	0	94.4	80 - 120	46.41	1.69	20	
1,2-Dichloroethane	48.9	1.0	50	0	97.8	76 - 120	48.94	0.0799	20	
1,2-Dichloropropane	47.03	1.0	50	0	94.1	80 - 120	47.88	1.78	20	
1,3-Dichlorobenzene	47.69	1.0	50	0	95.4	80 - 120	46.45	2.62	20	
1,4-Dichlorobenzene	46.36	1.0	50	0	92.7	80 - 120	46.04	0.708	20	
2-Butanone	91.19	2.0	100	2.275	88.9	60 - 140	89.72	1.63	20	
2-Hexanone	104.3	2.0	100	0	104	60 - 131	104.3	0.00115	20	
4-Methyl-2-pentanone	104.8	2.0	100	0	105	60 - 135	110.2	5.04	20	
Acetone	326.6	2.0	100	231.1	95.5	60 - 140	336.6	3.04	20	
Benzene	146.9	1.0	50	111.6	70.6	75 - 122	138.4	6	20	S
Bromodichloromethane	60.73	1.0	50	12.97	95.5	75 - 125	61.39	1.09	20	
Bromoform	47.54	1.0	50	0.6784	93.7	70 - 130	49.73	4.51	20	
Bromomethane	41.1	1.0	50	0	82.2	60 - 140	39.56	3.82	20	
Carbon disulfide	97.87	2.0	100	0	97.9	70 - 130	96.74	1.16	20	
Carbon tetrachloride	45.5	1.0	50	0	91.0	75 - 125	44.5	2.22	20	
Chlorobenzene	47.44	1.0	50	0	94.9	80 - 120	46.99	0.945	20	
Chloroethane	41.89	1.0	50	0	83.8	70 - 130	40.42	3.58	20	
Chloroform	63.86	1.0	50	20.01	87.7	70 - 130	64.05	0.287	20	
Chloromethane	30.07	1.0	50	0	60.1	65 - 130	29.05	3.44	20	S
cis-1,2-Dichloroethene	46.31	1.0	50	0	92.6	75 - 125	46.95	1.38	20	
cis-1,3-Dichloropropene	48.53	1.0	50	0	97.1	79 - 125	49.75	2.49	20	
Cyclohexane	47.29	1.0	50	0	94.6	70 - 130	44.09	6.99	20	
Dibromochloromethane	56.19	1.0	50	5.52	101	70 - 130	55.69	0.898	20	
Dichlorodifluoromethane	19.82	1.0	50	0	39.6	60 - 140	19.69	0.67	20	S
Dichloromethane	43.05	2.0	50	0	86.1	65 - 133	43.18	0.295	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287361 **Instrument:** VOA1 **Method:** SW8260

MSD	Sample ID: HS16121264-02MSD	Units: ug/L			Analysis Date: 28-Dec-2016 14:33					
Client ID:	Run ID: VOA1_287361	SeqNo: 3947180	PrepDate:	DF: 1						
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	46.66	1.0	50	1.467	90.4	80 - 120	47.02	0.763	20	
Isopropylbenzene	47.99	1.0	50	0	96.0	75 - 130	45.41	5.53	20	
m,p-Xylene	100.3	2.0	100	4.253	96.0	80 - 120	95.54	4.86	20	
Methyl acetate	39.01	1.0	50	0	78.0	76 - 122	38.55	1.19	20	
Methyl tert-butyl ether	43.55	1.0	50	0	87.1	70 - 130	43.35	0.458	20	
Methylcyclohexane	50.53	1.0	50	0	101	61 - 158	48.9	3.28	20	
o-Xylene	48.97	1.0	50	2.253	93.4	80 - 120	49.25	0.557	20	
Styrene	49.39	1.0	50	0.8629	97.1	78 - 122	49.32	0.149	20	
Tetrachloroethene	48.03	1.0	50	0	96.1	75 - 130	46.99	2.18	20	
Toluene	59.46	1.0	50	13.68	91.6	75 - 121	57.09	4.08	20	
trans-1,2-Dichloroethene	45.04	1.0	50	0	90.1	75 - 125	45.12	0.173	20	
trans-1,3-Dichloropropene	49.41	1.0	50	0	98.8	76 - 125	49.77	0.722	20	
Trichloroethene	46.67	1.0	50	0	93.3	71 - 125	47.79	2.37	20	
Trichlorofluoromethane	47.34	1.0	50	0	94.7	67 - 132	45.46	4.05	20	
Vinyl chloride	35.17	1.0	50	0	70.3	70 - 135	33.56	4.7	20	
Xylenes, Total	149.3	1.0	150	6.506	95.2	80 - 124	144.8	3.05	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.37</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.7</i>	<i>71 - 125</i>	<i>47.88</i>	<i>1.01</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.64</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 125</i>	<i>50.48</i>	<i>2.27</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>47.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.7</i>	<i>74 - 125</i>	<i>46.99</i>	<i>0.778</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>75 - 125</i>	<i>49.49</i>	<i>1.1</i>	<i>20</i>	

