



APPROVED

July 18, 2016

Reference No. 088210-19

Mr. Zane Kurtz
Sr. Safety and Environmental Representative
5509 Champions Dr.
Midland, TX 79706
VIA E-Mail: zane_kurtz@eogresources.com

Dear Mr. Kurtz:

**Re: Assessment Summary Report
Short Fuse Federal No. 1 (API #30-025-29897)
1RP-3832-0
EOG Resources, Inc.
Site Location: Unit H, Sec. 11, T 18-S, R 32-E
(Lat 32.7636°, Long -103.7306°)
Lea County, New Mexico**

On behalf of EOG Resources Inc. (EOG), GHD Services, Inc. (GHD, formerly Conestoga-Rovers & Associates) is pleased to present this report for the above referenced site. Assessment activities were performed at the Short Fuse Federal No. 1 (hereafter referred to as the "Site"), from October 06, 2015 to June 29, 2016. The Site is located within Unit A, Section 36, Township 24 South, Range 33 East, in Lea County, New Mexico (Figure 1).

The Site is an active tank battery located approximately 35 miles west-northwest of Hobbs, New Mexico. The release occurred in an adjacent pasture to the south of the well pad. According to EOG personnel, a release of approximately five barrels (bbls) of produced water with some oil was released when an elbow on a heater-treater failed. The release occurred on August 16, 2015. During the clean-up of the release, an historical release was discovered that extended into the pasture. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit (RP) number 1RP-3832-0 was assigned.

During the clean-up of the release, United States Bureau of Land Management (BLM) personnel were present on Site and observed the activities. A Notice of Written Order was submitted by the BLM for the release dated August 20, 2015. The BLM provided an archeological clearance of the area in an email dated August 31, 2015.

1. Introduction

During the clean-up of the release, an historical release was discovered that extended into the pasture to the south of the Site. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit (RP) number 1RP-3832-0 was assigned. Approximately 100 cubic

yards (yd³) of impacted soil was removed and disposed of at the Lea Land LLC, east of Carlsbad, New Mexico (Lea Land).

During the clean-up of the release, United States BLM personnel observed the work being performed and issued a Notice of Written Order. The Notice of Written order was submitted by the BLM for the release dated August 20, 2015. The BLM provided an archeological clearance of the area in an email dated August 31, 2015.

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on information available from the NMOCD GIS Oil and Gas Map, the depth to groundwater in well L-06131 located approximately 2.7 miles east of the Site is 100 feet (ft) below ground surface (bgs). The New Mexico Tech Pit Portal site indicates a well at a depth of 65 ft bgs located approximately 4,000 feet to the northwest of the Site. Based on this, the depth to groundwater appears to be between 50 and 100 ft bgs.

There do not appear to be any well head protection areas and no surface water bodies within 200 to 1000 ft of the Site. Therefore, the preliminary total ranking score for the Site is 10 (see table below).

Based on this score, the applicable NMOCD Site-specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1000 mg/kg for total petroleum hydrocarbons (TPH), and 250 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (50-99 ft bgs)	10
Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (200-1000 ft)	0
Ranking Criteria Total Score	10*
*Because the ranking criteria total score is 10, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH ¹ , and 250 mg/kg for chlorides.	

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

Site assessment activities were initially performed by CH2M Hill of Dallas, Texas. Soil sampling was performed on September 21, 2015 and November 24, 2015 (Figure 2). Excavation activities were performed by SDR Enterprises, LLC of Hobbs, New Mexico. Soil samples were analyzed by TraceAnalysis, Inc. (TraceAnalysis) of Lubbock, Texas.

The analytical data obtained from the soil samples collected by CH2M Hill indicated that the horizontal extent of petroleum hydrocarbon and chloride concentrations had been delineated to below RRALs. However, the vertical extent of chloride concentrations along the north wall and excavation floor in an area denoted as "Location C" exceeded the Site RRAL (Figure 2).

Further soil sampling was performed by GHD on February 29, 2016 to assess the vertical extent of chloride concentrations in the soil along the north wall of "Location C". Two additional soil samples were collected using a hand auger at depths of 11 ft bgs and 13.5 ft bgs. The samples were submitted to Xenco Laboratories of Odessa, Texas for analysis of chloride by EPA Method 300.

Additional soil samples were also collected to confirm that the horizontal extent of COCs had been assessed. Soil samples were collected at 4 ft bgs in six locations within the areas of concern using a hand auger. The samples were submitted to Xenco Laboratories for analysis of chloride by EPA Method 300.

Laboratory analytical results from this event indicate that chloride concentrations in the samples that were submitted were below the RRAL for chloride with the exception of the sample ending in SP-07 with a concentration of 350 mg/kg. Sample SP-07 was collected from the northwest corner of "Location C" (Table 1).

An additional soil sample was collected by GHD from "Location C" after excavating to a depth of 12 feet bgs with a backhoe on May 20, 2016. The sample was also analyzed for chloride. The results of this sample indicated that the chloride concentration was above the site RRAL for chloride with a concentration of 340 mg/kg (Table 1).

In order to further assess the vertical extent of chloride impacts in the floor area of "Location C" near CH2M Hills sample collected in November of 2015, GHD collected a sample from 20 feet bgs on June 16, 2016. The sample was analyzed for chloride and returned a result with a chloride concentration of 500 mg/kg, exceeding the site RRAL (Table 1).

In an attempt to complete vertical assessment of chloride impacts in the in the area of the excavation floor a soil boring was advanced by EnviroDrill, Inc. of Albuquerque, NM on June 29, 2016. Soil samples were collected by GHD from 25 feet bgs, 30 feet bgs, and 35 feet bgs and analyzed for chloride (See Table 1). Laboratory results from this event indicate that chloride concentrations were below the Site RRAL for chloride (see Appendix A).

Based on analytical results from soil assessment performed by CH2M Hill and GHD, it appears that the vertical and horizontal extent of hydrocarbons and chloride have been assessed at the Site.

During the assessment activities, a total of approximately 680 tons (approximately 1020 cubic yards) of impacted soil were excavated and transported to Lea Land for landfill disposal. Waste manifests are included as Appendix B.

3. Summary and Recommendations

Based on the assessment activities, the horizontal and vertical extent of petroleum hydrocarbon and chloride concentrations appear to have been assessed to within the NMOCD RRALs. GHD recommends the following:

- Placement of a 20 mil polyethylene liner in the bottom of the excavation at a depth of 4 ft bgs,
- Backfilling of the excavation with clean fill material and wheel compacting to grade, and

- Fertilizing and reseedling of the disturbed area with a BLM-approved seed mix.

Following completion of the above activities EOG will request that no further action be required for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD



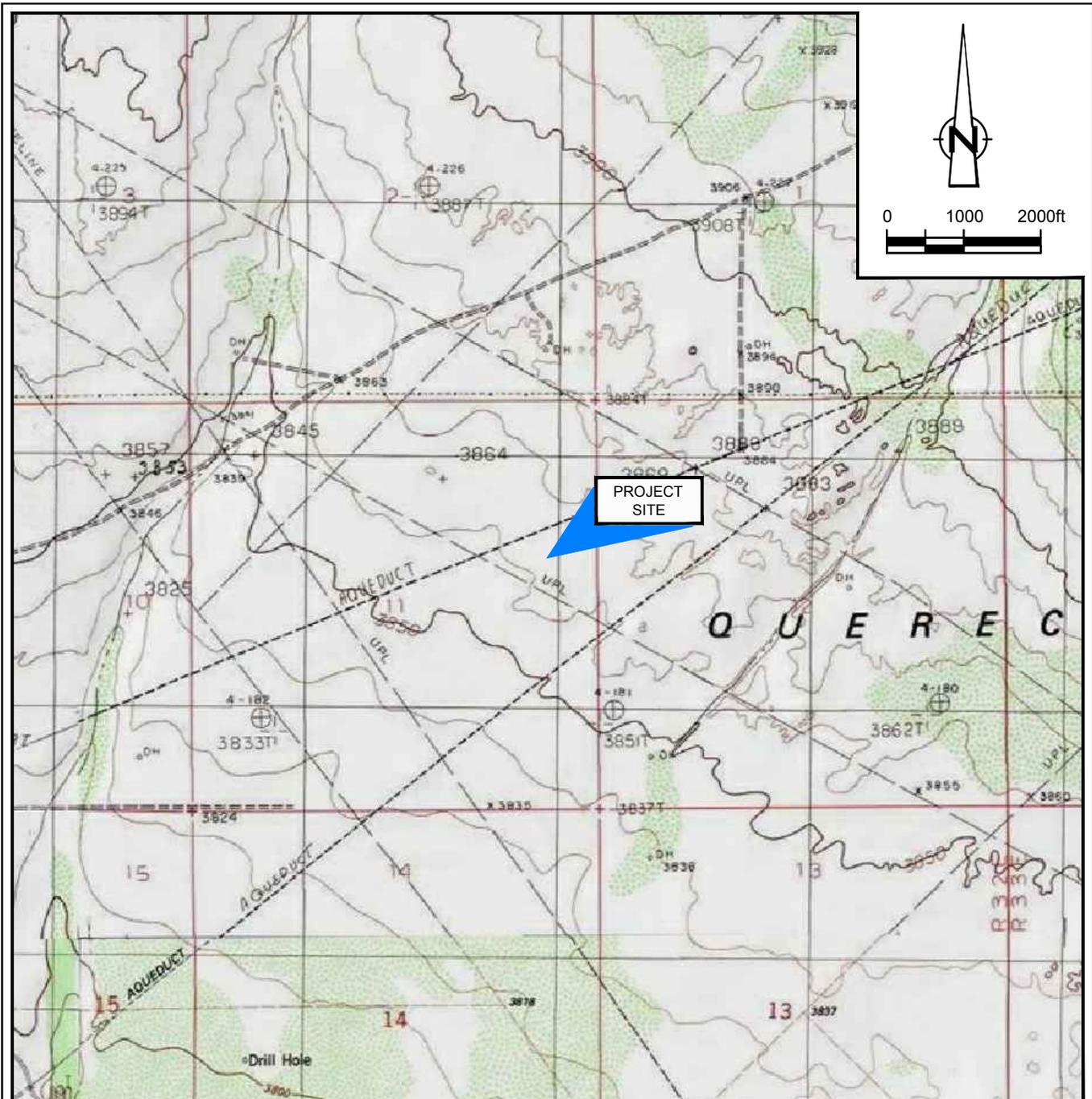
Bernard Bockisch
Senior Project Manager

BB/mc/02



Christine Mathews,
Staff Scientist

Figures

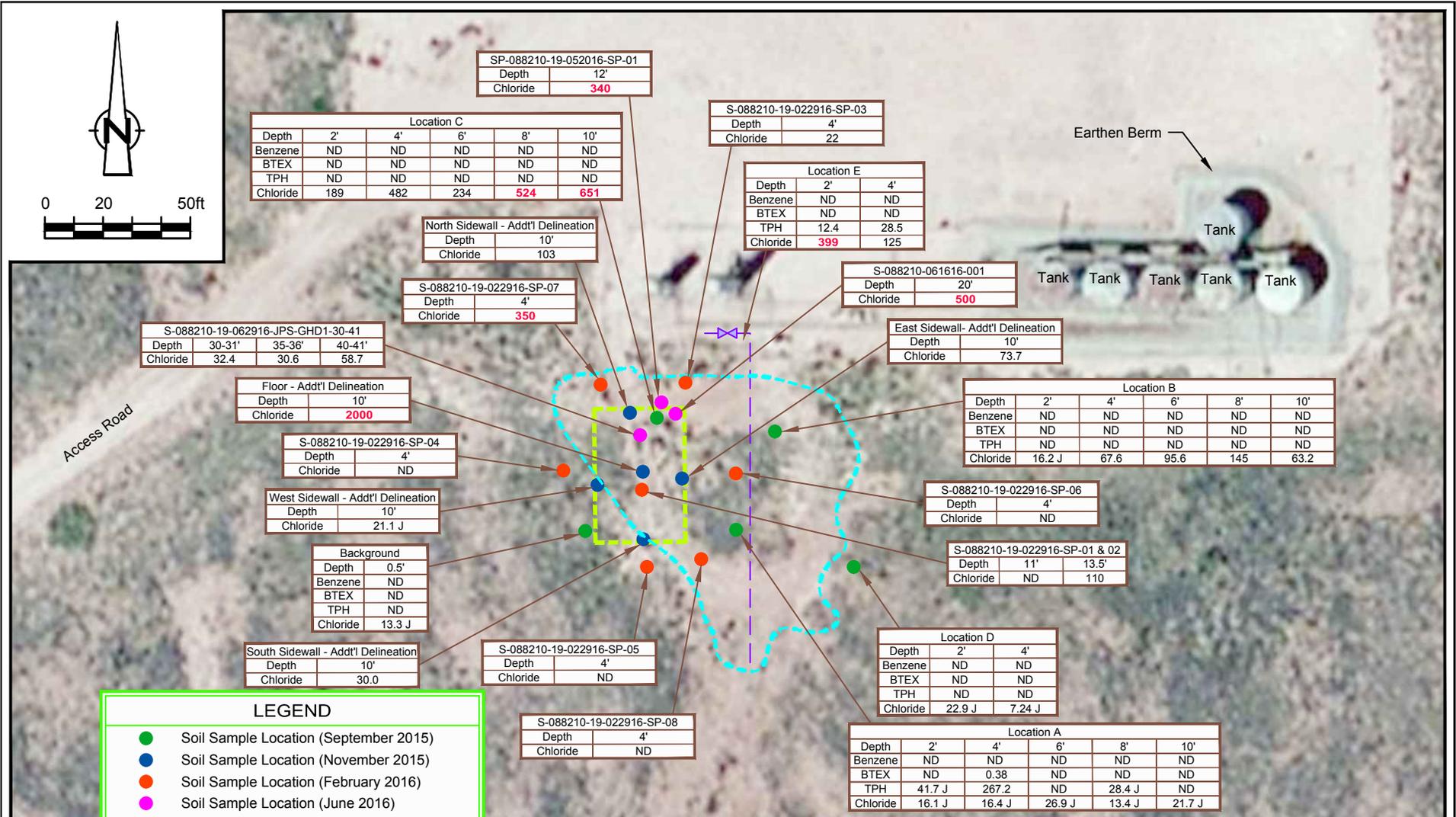


SOURCE: USGS 7.5 MINUTE QUAD
 "DOG LAKE, LAGUNA GATUNA NW, GREENWOOD LAKE,
 AND MALJAMAR, NEW MEXICO"

LAT/LONG: 32.7636° NORTH, 103.7306° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ZONE - NEW MEXICO EAST

Figure 1
 SITE LOCATION MAP
 SHORT FUSE FED #1 REMEDIATION
 LEA COUNTY, NEW MEXICO
EOG Resources





Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation

Figure 2

SITE DETAIL MAP
SHORT FUSE FED #1 REMEDIATION
LEA COUNTY, NEW MEXICO
EOG Resources

NOTES:

1. All units in milligrams/kilogram.
2. Concentrations in red indicates it is above the recommended remediation action limit.
3. Data from September and November 2015 were collected by CH2M Hill.



Tables

Table 1

Short Fuse State No. 1 Analytical Data

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH (GRO)	TPH (DRO)	TPH	Chloride
Recommended Remediation Action Limits			10			Total BTEX: 50		1000		500
Background										
FUSE-BG-0.5'-09212015(c)	0.5	9/21/2015	<0.00550	<0.00665	<0.0120	<0.00902	<2.39	<5.38	<7.77	13.3 J
Location A										
FUSE-A-2'-09212015	2	9/21/2015	<0.00566	<0.00685	<0.0123	<0.00928	<2.46	41.7 J	41.7 J	16.1 J
FUSE-A-4'-09212015	4	9/21/2015	<0.00604	<0.00731	0.0619	0.317	13.2	254	267.2	16.4 J
FUSE-A-6'-09212015	6	9/21/2015	<0.00626	<0.00757	<0.0136	<0.0102	<2.72	<6.13	<8.85	26.9 J
FUSE-A-8'-09212015	8	9/21/2015	<0.00610	<0.00739	<0.0133	<0.0100	<2.66	28.4 J	28.4 J	13.4 J
FUSE-A-10'-09212015	10	9/21/2015	<0.00608	<0.00736	<0.0132	<0.00998	<2.65	<5.96	<8.61	21.7 J
Location B										
FUSE-B-2'-09212015	2	9/21/2015	<0.00553	<0.00669	<0.0120	<0.00906	<2.40	<5.41	<7.81	16.2 J
FUSE-B-4'-09212015	4	9/21/2015	<0.00578	<0.00700	<0.0126	<0.00948	<2.52	<5.66	<8.18	67.6
FUSE-B-6'-09212015	6	9/21/2015	<0.00616	<0.00746	<0.0134	<0.0101	<2.68	<6.03	<8.71	95.6
FUSE-B-8'-09212015	8	9/21/2015	<0.00641	<0.00775	<0.0139	<0.0105	<2.79	<6.27	<9.06	145
FUSE-B-10'-09212015	10	9/21/2015	<0.00598	<0.00723	<0.0130	<0.00980	<2.60	<5.85	<8.45	63.2
Location C										
FUSE-C-2'-09212015	2	9/21/2015	<0.00555	<0.00671	<0.0121	<0.00910	<2.41	<5.43	<7.84	189
FUSE-C-4'-09212015	4	9/21/2015	<0.00648	<0.00785	<0.0141	<0.0106	<2.82	<6.35	<9.17	482
FUSE-C-6'-09212015	6	9/21/2015	<0.00566	<0.00685	<0.0123	<0.00929	<2.46	<5.55	<8.01	234
FUSE-C-8'-09212015	8	9/21/2015	<0.00601	<0.00727	<0.0131	<0.00985	<2.62	<5.88	<8.50	524
FUSE-C-10'-09212015	10	9/21/2015	<0.00607	<0.00735	<0.0132	<0.00995	<2.64	<5.94	<8.58	651
Location D										
FUSE-D-2'-09212015	2	9/21/2015	<0.00542	<0.00656	<0.0118	<0.00889	<2.36	<5.31	<7.67	22.9 J
FUSE-D-4'-09212015	4	9/21/2015	<0.00538	<0.00652	<0.0117	<0.00883	<2.34	<5.27	<7.61	7.24 J
Location E										
FUSE-E-2'-09212015	2	9/21/2015	<0.00559	<0.00677	<0.0122	<0.00917	<2.44	12.4 J	12.4 J	399
FUSE-E-4'-09212015	4	9/21/2015	<0.00559	<0.00676	<0.0122	<0.00916	<2.34	28.5 J	28.5 J	125
Fuse-W-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	21.1 J
Fuse-N-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	103
Fuse-E-10-11242015	10	11/24/2015	NA	NA	NA	NA	NA	NA	NA	73.7
Fuse-FL-10-11252015	10	11/25/2015	NA	NA	NA	NA	NA	NA	NA	2000
Fuse-S-10-11252015	10	11/25/2015	NA	NA	NA	NA	NA	NA	NA	30
GHD Sample Collection										
S-088210-022916-SP-01	11	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<1.5
S-088210-022916-SP-02	13.5	2/29/2016	NA	NA	NA	NA	NA	NA	NA	110
S-088210-022916-SP-03	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	22
S-088210-022916-SP-04	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-05	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-06	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-07	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	350
S-088210-022916-SP-08	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-19-052016-SP-01	12	5/20/2016	NA	NA	NA	NA	NA	NA	NA	350
S-088210-19-061616-SP-01	20	6/16/2016	NA	NA	NA	NA	NA	NA	NA	500
S-088210-062916-JPS-GHD1-30-31	30	6/29/2016	NA	NA	NA	NA	NA	NA	NA	32.45
S-088210-062916-JPS-GHD1-35-36	35	6/29/2016	NA	NA	NA	NA	NA	NA	NA	30.6
S-088210-062916-JPS-GHD1-40-41	40	6/29/2016	NA	NA	NA	NA	NA	NA	NA	58.7