The following samples were analyzed in this batch: HS16121088-11 HS16121088-12 HS16121088-13 HS16121088-14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

QC BATCH REPORT

Batch ID: R287250 **Instrument:** Balance1 **Method:** SW3550

DUP Sample ID: **HS16121102-18DUP** Units: **wt%** Analysis Date: **27-Dec-2016 11:30**
 Client ID: Run ID: **Balance1_287250** SeqNo: **3945027** PrepDate: DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Percent Moisture 10.1 0.0100 9.94 1.6 20

The following samples were analyzed in this batch:

HS16121088-01	HS16121088-02	HS16121088-03	HS16121088-04
HS16121088-05	HS16121088-06	HS16121088-07	HS16121088-08
HS16121088-09	HS16121088-10		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Kleinfelder
Project: EMS BMT Facility
WorkOrder: HS16121088

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
UG/L	Micrograms per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-1	27-Mar-2017
California	2919 2016-2018	31-Jul-2018
Illinois	003872	09-May-2017
Kansas	E-10352 2016-2017	31-Jul-2017
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2016-2017	30-Jun-2017
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2016-122	31-Aug-2017
Texas	TX104704231-16-17	30-Apr-2017

Client: Kleinfelder
Project: EMS BMT Facility
Work Order: HS16121088

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16121088-01	TMW-1-1216	Login	12/21/2016 4:40:42 PM	SFE	VW-2
HS16121088-01	TMW-1-1216	Login	12/21/2016 4:40:42 PM	SFE	14D
HS16121088-01	TMW-1-1216	Login	12/21/2016 4:40:42 PM	SFE	LF-09
HS16121088-01	TMW-1-1216	Login	12/21/2016 4:40:42 PM	SFE	5035
HS16121088-02	TMW-2-1216	Login	12/21/2016 4:40:43 PM	SFE	VW-2
HS16121088-02	TMW-2-1216	Login	12/21/2016 4:40:43 PM	SFE	14D
HS16121088-02	TMW-2-1216	Login	12/21/2016 4:40:43 PM	SFE	LF-09
HS16121088-02	TMW-2-1216	Login	12/21/2016 4:40:43 PM	SFE	5035
HS16121088-03	TMW-3-1216	Login	12/21/2016 4:40:43 PM	SFE	VW-2
HS16121088-03	TMW-3-1216	Login	12/21/2016 4:40:43 PM	SFE	14D
HS16121088-03	TMW-3-1216	Login	12/21/2016 4:40:43 PM	SFE	LF-09
HS16121088-03	TMW-3-1216	Login	12/21/2016 4:40:43 PM	SFE	5035
HS16121088-04	TMW-4-1216	Login	12/21/2016 4:40:43 PM	SFE	VW-2
HS16121088-04	TMW-4-1216	Login	12/21/2016 4:40:43 PM	SFE	14D
HS16121088-04	TMW-4-1216	Login	12/21/2016 4:40:43 PM	SFE	LF-09
HS16121088-04	TMW-4-1216	Login	12/21/2016 4:40:43 PM	SFE	5035
HS16121088-05	SB-1-2	Login	12/21/2016 4:40:44 PM	SFE	VW-2
HS16121088-05	SB-1-2	Login	12/21/2016 4:40:44 PM	SFE	14D
HS16121088-05	SB-1-2	Login	12/21/2016 4:40:44 PM	SFE	LF-09
HS16121088-05	SB-1-2	Login	12/21/2016 4:40:44 PM	SFE	5035
HS16121088-06	SB-1-4	Login	12/21/2016 4:40:44 PM	SFE	VW-2
HS16121088-06	SB-1-4	Login	12/21/2016 4:40:44 PM	SFE	14D
HS16121088-06	SB-1-4	Login	12/21/2016 4:40:44 PM	SFE	LF-09
HS16121088-06	SB-1-4	Login	12/21/2016 4:40:44 PM	SFE	5035
HS16121088-07	SB-2-2	Login	12/21/2016 4:40:44 PM	SFE	VW-2
HS16121088-07	SB-2-2	Login	12/21/2016 4:40:44 PM	SFE	14D
HS16121088-07	SB-2-2	Login	12/21/2016 4:40:44 PM	SFE	LF-09
HS16121088-07	SB-2-2	Login	12/21/2016 4:40:44 PM	SFE	5035
HS16121088-08	SB-2-4	Login	12/21/2016 4:40:45 PM	SFE	VW-2
HS16121088-08	SB-2-4	Login	12/21/2016 4:40:45 PM	SFE	14D
HS16121088-08	SB-2-4	Login	12/21/2016 4:40:45 PM	SFE	LF-09
HS16121088-08	SB-2-4	Login	12/21/2016 4:40:45 PM	SFE	5035
HS16121088-09	SB-3-2	Login	12/21/2016 4:40:45 PM	SFE	VW-2
HS16121088-09	SB-3-2	Login	12/21/2016 4:40:45 PM	SFE	14D
HS16121088-09	SB-3-2	Login	12/21/2016 4:40:45 PM	SFE	LF-09
HS16121088-09	SB-3-2	Login	12/21/2016 4:40:45 PM	SFE	5035
HS16121088-10	SB-3-4	Login	12/21/2016 4:40:45 PM	SFE	VW-2
HS16121088-10	SB-3-4	Login	12/21/2016 4:40:45 PM	SFE	14D
HS16121088-10	SB-3-4	Login	12/21/2016 4:40:45 PM	SFE	LF-09
HS16121088-10	SB-3-4	Login	12/21/2016 4:40:45 PM	SFE	5035

Client: Kleinfelder
Project: EMS BMT Facility
Work Order: HS16121088

SAMPLE TRACKING

HS16121088-11	TMW-1-GW	Login	12/21/2016 4:40:46 PM	SFE	VW-3
HS16121088-11	TMW-1-GW	Login	12/21/2016 4:40:46 PM	SFE	TPH C1
HS16121088-12	TMW-2-GW	Login	12/21/2016 4:40:46 PM	SFE	VW-3
HS16121088-12	TMW-2-GW	Login	12/21/2016 4:40:46 PM	SFE	TPH C1
HS16121088-13	TMW-3-GW	Login	12/21/2016 4:40:46 PM	SFE	VW-3
HS16121088-13	TMW-3-GW	Login	12/21/2016 4:40:46 PM	SFE	TPH C1
HS16121088-14	TMW-4-GW	Login	12/21/2016 4:40:47 PM	SFE	VW-3
HS16121088-14	TMW-4-GW	Login	12/21/2016 4:40:47 PM	SFE	TPH C1
HS16121088-01	TMW-1-1216	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-02	TMW-2-1216	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-03	TMW-3-1216	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-04	TMW-4-1216	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-05	SB-1-2	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-06	SB-1-4	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-07	SB-2-2	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-08	SB-2-4	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-09	SB-3-2	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-10	SB-3-4	Out	12/27/2016 11:22:14 AM	PVL	METPREP
HS16121088-01	TMW-1-1216	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-02	TMW-2-1216	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-03	TMW-3-1216	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-04	TMW-4-1216	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-05	SB-1-2	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-06	SB-1-4	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-07	SB-2-2	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-08	SB-2-4	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-09	SB-3-2	Return	12/27/2016 11:22:27 AM	PVL	14D
HS16121088-10	SB-3-4	Return	12/27/2016 11:22:27 AM	PVL	14D

Sample Receipt Checklist

Client Name: Kleinfelder-Houston
 Work Order: HS16121088

Date/Time Received: **21-Dec-2016 12:19**
 Received by: **PS**

Checklist completed by: Cesar A. Lira 21-Dec-2016 Reviewed by: _____
 eSignature Date eSignature Date

Matrices: **Solid, water** Carrier name: **ALS.HS**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- TX1005 solids received in hermetically sealed vials? Yes No N/A
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.8c/2.1c - 1.4c/1.7c uc/c	IR#11
Cooler(s)/Kit(s):	42796/25770	
Date/Time sample(s) sent to storage:	12/21/2016 5:00pm	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input style="width: 100%;" type="text"/>	

Login Notes: 20ml Bulk and 1005 Vials only contain 1 Plug.