Notes:

All samples are in milligrams per kilogram

Bolded numbers are above the RRAL

All samples are in milligrams per kilogram

J = Estimated concentration

Appendices

Appendix A

Analytical Data



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jennifer Dussor
 CH2M Hill
 12750 Merit Dr.
 Ste. 1100
 Dallas, Tx, 75251

Report Date: October 6, 2015

Work Order: 15092227



Project Location: Lea Co, NM
 Project Name: Short Fuse Fed #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
404963	FUSE-B-2'-09212015	soil	2015-09-21	12:14	2015-09-22
404964	FUSE-B-4'-09212015	soil	2015-09-21	12:18	2015-09-22
404965	FUSE-B-6'-09212015	soil	2015-09-21	12:22	2015-09-22
404966	FUSE-B-8'-09212015	soil	2015-09-21	12:26	2015-09-22
404967	FUSE-B-10'-09212015	soil	2015-09-21	12:30	2015-09-22
404968	FUSE-C-2'-09212015	soil	2015-09-21	12:44	2015-09-22
404969	FUSE-C-4'-09212015	soil	2015-09-21	12:48	2015-09-22
404970	FUSE-C-6'-09212015	soil	2015-09-21	12:52	2015-09-22
404971	FUSE-C-8'-09212015	soil	2015-09-21	12:56	2015-09-22
404972	FUSE-C-10'-09212015	soil	2015-09-21	13:00	2015-09-22
404973	FUSE-D-2'-09212015	soil	2015-09-21	13:14	2015-09-22
404974	FUSE-D-4'-09212015	soil	2015-09-21	13:18	2015-09-22
404975	FUSE-E-2'-09212015	soil	2015-09-21	13:30	2015-09-22
404976	FUSE-E-4'-09212015	soil	2015-09-21	13:34	2015-09-22
404977	FUSE-BG-0.5'-09212015	soil	2015-09-21	13:40	2015-09-22

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes

sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 46 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-09-22 and assigned to work order 15092227. Samples for work order 15092227 were received intact at a temperature of 0.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	105811	2015-09-24 at 07:10	125111	2015-09-24 at 13:36
Chloride (IC)	E 300.0	106048	2015-10-05 at 11:30	125365	2015-10-05 at 16:04
Chloride (IC)	E 300.0	106049	2015-10-05 at 11:30	125366	2015-10-05 at 16:04
Moisture Content	ASTM D 2216-05	105818	2015-09-23 at 09:20	125095	2015-09-24 at 08:30
Moisture Content	ASTM D 2216-05	105819	2015-09-23 at 09:20	125096	2015-09-24 at 08:30
TPH DRO	S 8015 D	105814	2015-09-23 at 15:00	125089	2015-09-24 at 07:53
TPH GRO	S 8015 D	105811	2015-09-24 at 07:10	125132	2015-09-25 at 09:56

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15092227 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 404963 - FUSE-B-2'-09212015

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2015-09-24	Analyzed By:	AK
QC Batch:	125111	Sample Preparation:	2015-09-24	Prepared By:	AK
Prep Batch:	105811				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00553	<0.0207	<0.00553	mg/Kg	1	0.00553	0.02	0.00533
Toluene	u	5	<0.00669	<0.0207	<0.00669	mg/Kg	1	0.00669	0.02	0.00645
Ethylbenzene	u	5	<0.0120	<0.0207	<0.0120	mg/Kg	1	0.0120	0.02	0.0116
Xylene	u	5	<0.00906	<0.0207	<0.00906	mg/Kg	1	0.00906	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

Sample: 404963 - FUSE-B-2'-09212015

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-10-05	Analyzed By:	RL
QC Batch:	125365	Sample Preparation:		Prepared By:	RL
Prep Batch:	106048				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	16.2	<25.9	<4.86	mg/Kg	1	4.86	25	4.69

Sample: 404963 - FUSE-B-2'-09212015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content	Date Analyzed:	2015-09-24	Analyzed By:	AM
QC Batch:	125095	Sample Preparation:	2015-09-23	Prepared By:	AM
Prep Batch:	105818				

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	3.55	%	1	0

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	u	1,2,3,4	<5.41	<51.8	<5.41	mg/Kg	1	5.41	50	5.22
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane	J	3	29.7	mg/Kg	1	25.0	119	48.9 - 172		

Sample: 404963 - FUSE-B-2'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	Qs,U	5	<2.40	<4.15	<2.40	mg/Kg	1	2.40	4	2.32
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	J		1.81	mg/Kg	1	2.00	90	70 - 130		
4-Bromofluorobenzene (4-BFB)	J		1.80	mg/Kg	1	2.00	90	70 - 130		

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00578	<0.0217	<0.00578	mg/Kg	1	0.00578	0.02	0.00533
Toluene	u	5	<0.00700	<0.0217	<0.00700	mg/Kg	1	0.00700	0.02	0.00645
Ethylbenzene	u	5	<0.0126	<0.0217	<0.0126	mg/Kg	1	0.0126	0.02	0.0116

continued ...

sample 404964 continued ...

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Xylene	u	5	<0.00948	<0.0217	<0.00948	mg/Kg	1	0.00948	0.02	0.00874
Surrogate			F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)					2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)					2.12	mg/Kg	1	2.00	106	70 - 130

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		3,4,6	67.6	67.6	<5.09	mg/Kg	1	5.09	25	4.69

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL		Units	Dilution	RL
			Result	Result			
Moisture		5	7.85		%	1	0

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	u	1,2,3,4	<5.66	<54.2	<5.66	mg/Kg	1	5.66	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	32.3	mg/Kg	1	25.0	129	48.9 - 172

Sample: 404964 - FUSE-B-4'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	5	<2.52	<4.34	<2.52	mg/Kg	1	2.52	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	5	<0.00616	<0.0231	<0.00616	mg/Kg	1	0.00616	0.02	0.00533
Toluene	U	5	<0.00746	<0.0231	<0.00746	mg/Kg	1	0.00746	0.02	0.00645
Ethylbenzene	U	5	<0.0134	<0.0231	<0.0134	mg/Kg	1	0.0134	0.02	0.0116
Xylene	U	5	<0.0101	<0.0231	<0.0101	mg/Kg	1	0.0101	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.13	mg/Kg	1	2.00	106	70 - 130

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A

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QC Batch: 125365
Prep Batch: 106048

Date Analyzed: 2015-10-05
Sample Preparation:

Analyzed By: RL
Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		3,4,6	95.6	95.6	<5.42	mg/Kg	1	5.42	25	4.69

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland

Analysis: Moisture Content

Analytical Method: ASTM D 2216-05

Prep Method: N/A

QC Batch: 125095

Date Analyzed: 2015-09-24

Analyzed By: AM

Prep Batch: 105818

Sample Preparation: 2015-09-23

Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	13.5	%	1	0

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Lubbock

Analysis: TPH DRO

Analytical Method: S 8015 D

Prep Method: N/A

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Prep Batch: 105814

Sample Preparation: 2015-09-23

Prepared By: HJ

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1,2,3,4	<6.03	<57.8	<6.03	mg/Kg	1	6.03	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	32.7	mg/Kg	1	25.0	131	48.9 - 172

Sample: 404965 - FUSE-B-6'-09212015

Laboratory: Midland

Analysis: TPH GRO

Analytical Method: S 8015 D

Prep Method: S 5035

QC Batch: 125132

Date Analyzed: 2015-09-25

Analyzed By: AK

Prep Batch: 105811

Sample Preparation: 2015-09-24

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	U	5	<2.68	<4.62	<2.68	mg/Kg	1	2.68	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland

Analysis: BTEX

QC Batch: 125111

Prep Batch: 105811

Analytical Method: S 8021B

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	5	<0.00641	<0.0240	<0.00641	mg/Kg	1	0.00641	0.02	0.00533
Toluene	U	5	<0.00775	<0.0240	<0.00775	mg/Kg	1	0.00775	0.02	0.00645
Ethylbenzene	U	5	<0.0139	<0.0240	<0.0139	mg/Kg	1	0.0139	0.02	0.0116
Xylene	U	5	<0.0105	<0.0240	<0.0105	mg/Kg	1	0.0105	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 125365

Prep Batch: 106048

Analytical Method: E 300.0

Date Analyzed: 2015-10-05

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		3,4,6	145	145	<5.64	mg/Kg	1	5.64	25	4.69