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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Chain of Custody Form

Page 1 of 2

COC ID: 153863

HS16121088

Kleinfelder
EMS BMT Facility



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:										
Purchase Order	EMS BMT Facility	Project Name	EMS BMT Facility	A	BTEX_S (BTEX 8835/6021)									
Work Order		Project Number		B	TX1005_S_REV3 (TPH Soil)									
Company Name	Kleinfelder	Bill To Company	Kleinfelder	C	RCRA 8 Soil (RCRA 8 Metals)									
Send Report To	Albano Benavides	Invoice Attn	Michelle Banda	D	MOIST_SW3550 (Moisture)									
Address	12000 Aerospace Ave.	Address	12000 Aerospace Ave.	E	8260_TCL4.3LL W (VOC 8260)									
	Suite 450		Suite 450	F	TX1005_W_Low (TPH Water)									
City/State/Zip	Houston, TX 77034	City/State/Zip	Houston, TX 77034	G										
Phone	(281) 922-4766	Phone	(281) 922-4766	H										
Fax		Fax		I										
e-Mail Address		e-Mail Address		J										

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TMW-1-1216	12/20/16	1005	Soil	TEDEA CONE	7	X	X	X	X	X						
2	TMW-2-1216		1045				X	X	X	X	X						
3	TMW-3-1216		1135				X	X	X	X	X						
4	TMW-4-1216		1215				X	X	X	X	X						
5	SB-1-2		1315				X	X	X	X	X						
6	SB-1-4		1320				X	X	X	X	X						
7	SB-2-2		1350				X	X	X	X	X						
8	SB-2-4		1355				X	X	X	X	X						
9	SB-3-2		1420				X	X	X	X	X						
0	SB-3-4		1425				X	X	X	X	X						

Sampler(s) Please Print & Sign
A. BENAVIDES

Relinquished by: [Signature] Date: 12/21/16 Time: 0905

Received by: [Signature] Date: 12/21/16 Time: 1219

Shipment Method: _____ Required Turnaround Time: (Check Box)
TAT 30 days Other: _____ Results Due Date: _____

Notes: (EMS BMT Facility)

Cooler ID: 82796 Cooler Temp: 4.11

QC Package: (Check One Box Below)
QC Level STD
Other: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions of the Chain of Custody Form.
3. The Chain of Custody Form is a trademark of ALS Environmental.
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Chain of Custody Form

Page 2 of 2

COC ID: **153864**

HS16121088

Kleinfelder
EMS BMT Facility



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	EMS BMT Facility	Project Name	EMS BMT Facility	A BTEX_S (BTEX 5035/6021)
Work Order		Project Number		B TX1005_S_REV3 (TPH Soil)
Company Name	Kleinfelder	Bill To Company	Kleinfelder	C RCRA 8 Soil (RCRA 8 Metals)
Send Report To	Albano Benavides	Invoice Attn	Michelle Banda	D MOIST_SW3550 (Moisture)
Address	12000 Aerospace Ave.	Address	12000 Aerospace Ave.	E 8260_TCL4.3LL W (VOC 8260)
	Suite 450		Suite 450	F TX1005_W_Low (TPH Water)
City/State/Zip	Houston, TX 77034	City/State/Zip	Houston, TX 77034	G
Phone	(281) 922-4766	Phone	(281) 922-4766	H
Fax		Fax		I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1-GW TMW-1-GW	12/20/16	1453	W	HCL	6	X				X	X					
2	SB-2-GW TMW-2-GW		1515				X				X	X					
3	TMW-3-GW		1537				X				X	X					
4	TMW-4-GW		1552				X				X	X					
5																	
6																	
7																	
8																	
9																	
0																	

Sampler(s) Please Print & Sign <i>A. Benavides</i>		Shipment Method		Required Turnaround Time: (Check Box) TAT <u>10</u> days Other: _____		Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: <u>12/21/16</u>	Time: <u>0905</u>	Received by: <i>[Signature]</i>		Notes: [EMS BMT Facility]		
Relinquished by: <i>[Signature]</i>	Date: <u>12/21/16</u>	Time: <u>12:19</u>	Checked by (Laboratory): <i>[Signature]</i>		Cooler ID <u>42796</u>	Cooler Temp. <u>41C</u>	QC Package: (Check One Box Below) QC Level <u>STD</u>
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				Other: <u>05770</u>			

- Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
- Unless otherwise agreed in a formal contract, services provided by ALS Environmental are governed by the terms and conditions of the contract.

APPENDIX C

SELECTED SITE PHOTOGRAPHS



**Photograph
Number 1**

View of Site
facing west.
Former shop
building is in the
background.



**Photograph
Number 2**

View of Site
facing north
toward former
shop building.



**Photograph
Number 3**

View of drilling activities at TMW-1 adjacent to the former fueling station. Facing northeast.