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 125095

Prep Batch: 105818

Analytical Method: ASTM D 2216-05

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-23

Prep Method: N/A

Analyzed By: AM

Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	16.8	%	1	0

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1,2,3,4	<6.27	<60.1	<6.27	mg/Kg	1	6.27	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	33.8	mg/Kg	1	25.0	135	48.9 - 172

Sample: 404966 - FUSE-B-8'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	5	<2.79	<4.81	<2.79	mg/Kg	1	2.79	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.70	mg/Kg	1	2.00	85	70 - 130

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00598	<0.0224	<0.00598	mg/Kg	1	0.00598	0.02	0.00533
Toluene	u	5	<0.00723	<0.0224	<0.00723	mg/Kg	1	0.00723	0.02	0.00645
Ethylbenzene	u	5	<0.0130	<0.0224	<0.0130	mg/Kg	1	0.0130	0.02	0.0116
Xylene	u	5	<0.00980	<0.0224	<0.00980	mg/Kg	1	0.00980	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		3,4,6	63.2	63.2	<5.26	mg/Kg	1	5.26	25	4.69

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			Result
Moisture		5	10.8	%	1	0

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

continued ...

sample 404967 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1,2,3,4	<5.85	<56.0	<5.85	mg/Kg	1	5.85	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	33.0	mg/Kg	1	25.0	132	48.9 - 172

Sample: 404967 - FUSE-B-10'-09212015

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 125132

Prep Batch: 105811

Analytical Method: S 8015 D

Date Analyzed: 2015-09-25

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	5	<2.60	<4.48	<2.60	mg/Kg	1	2.60	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.72	mg/Kg	1	2.00	86	70 - 130

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Midland

Analysis: BTEX

QC Batch: 125111

Prep Batch: 105811

Analytical Method: S 8021B

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	5	<0.00555	<0.0208	<0.00555	mg/Kg	1	0.00555	0.02	0.00533
Toluene	u	5	<0.00671	<0.0208	<0.00671	mg/Kg	1	0.00671	0.02	0.00645
Ethylbenzene	u	5	<0.0121	<0.0208	<0.0121	mg/Kg	1	0.0121	0.02	0.0116
Xylene	u	5	<0.00910	<0.0208	<0.00910	mg/Kg	1	0.00910	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		3,4,6	189	189	<4.88	mg/Kg	1	4.88	25	4.69

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	3.93	%	1	0

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1,2,3,4	<5.43	<52.0	<5.43	mg/Kg	1	5.43	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	35.5	mg/Kg	1	25.0	142	48.9 - 172

Sample: 404968 - FUSE-C-2'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	u	s	<2.41	<4.16	<2.41	mg/Kg	1	2.41	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)	j		1.70	mg/Kg	1	2.00	85	70 - 130

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	s	<0.00648	<0.0243	<0.00648	mg/Kg	1	0.00648	0.02	0.00533
Toluene	u	s	<0.00785	<0.0243	<0.00785	mg/Kg	1	0.00785	0.02	0.00645
Ethylbenzene	u	s	<0.0141	<0.0243	<0.0141	mg/Kg	1	0.0141	0.02	0.0116
Xylene	u	s	<0.0106	<0.0243	<0.0106	mg/Kg	1	0.0106	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)			1.99	mg/Kg	1	2.00	100	70 - 130

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		3,4,6	482	482	<11.4	mg/Kg	2	11.4	25	4.69

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	17.8	%	1	0

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1,2,3,4	<6.35	<60.8	<6.35	mg/Kg	1	6.35	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	30.8	mg/Kg	1	25.0	123	48.9 - 172

Sample: 404969 - FUSE-C-4'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	5	<2.82	<4.87	<2.82	mg/Kg	1	2.82	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.69	mg/Kg	1	2.00	84	70 - 130

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Benzene	u	5	<0.00566	<0.0212	<0.00566	mg/Kg	1	0.00566	0.02	0.00533
Toluene	u	5	<0.00685	<0.0212	<0.00685	mg/Kg	1	0.00685	0.02	0.00645
Ethylbenzene	u	5	<0.0123	<0.0212	<0.0123	mg/Kg	1	0.0123	0.02	0.0116
Xylene	u	5	<0.00929	<0.0212	<0.00929	mg/Kg	1	0.00929	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.96	mg/Kg	1	2.00	98	70 - 130

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Chloride		3,4,6	234	234	<4.98	mg/Kg	1	4.98	25	4.69

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			RL
Moisture		5	5.89	%	1	0

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	<5.55	<53.1	<5.55	mg/Kg	1	5.55	50	5.22
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane	J	3	32.5	mg/Kg	1	25.0	130	48.9 - 172		

Sample: 404970 - FUSE-C-6'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	U	5	<2.46	<4.25	<2.46	mg/Kg	1	2.46	4	2.32
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	J		1.84	mg/Kg	1	2.00	92	70 - 130		
4-Bromofluorobenzene (4-BFB)	J		1.67	mg/Kg	1	2.00	84	70 - 130		

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	U	5	<0.00601	<0.0225	<0.00601	mg/Kg	1	0.00601	0.02	0.00533
Toluene	U	5	<0.00727	<0.0225	<0.00727	mg/Kg	1	0.00727	0.02	0.00645
Ethylbenzene	U	5	<0.0131	<0.0225	<0.0131	mg/Kg	1	0.0131	0.02	0.0116
Xylene	U	5	<0.00985	<0.0225	<0.00985	mg/Kg	1	0.00985	0.02	0.00874
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130		
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130		

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125365 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106048 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		3,4,6	524	524	<10.6	mg/Kg	2	10.6	25	4.69

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125095 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105818 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	11.3	%	1	0

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	<5.88	<56.4	<5.88	mg/Kg	1	5.88	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	30.8	mg/Kg	1	25.0	123	48.9 - 172

Sample: 404971 - FUSE-C-8'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	u	s	<2.62	<4.51	<2.62	mg/Kg	1	2.62	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	j		1.92	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)	j		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Midland

Analysis: BTEX

QC Batch: 125111

Prep Batch: 105811

Analytical Method: S 8021B

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	s	<0.00607	<0.0228	<0.00607	mg/Kg	1	0.00607	0.02	0.00533
Toluene	u	s	<0.00735	<0.0228	<0.00735	mg/Kg	1	0.00735	0.02	0.00645
Ethylbenzene	u	s	<0.0132	<0.0228	<0.0132	mg/Kg	1	0.0132	0.02	0.0116
Xylene	u	s	<0.00995	<0.0228	<0.00995	mg/Kg	1	0.00995	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 125365

Prep Batch: 106048

Analytical Method: E 300.0

Date Analyzed: 2015-10-05

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	qs	3,4,6	651	651	<26.7	mg/Kg	5	26.7	25	4.69

Sample: 404972 - FUSE-C-10'-09212015

Laboratory: Midland

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Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
QC Batch:	125095	Date Analyzed:	2015-09-24	Analyzed By:	AM
Prep Batch:	105818	Sample Preparation:	2015-09-23	Prepared By:	AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	12.2	%	1	0

Sample: 404972 - FUSE-C-10'-09212015

Laboratory:	Lubbock				
Analysis:	TPH DRO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	125089	Date Analyzed:	2015-09-24	Analyzed By:	HJ
Prep Batch:	105814	Sample Preparation:	2015-09-23	Prepared By:	HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1,2,3,4	<5.94	<56.9	<5.94	mg/Kg	1	5.94	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	36.0	mg/Kg	1	25.0	144	48.9 - 172

Sample: 404972 - FUSE-C-10'-09212015

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	125132	Date Analyzed:	2015-09-25	Analyzed By:	AK
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	5	<2.64	<4.56	<2.64	mg/Kg	1	2.64	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.62	mg/Kg	1	2.00	81	70 - 130

Sample: 404973 - FUSE-D-2'-09212015

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035

QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00542	<0.0203	<0.00542	mg/Kg	1	0.00542	0.02	0.00533
Toluene	u	5	<0.00656	<0.0203	<0.00656	mg/Kg	1	0.00656	0.02	0.00645
Ethylbenzene	u	5	<0.0118	<0.0203	<0.0118	mg/Kg	1	0.0118	0.02	0.0116
Xylene	u	5	<0.00889	<0.0203	<0.00889	mg/Kg	1	0.00889	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.97	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	22.9	<25.4	<4.77	mg/Kg	1	4.77	25	4.69

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			RL
Moisture		5	1.69	%	1	0

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Lubbock
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1,2,3,4	<5.31	<50.8	<5.31	mg/Kg	1	5.31	50	5.22
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane	j	3	32.0	mg/Kg	1	25.0	128	48.9 - 172		

Sample: 404973 - FUSE-D-2'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	5	<2.36	<4.07	<2.36	mg/Kg	1	2.36	4	2.32
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	j		1.80	mg/Kg	1	2.00	90	70 - 130		
4-Bromofluorobenzene (4-BFB)	j		1.65	mg/Kg	1	2.00	82	70 - 130		

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	5	<0.00538	<0.0202	<0.00538	mg/Kg	1	0.00538	0.02	0.00533
Toluene	u	5	<0.00652	<0.0202	<0.00652	mg/Kg	1	0.00652	0.02	0.00645
Ethylbenzene	u	5	<0.0117	<0.0202	<0.0117	mg/Kg	1	0.0117	0.02	0.0116
Xylene	u	5	<0.00883	<0.0202	<0.00883	mg/Kg	1	0.00883	0.02	0.00874
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130		
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130		

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	7.24	<25.2	<4.74	mg/Kg	1	4.74	25	4.69

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	1.02	%	1	0

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	<5.27	<50.5	<5.27	mg/Kg	1	5.27	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	33.0	mg/Kg	1	25.0	132	48.9 - 172

Sample: 404974 - FUSE-D-4'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	u	s	<2.34	<4.04	<2.34	mg/Kg	1	2.34	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	j		1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)	j		1.74	mg/Kg	1	2.00	87	70 - 130

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Midland

Analysis: BTEX

QC Batch: 125111

Prep Batch: 105811

Analytical Method: S 8021B

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	s	<0.00559	<0.0210	<0.00559	mg/Kg	1	0.00559	0.02	0.00533
Toluene	u	s	<0.00677	<0.0210	<0.00677	mg/Kg	1	0.00677	0.02	0.00645
Ethylbenzene	u	s	<0.0122	<0.0210	<0.0122	mg/Kg	1	0.0122	0.02	0.0116
Xylene	u	s	<0.00917	<0.0210	<0.00917	mg/Kg	1	0.00917	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 125366

Prep Batch: 106049

Analytical Method: E 300.0

Date Analyzed: 2015-10-05

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		3,4,6	399	399	<9.84	mg/Kg	2	9.84	25	4.69

Sample: 404975 - FUSE-E-2'-09212015

Laboratory: Midland

Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
QC Batch:	125096	Date Analyzed:	2015-09-24	Analyzed By:	AM
Prep Batch:	105819	Sample Preparation:	2015-09-23	Prepared By:	AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	4.73	%	1	0

Sample: 404975 - FUSE-E-2'-09212015

Laboratory:	Lubbock				
Analysis:	TPH DRO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	125089	Date Analyzed:	2015-09-24	Analyzed By:	HJ
Prep Batch:	105814	Sample Preparation:	2015-09-23	Prepared By:	HJ

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	12.4	<52.5	<5.48	mg/Kg	1	5.48	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	34.1	mg/Kg	1	25.0	136	48.9 - 172

Sample: 404975 - FUSE-E-2'-09212015

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	125132	Date Analyzed:	2015-09-25	Analyzed By:	AK
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	U	5	<2.44	<4.20	<2.44	mg/Kg	1	2.44	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.57	mg/Kg	1	2.00	78	70 - 130

Sample: 404976 - FUSE-E-4'-09212015

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035

QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00559	<0.0210	<0.00559	mg/Kg	1	0.00559	0.02	0.00533
Toluene	u	5	<0.00676	<0.0210	<0.00676	mg/Kg	1	0.00676	0.02	0.00645
Ethylbenzene	u	5	<0.0122	<0.0210	<0.0122	mg/Kg	1	0.0122	0.02	0.0116
Xylene	u	5	<0.00916	<0.0210	<0.00916	mg/Kg	1	0.00916	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.06	mg/Kg	1	2.00	103	70 - 130
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		3,4,6	125	125	<4.92	mg/Kg	1	4.92	25	4.69

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	4.62	%	1	0

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Lubbock
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	28.5	<52.4	<5.47	mg/Kg	1	5.47	50	5.22
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane	J	3	36.6	mg/Kg	1	25.0	146	48.9 - 172		

Sample: 404976 - FUSE-E-4'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	U	5	<2.43	<4.19	<2.43	mg/Kg	1	2.43	4	2.32
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	J		1.91	mg/Kg	1	2.00	96	70 - 130		
4-Bromofluorobenzene (4-BFB)	J		1.63	mg/Kg	1	2.00	82	70 - 130		

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125111 Date Analyzed: 2015-09-24 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	U	5	<0.00550	<0.0206	<0.00550	mg/Kg	1	0.00550	0.02	0.00533
Toluene	U	5	<0.00665	<0.0206	<0.00665	mg/Kg	1	0.00665	0.02	0.00645
Ethylbenzene	U	5	<0.0120	<0.0206	<0.0120	mg/Kg	1	0.0120	0.02	0.0116
Xylene	U	5	<0.00902	<0.0206	<0.00902	mg/Kg	1	0.00902	0.02	0.00874
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130		
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130		

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	13.3	<25.8	<4.84	mg/Kg	1	4.84	25	4.69

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	3.08	%	1	0

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	<5.38	<51.6	<5.38	mg/Kg	1	5.38	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	35.6	mg/Kg	1	25.0	142	48.9 - 172

Sample: 404977 - FUSE-BG-0.5'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125132 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105811 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	u	s	<2.39	<4.13	<2.39	mg/Kg	1	2.39	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	j		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	j		1.64	mg/Kg	1	2.00	82	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Parameter	F	C	Result	Units	Reporting Limits
DRO		1,2,3,4	<5.22	mg/Kg	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		3	29.6	mg/Kg	1	25.0	118	48.9 - 172

Method Blank (1)

QC Batch: 125111
Prep Batch: 105811Date Analyzed: 2015-09-24
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		5	<0.00533	mg/Kg	0.00533
Toluene		5	<0.00645	mg/Kg	0.00645
Ethylbenzene		5	<0.0116	mg/Kg	0.0116
Xylene		5	<0.00874	mg/Kg	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.76	mg/Kg	1	2.00	88	70 - 130

Method Blank (1)

QC Batch: 125132
Prep Batch: 105811Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
GRO		5	<2.32	mg/Kg	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.65	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.48	mg/Kg	1	2.00	74	70 - 130

Method Blank (1)QC Batch: 125365
Prep Batch: 106048Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		3,4,6	<4.69	mg/Kg	4.69

Method Blank (1)QC Batch: 125366
Prep Batch: 106049Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		3,4,6	<4.69	mg/Kg	4.69

Duplicates

Duplicate (1) Duplicated Sample: 404972QC Batch: 125095
Prep Batch: 105818Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: AM
Prepared By: AM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		5	13.4	12.2	%	1	5	20

Duplicate (1) Duplicated Sample: 404982QC Batch: 125096
Prep Batch: 105819Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: AM
Prepared By: AM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		5	12.4	12.4	%	1	0	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3,4	438	mg/Kg	1	500	<5.22	88	60.9 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3,4	459	mg/Kg	1	500	<5.22	92	60.9 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane		3	29.4	33.0	mg/Kg	1	25.0	118	132	48.9 - 172

Laboratory Control Spike (LCS-1)

QC Batch: 125111
Prep Batch: 105811Date Analyzed: 2015-09-24
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	2.11	mg/Kg	1	2.00	<0.00533	106	70 - 130
Toluene		5	2.10	mg/Kg	1	2.00	<0.00645	105	70 - 130
Ethylbenzene		5	2.07	mg/Kg	1	2.00	<0.0116	104	70 - 130
Xylene		5	6.03	mg/Kg	1	6.00	<0.00874	100	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	2.06	mg/Kg	1	2.00	<0.00533	103	70 - 130	2	20
Toluene		5	2.04	mg/Kg	1	2.00	<0.00645	102	70 - 130	3	20
Ethylbenzene		5	2.00	mg/Kg	1	2.00	<0.0116	100	70 - 130	3	20
Xylene		5	5.97	mg/Kg	1	6.00	<0.00874	100	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.00	1.99	mg/Kg	1	2.00	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	2.08	mg/Kg	1	2.00	101	104	70 - 130

Laboratory Control Spike (LCS-1)QC Batch: 125132
Prep Batch: 105811Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		5	19.4	mg/Kg	1	20.0	<2.32	97	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
GRO		5	20.8	mg/Kg	1	20.0	<2.32	104	70 - 130	7

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.92	1.97	mg/Kg	1	2.00	96	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.79	1.78	mg/Kg	1	2.00	90	89	70 - 130

Laboratory Control Spike (LCS-1)QC Batch: 125365
Prep Batch: 106048Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	274	mg/Kg	1	250	<4.69	110	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		3,4,6	274	mg/Kg	1	250	<4.69	110	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 125366
Prep Batch: 106049

Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	275	mg/Kg	1	250	<4.69	110	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD Limit		
Chloride		3,4,6	275	mg/Kg	1	250	<4.69	110	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 404963QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3,4	386	mg/Kg	1	500	<5.22	77	47.9 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3,4	406	mg/Kg	1	500	<5.22	81	47.9 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane		3	31.6	33.1	mg/Kg	1	25	126	132	48.9 - 172

Matrix Spike (MS-1) Spiked Sample: 404963QC Batch: 125111
Prep Batch: 105811Date Analyzed: 2015-09-24
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	1.59	mg/Kg	1	2.00	<0.00533	80	70 - 130
Toluene		5	1.75	mg/Kg	1	2.00	<0.00645	88	70 - 130
Ethylbenzene		5	1.76	mg/Kg	1	2.00	<0.0116	88	70 - 130
Xylene		5	5.37	mg/Kg	1	6.00	<0.00874	90	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	1.62	mg/Kg	1	2.00	<0.00533	81	70 - 130	2	20
Toluene		5	1.76	mg/Kg	1	2.00	<0.00645	88	70 - 130	1	20
Ethylbenzene		5	1.85	mg/Kg	1	2.00	<0.0116	92	70 - 130	5	20
Xylene		5	5.52	mg/Kg	1	6.00	<0.00874	92	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.88	1.99	mg/Kg	1	2	94	100	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	1.98	mg/Kg	1	2	98	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404963QC Batch: 125132
Prep Batch: 105811Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	qs	5	11.5	mg/Kg	1	20.0	<2.32	58	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
GRO	qs	5	11.6	mg/Kg	1	20.0	<2.32	58	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.82	1.76	mg/Kg	1	2	91	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.73	1.76	mg/Kg	1	2	86	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404972QC Batch: 125365
Prep Batch: 106048Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	846	mg/Kg	5	250	572	110	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride	qs	3,4,6	715	mg/Kg	5	250	572	57	80 - 120	17	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 404982

QC Batch: 125366
Prep Batch: 106049

Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	290	mg/Kg	1	250	19	108	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD Limit
Chloride		3,4,6	286	mg/Kg	1	250	19	107	80 - 120 1 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3,4	mg/Kg	500	430	86	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3,4	mg/Kg	500	438	88	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch: 125111

Date Analyzed: 2015-09-24

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.106	106	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.105	105	80 - 120	2015-09-24
Ethylbenzene		5	mg/kg	0.100	0.102	102	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.301	100	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch: 125111

Date Analyzed: 2015-09-24

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.105	105	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.103	103	80 - 120	2015-09-24

continued ...

standard continued ...

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		5	mg/kg	0.100	0.0997	100	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.298	99	80 - 120	2015-09-24

Standard (CCV-3)

QC Batch: 125111

Date Analyzed: 2015-09-24

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.102	102	80 - 120	2015-09-24
Toluene		5	mg/kg	0.100	0.0997	100	80 - 120	2015-09-24
Ethylbenzene		5	mg/kg	0.100	0.0972	97	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.286	95	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch: 125132

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		5	mg/Kg	1.00	0.936	94	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125132

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		5	mg/Kg	1.00	0.841	84	80 - 120	2015-09-25

Standard (CCV-3)

QC Batch: 125132

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		5	mg/Kg	1.00	0.820	82	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch: 125365

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.1	108	90 - 110	2015-10-05

Standard (CCV-2)

QC Batch: 125365

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-1)

QC Batch: 125366

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-2)

QC Batch: 125366

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Xylene	0.0120	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	10.0	Pass
TPH DRO	S 8015 D	soil	TPH-2	DRO	10.4	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: CH2M HILL Phone #: 972 663 2287

Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #:

Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M.COM

Invoice to: DIRECT BILL EOG RE: ZANE KURTZ

Project #: Project Name: SHORT FUSE FED #1

Project Location: LEA COUNTY NEW MEXICO (include state) Sampler Signature:

LAB #		FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		MTBE 8021B / 602 / 8260B / 624 BTEX 8021B / 602 / 8260B / 624 TPH 416-TX1005 / DRO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / 624 GC/MS Semi Vol. 8270C/625 PCB's 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Cl, F, SO ₄ , NO ₂ -N, NO ₃ -N, PO ₄ -P, Alkalinity Na, Ca, Mg, K, TDS, EC CHLORIDES MOISTURE CONTENT Turn Around Time if different from standard Hold		
(LAB USE ONLY)					WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	TIME
404963		FUSE-B-2'-09212015	2	4OZ		✓									9/21	1214	✓
404964		FUSE-B-4'-09212015	↓	↓												1218	✓
404965		FUSE-B-6'-09212015	↓	↓												1222	✓
404966		FUSE-B-8'-09212015	↓	↓												1226	✓
404967		FUSE-B-10'-09212015	↓	↓												1230	✓

ANALYSIS REQUEST
(Circle or Specify Method No.)

GRO/DRO

Relinquished by: Warren Mann CH2M Company: CH2M Date: 9/22 Time: 1455

Received by: NOBLEY TA Company: TA Date: 9-22-15 Time: 1455

INST 0.4
OBS 0.3
COR

LAB USE ONLY

REMARKS: ANALYZE FOR MOISTURE CONTENT

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

8015
GRO/DRO

Intact Y/N

Headspace Y/N/NA

Log-in Review

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: CH2M HILL
Phone #: 972 663 2287

Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701
Fax #:

Contact Person: JENNIFER DUSSOR
E-mail: JENNIFER.DUSSOR@CH2M

Invoice to: DIRECT BILL EOG RE: ZANE KURTZ

Project #: _____ Project Name: SHORT FUSE FED #1

Project Location: (include state) LEA COUNTY NEW MEXICO
Sampler Signature: _____

LAB #		FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MIBE-8621B / 602 / 8260B / 624 BTEX 8021B / 602 / 8260B / 624 TPH 446-17 TX-1005 / DRO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6070B-400-1 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity Na, Ca, Mg, K, TDS, EC CHLORIDES MOISTURE CONTENT Turn Around Time if different from standard Hold	
(LAB USE ONLY)					WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME
404968		FUSE-C-2'-09212015-	2	4OZ		✓									9/21	1244	✓
404969		FUSE-C-4'-09212015														1248	✓
404970		FUSE-C-6'-09212015														1252	
404971		FUSE-C-8'-09212015														1256	
404972		FUSE-C-10'-09212015														1300	
404973		FUSE-D-2'-09212015														1314	
404974		FUSE-D-4'-09212015														1318	
404975		FUSE-E-2'-09212015														1330	
404976		FUSE-E-4'-09212015														1334	
404977		FUSE-BG-0.5'-09212015														1340	

Relinquished by: Warren Manner Company: CH2M Date: 9/22 Time: 1455
Received by: Nancy TA Company: TA Date: 9-22-15 Time: 1455

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: _____ Company: _____ Date: _____ Time: _____

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: _____ Company: _____ Date: _____ Time: _____

LAB USE ONLY

INST _____
OBS _____
COR _____

Intact Y / N _____
Headspace Y / N / NA _____
Log-in Review _____

REMARKS:

ANALYZE FOR MOISTURE CONTENT

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

IX 805
8015 DRO
GRO

Submittal of samples constitutes agreement to Terms and Conditions

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Company Name: CH2M HILL Phone #: 972 663 2287

Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #:

Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M

Invoice to: DIRECT BILL EOG RE: ZANE KURTZ

Project #: Project Name: SHORT FUSE FED #1

Project Location: (include state) LEA COUNTY NEW MEXICO Sampler Signature:

LAB #		FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		ANALYSIS REQUEST (Circle or Specify Method No.)	
(LAB USE ONLY)					WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME
404968		FUSE-C-2'-09212015-	2	4OZ		✓							✓		9/21	1244	<p>GRO/DRO</p> <p>MI/BE-8621B / 602 / 8260B / 624</p> <p>BTEX 8021B / 602 / 8260B / 624</p> <p>PH 446 / TX 1005 / DRO / TVHC</p> <p>PAH 8270C / 625</p> <p>Total Metals Ag As Ba Cd Cr Pb Se Hg 60705 / 900-7</p> <p>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</p> <p>TCLP Volatiles</p> <p>TCLP Semi Volatiles</p> <p>TCLP Pesticides</p> <p>RCI</p> <p>GC/MS Vol. 8260B / 624</p> <p>GC/MS Semi. Vol. 8270C/625</p> <p>PCBs 8082 / 608</p> <p>Pesticides 8081A / 608</p> <p>BOD, TSS, pH</p> <p>Moisture Content</p> <p>Cl, F, SO₄, NO₃-N, NO₂-N, PO₄-P, Alkalinity</p> <p>Na, Ca, Mg, K, TDS, EC</p> <p>CHLORIDES</p> <p>MOISTURE CONTENT</p> <p>Turn Around Time if different from standard</p> <p>Hold</p>
404969		FUSE-C-4'-09212015														1248	
404970		FUSE-C-6'-09212015														1252	
404971		FUSE-C-8'-09212015														1256	
404972		FUSE-C-10'-09212015														1300	
404973		FUSE-D-2'-09212015														1314	
404974		FUSE-D-4'-09212015														1318	
404975		FUSE-E-2'-09212015														1330	
404976		FUSE-E-4'-09212015														1334	
404977		FUSE-BG-0.5'-09212015	✓	✓	✓								✓		✓	1340	

Relinquished by: Warren Manner	Company: CH2M	Date: 9/22	Time: 1455	Received by: [Signature]	Company: TA	Date: 9-22-15	Time: 14:55	INST: [Signature]	OBS: 0.4 °C	COR: 0.3 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:	OBS:	COR:
Relinquished by: Brenda Ward	Company: TA Lubbock	Date: 9/23/15	Time: 9:15	Received by:	Company:	Date:	Time:	INST: 12.3	OBS: 4.0 °C	COR: 4.6 °C

LAB USE ONLY

REMARKS: ANALYZE FOR MOISTURE CONTENT

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

Intact Y / N

Headspace Y / N / NA

Log-in Review

TX 805

8015 DRO

GRO

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jennifer Dussor
 CH2M Hill
 12750 Merit Dr.
 Ste. 1100
 Dallas, Tx, 75251

Report Date: October 6, 2015

Work Order: 15092228



Project Location: Lea Co, NM
 Project Name: Short Fuse Fed #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
404978	FUSE-A-2'-09212015	soil	2015-09-21	11:50	2015-09-22
404979	FUSE-A-4'-09212015	soil	2015-09-21	11:54	2015-09-22
404980	FUSE-A-6'-09212015	soil	2015-09-21	11:58	2015-09-22
404981	FUSE-A-8'-09212015	soil	2015-09-21	12:02	2015-09-22
404982	FUSE-A-10'-09212015	soil	2015-09-21	12:06	2015-09-22

Notes

- **Work Order 15092228:** Separate report for "A" series Samples

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with a thick, dark line.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-09-22 and assigned to work order 15092228. Samples for work order 15092228 were received intact at a temperature of 0.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	105841	2015-09-24 at 16:19	125138	2015-09-25 at 11:28
Chloride (IC)	E 300.0	106049	2015-10-05 at 11:30	125366	2015-10-05 at 16:04
Moisture Content	ASTM D 2216-05	105819	2015-09-23 at 09:20	125096	2015-09-24 at 08:30
TPH DRO	S 8015 D	105814	2015-09-23 at 15:00	125089	2015-09-24 at 07:53
TPH GRO	S 8015 D	105841	2015-09-24 at 16:19	125143	2015-09-25 at 13:28

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15092228 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 404978 - FUSE-A-2'-09212015

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2015-09-25	Analyzed By:	AK
QC Batch:	125138	Sample Preparation:	2015-09-24	Prepared By:	AK
Prep Batch:	105841				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	Qs,U	5	<0.00566	<0.0212	<0.00566	mg/Kg	1	0.00566	0.02	0.00533
Toluene	U	5	<0.00685	<0.0212	<0.00685	mg/Kg	1	0.00685	0.02	0.00645
Ethylbenzene	U	5	<0.0123	<0.0212	<0.0123	mg/Kg	1	0.0123	0.02	0.0116
Xylene	U	5	<0.00928	<0.0212	<0.00928	mg/Kg	1	0.00928	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	70 - 130

Sample: 404978 - FUSE-A-2'-09212015

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-10-05	Analyzed By:	RL
QC Batch:	125366	Sample Preparation:		Prepared By:	RL
Prep Batch:	106049				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	16.1	<26.6	<4.98	mg/Kg	1	4.98	25	4.69

Sample: 404978 - FUSE-A-2'-09212015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content	Date Analyzed:	2015-09-24	Analyzed By:	AM
QC Batch:	125096	Sample Preparation:	2015-09-23	Prepared By:	AM
Prep Batch:	105819				

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	5.84	%	1	0

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	41.7	<53.1	<5.54	mg/Kg	1	5.54	50	5.22
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane	J	3	37.3	mg/Kg	1	25.0	149	48.9 - 172		

Sample: 404978 - FUSE-A-2'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
GRO	Qr,Qs,U	5	<2.46	<4.25	<2.46	mg/Kg	1	2.46	4	2.32
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	J		1.99	mg/Kg	1	2.00	100	70 - 130		
4-Bromofluorobenzene (4-BFB)	J		1.84	mg/Kg	1	2.00	92	70 - 130		

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	U	5	<0.00604	<0.0227	<0.00604	mg/Kg	1	0.00604	0.02	0.00533
Toluene	U	5	<0.00731	<0.0227	<0.00731	mg/Kg	1	0.00731	0.02	0.00645
Ethylbenzene		5	0.0619	0.0619	<0.0132	mg/Kg	1	0.0132	0.02	0.0116

continued ...

sample 404979 continued ...

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Xylene		5	0.317	0.317	<0.00991	mg/Kg	1	0.00991	0.02	0.00874
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130		
4-Bromofluorobenzene (4-BFB)			1.71	mg/Kg	1	2.00	86	70 - 130		

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Chloride	J	3,4,6	16.4	<28.3	<5.32	mg/Kg	1	5.32	25	4.69

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			Result
Moisture		5	11.8	%	1	0

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
DRO		1,2,3,4	254	254	<5.92	mg/Kg	1	5.92	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J,Qsr	3	45.2	mg/Kg	1	25.0	181	48.9 - 172

Sample: 404979 - FUSE-A-4'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr	5	13.2	13.2	<2.63	mg/Kg	1	2.63	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.86	mg/Kg	1	2.00	93	70 - 130

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	5	<0.00626	<0.0235	<0.00626	mg/Kg	1	0.00626	0.02	0.00533
Toluene	u	5	<0.00757	<0.0235	<0.00757	mg/Kg	1	0.00757	0.02	0.00645
Ethylbenzene	u	5	<0.0136	<0.0235	<0.0136	mg/Kg	1	0.0136	0.02	0.0116
Xylene	u	5	<0.0102	<0.0235	<0.0102	mg/Kg	1	0.0102	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.43	mg/Kg	1	2.00	72	70 - 130

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A

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QC Batch: 125366
Prep Batch: 106049

Date Analyzed: 2015-10-05
Sample Preparation:

Analyzed By: RL
Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	26.9	<29.3	<5.50	mg/Kg	1	5.50	25	4.69

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland

Analysis: Moisture Content

Analytical Method: ASTM D 2216-05

Prep Method: N/A

QC Batch: 125096

Date Analyzed: 2015-09-24

Analyzed By: AM

Prep Batch: 105819

Sample Preparation: 2015-09-23

Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		5	14.8	%	1	0

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Lubbock

Analysis: TPH DRO

Analytical Method: S 8015 D

Prep Method: N/A

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Prep Batch: 105814

Sample Preparation: 2015-09-23

Prepared By: HJ

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	<6.13	<58.7	<6.13	mg/Kg	1	6.13	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike	Percent	Recovery
						Amount <td>Recovery <td>Limits</td> </td>	Recovery <td>Limits</td>	Limits
n-Tricosane	J	3	32.0	mg/Kg	1	25.0	128	48.9 - 172

Sample: 404980 - FUSE-A-6'-09212015

Laboratory: Midland

Analysis: TPH GRO

Analytical Method: S 8015 D

Prep Method: S 5035

QC Batch: 125143

Date Analyzed: 2015-09-25

Analyzed By: AK

Prep Batch: 105841

Sample Preparation: 2015-09-24

Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
GRO	Qr,U	5	<2.72	<4.69	<2.72	mg/Kg	1	2.72	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland

Analysis: BTEX

QC Batch: 125138

Prep Batch: 105841

Analytical Method: S 8021B

Date Analyzed: 2015-09-25

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	U	5	<0.00610	<0.0229	<0.00610	mg/Kg	1	0.00610	0.02	0.00533
Toluene	U	5	<0.00739	<0.0229	<0.00739	mg/Kg	1	0.00739	0.02	0.00645
Ethylbenzene	U	5	<0.0133	<0.0229	<0.0133	mg/Kg	1	0.0133	0.02	0.0116
Xylene	U	5	<0.0100	<0.0229	<0.0100	mg/Kg	1	0.0100	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.46	mg/Kg	1	2.00	73	70 - 130

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 125366

Prep Batch: 106049

Analytical Method: E 300.0

Date Analyzed: 2015-10-05

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	13.4	<28.6	<5.37	mg/Kg	1	5.37	25	4.69

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 125096

Prep Batch: 105819

Analytical Method: ASTM D 2216-05

Date Analyzed: 2015-09-24

Sample Preparation: 2015-09-23

Prep Method: N/A

Analyzed By: AM

Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		5	12.7	%	1	0

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1,2,3,4	28.4	<57.3	<5.98	mg/Kg	1	5.98	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	35.2	mg/Kg	1	25.0	141	48.9 - 172

Sample: 404981 - FUSE-A-8'-09212015

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 125143 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	5	<2.66	<4.58	<2.66	mg/Kg	1	2.66	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 125138 Date Analyzed: 2015-09-25 Analyzed By: AK
 Prep Batch: 105841 Sample Preparation: 2015-09-24 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Benzene	u	5	<0.00608	<0.0228	<0.00608	mg/Kg	1	0.00608	0.02	0.00533
Toluene	u	5	<0.00736	<0.0228	<0.00736	mg/Kg	1	0.00736	0.02	0.00645
Ethylbenzene	u	5	<0.0132	<0.0228	<0.0132	mg/Kg	1	0.0132	0.02	0.0116
Xylene	u	5	<0.00998	<0.0228	<0.00998	mg/Kg	1	0.00998	0.02	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.44	mg/Kg	1	2.00	72	70 - 130

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 125366 Date Analyzed: 2015-10-05 Analyzed By: RL
 Prep Batch: 106049 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	J	3,4,6	21.7	<28.5	<5.35	mg/Kg	1	5.35	25	4.69

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 125096 Date Analyzed: 2015-09-24 Analyzed By: AM
 Prep Batch: 105819 Sample Preparation: 2015-09-23 Prepared By: AM

Parameter	F	C	RL	Units	Dilution	RL
			Result			Result
Moisture		5	12.4	%	1	0

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Lubbock
 Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 125089 Date Analyzed: 2015-09-24 Analyzed By: HJ
 Prep Batch: 105814 Sample Preparation: 2015-09-23 Prepared By: HJ

continued ...

sample 404982 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1,2,3,4	<5.96	<57.1	<5.96	mg/Kg	1	5.96	50	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J	3	34.5	mg/Kg	1	25.0	138	48.9 - 172

Sample: 404982 - FUSE-A-10'-09212015

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 125143

Prep Batch: 105841

Analytical Method: S 8015 D

Date Analyzed: 2015-09-25

Sample Preparation: 2015-09-24

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	5	<2.65	<4.57	<2.65	mg/Kg	1	2.65	4	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.62	mg/Kg	1	2.00	81	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Parameter	F	C	Result	Units	Reporting Limits
DRO		1,2,3,4	<5.22	mg/Kg	5.22

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		3	29.6	mg/Kg	1	25.0	118	48.9 - 172

Method Blank (1)

QC Batch: 125138
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Benzene		5	<0.00533	mg/Kg	0.00533
Toluene		5	<0.00645	mg/Kg	0.00645
Ethylbenzene		5	<0.0116	mg/Kg	0.0116
Xylene		5	<0.00874	mg/Kg	0.00874

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.48	mg/Kg	1	2.00	74	70 - 130

Method Blank (1)

QC Batch: 125143
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
GRO		5	<2.32	mg/Kg	2.32

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.67	mg/Kg	1	2.00	84	70 - 130

Method Blank (1)QC Batch: 125366
Prep Batch: 106049Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		3,4,6	<4.69	mg/Kg	4.69

Duplicates

Duplicate (1) Duplicated Sample: 404982

QC Batch: 125096
Prep Batch: 105819

Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23

Analyzed By: AM
Prepared By: AM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		5	12.4	12.4	%	1	0	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3,4	438	mg/Kg	1	500	<5.22	88	60.9 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3,4	459	mg/Kg	1	500	<5.22	92	60.9 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane		3	29.4	33.0	mg/Kg	1	25.0	118	132	48.9 - 172

Laboratory Control Spike (LCS-1)

QC Batch: 125138
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	2.00	mg/Kg	1	2.00	<0.00533	100	70 - 130
Toluene		5	1.83	mg/Kg	1	2.00	<0.00645	92	70 - 130
Ethylbenzene		5	1.78	mg/Kg	1	2.00	<0.0116	89	70 - 130
Xylene		5	5.45	mg/Kg	1	6.00	<0.00874	91	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	1.87	mg/Kg	1	2.00	<0.00533	94	70 - 130	7	20
Toluene		5	1.74	mg/Kg	1	2.00	<0.00645	87	70 - 130	5	20
Ethylbenzene		5	1.69	mg/Kg	1	2.00	<0.0116	84	70 - 130	5	20
Xylene		5	5.09	mg/Kg	1	6.00	<0.00874	85	70 - 130	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.80	1.81	mg/Kg	1	2.00	90	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.49	1.47	mg/Kg	1	2.00	74	74	70 - 130

Laboratory Control Spike (LCS-1)QC Batch: 125143
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		5	20.3	mg/Kg	1	20.0	<2.32	102	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
GRO		5	20.7	mg/Kg	1	20.0	<2.32	104	70 - 130	2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.85	1.85	mg/Kg	1	2.00	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.70	1.69	mg/Kg	1	2.00	85	84	70 - 130

Laboratory Control Spike (LCS-1)QC Batch: 125366
Prep Batch: 106049Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	275	mg/Kg	1	250	<4.69	110	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		3,4,6	275	mg/Kg	1	250	<4.69	110	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 404963QC Batch: 125089
Prep Batch: 105814Date Analyzed: 2015-09-24
QC Preparation: 2015-09-23Analyzed By: HJ
Prepared By: HJ

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3,4	386	mg/Kg	1	500	<5.22	77	47.9 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3,4	406	mg/Kg	1	500	<5.22	81	47.9 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane		3	31.6	33.1	mg/Kg	1	25	126	132	48.9 - 172

Matrix Spike (MS-1) Spiked Sample: 404978QC Batch: 125138
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Q _s	5	1.07	mg/Kg	1	2.00	<0.00533	54	70 - 130
Toluene	Q _s	5	1.27	mg/Kg	1	2.00	<0.00645	64	70 - 130
Ethylbenzene		5	1.40	mg/Kg	1	2.00	<0.0116	70	70 - 130
Xylene		5	4.29	mg/Kg	1	6.00	<0.00874	72	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Q _s	5	1.28	mg/Kg	1	2.00	<0.00533	64	70 - 130	18	20
Toluene		5	1.42	mg/Kg	1	2.00	<0.00645	71	70 - 130	11	20
Ethylbenzene		5	1.55	mg/Kg	1	2.00	<0.0116	78	70 - 130	10	20
Xylene		5	4.72	mg/Kg	1	6.00	<0.00874	79	70 - 130	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.78	1.86	mg/Kg	1	2	89	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.50	1.48	mg/Kg	1	2	75	74	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404978QC Batch: 125143
Prep Batch: 105841Date Analyzed: 2015-09-25
QC Preparation: 2015-09-24Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	Qs	5	10.7	mg/Kg	1	20.0	<2.32	54	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
GRO	Qr, Qs	5	2.78	mg/Kg	1	20.0	<2.32	14	70 - 130	118 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.72	1.76	mg/Kg	1	2	86	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.71	1.70	mg/Kg	1	2	86	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 404982QC Batch: 125366
Prep Batch: 106049Date Analyzed: 2015-10-05
QC Preparation: 2015-10-05Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,6	290	mg/Kg	1	250	19	108	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		3,4,6	286	mg/Kg	1	250	19	107	80 - 120	1 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3,4	mg/Kg	500	430	86	80 - 120	2015-09-24

Standard (CCV-2)

QC Batch: 125089

Date Analyzed: 2015-09-24

Analyzed By: HJ

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3,4	mg/Kg	500	438	88	80 - 120	2015-09-24

Standard (CCV-1)

QC Batch: 125138

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.0954	95	80 - 120	2015-09-25
Toluene		5	mg/kg	0.100	0.0891	89	80 - 120	2015-09-25
Ethylbenzene		5	mg/kg	0.100	0.0875	88	80 - 120	2015-09-25
Xylene		5	mg/kg	0.300	0.266	89	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125138

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.0970	97	80 - 120	2015-09-25
Toluene		5	mg/kg	0.100	0.0871	87	80 - 120	2015-09-25

continued ...

standard continued ...

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		5	mg/kg	0.100	0.0869	87	80 - 120	2015-09-25
Xylene		5	mg/kg	0.300	0.259	86	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch: 125143

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		5	mg/Kg	1.00	0.965	96	80 - 120	2015-09-25

Standard (CCV-2)

QC Batch: 125143

Date Analyzed: 2015-09-25

Analyzed By: AK

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		5	mg/Kg	1.00	0.891	89	80 - 120	2015-09-25

Standard (CCV-1)

QC Batch: 125366

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Standard (CCV-2)

QC Batch: 125366

Date Analyzed: 2015-10-05

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,6	mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Xylene	0.0120	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	10.0	Pass
TPH DRO	S 8015 D	soil	TPH-2	DRO	10.4	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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Carrollton, Texas 75006
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Company Name: CH2M HILL Phone #: 972 663 2287

Address: 306 W. WALL ST. SUITE 1107 MIDLAND TX 79701 Fax #:

Contact Person: JENNIFER DUSSOR E-mail: JENNIFER.DUSSOR@CH2M.COM

Invoice to: DIRECT BILL EOG RE: ZANE KURTZ

Project #: Project Name: SHORT FUSE FED #1

Project Location: LEA COUNTY NEW MEXICO Sampler Signature: *[Signature]*

ANALYSIS REQUEST

(Circle or Specify Method No.)

8015
8010
8010

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MIRE 8021B / 602 / 8260B / 624 BTEX 8021B / 602 / 8260B / 624 TH 478.1 / TX1005 / DRO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Cl, F, SO ₄ , NO ₂ -N, NO ₃ -N, PO ₄ -P, Alkalinity Na, Ca, Mg, K, TDS, EC CHLORIDES MOISTURE CONTENT Turn Around Time if different from standard Hold	DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE					
40498	FUSE-A-2'-09212015	2	4OZ		✓											02/1	1150	✓
40499	FUSE-A-4'-09212015	↓	↓														1154	✓
404980	FUSE-A-6'-09212015	↓	↓														1158	✓
404981	FUSE-A-8'-09212015	↓	↓														1202	✓
404982	FUSE-A-10'-09212015	↓	↓														1206	✓

Relinquished by: Warren Maurer Company: CH2M Date: 9/22 Time: 1455
Received by: Nalley TA Company: TA Date: 9-22-15 Time: 14:55

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: _____ Company: _____ Date: _____ Time: _____

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: _____ Company: _____ Date: _____ Time: _____

LAB USE ONLY

Intact Y / N _____

Headspace Y / N / NA _____

Log-in Review _____

Carrier # COY-11

REMARKS:

ANALYZE FOR MOISTURE CONTENT

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

Please generate separate report

Submittal of samples constitutes agreement to Terms and Conditions

ORIGINAL COPY

Separate report for "A" series samples!



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jennifer Dussor
 CH2M Hill
 12750 Merit Dr.
 Ste. 1100
 Dallas, Tx, 75251

Report Date: December 21, 2015

Work Order: 15112524



Project Location: Lea Co, NM
 Project Name: Short Fuse Fed #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409116	Fuse-W-10-11242015	soil	2015-11-24	14:40	2015-11-25
409117	Fuse-N-10-11242015	soil	2015-11-24	15:20	2015-11-25
409118	Fuse-E-10-11242015	soil	2015-11-24	15:30	2015-11-25
409119	Fuse-FL-10-11242015	soil	2015-11-24	11:40	2015-11-25
409120	Fuse-S-10-11242015	soil	2015-11-24	11:50	2015-11-25

Notes

- **Work Order 15112524:** NMOCD. Dry weight basis required.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with a thick, dark line.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Short Fuse Fed #1 were received by TraceAnalysis, Inc. on 2015-11-25 and assigned to work order 15112524. Samples for work order 15112524 were received intact at a temperature of 23.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107354	2015-12-09 at 11:25	126856	2015-12-09 at 12:19
Moisture Content	ASTM D 2216-05	107186	2015-11-27 at 12:25	126661	2015-11-30 at 10:42

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15112524 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 409116 - Fuse-W-10-11242015

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-12-09	Analyzed By:	RL
QC Batch:	126856	Sample Preparation:		Prepared By:	RL
Prep Batch:	107354				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B, Jb	1, 2, 4	21.1	<29.2	14.5	mg/Kg	1	9.74	25	8.34

Sample: 409116 - Fuse-W-10-11242015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content	Date Analyzed:	2015-11-30	Analyzed By:	AM
QC Batch:	126661	Sample Preparation:	2015-11-27	Prepared By:	AM
Prep Batch:	107186				

Parameter	F	C	RL	Units	Dilution	RL
			Result			
Moisture		3	14.4	%	1	0

Sample: 409117 - Fuse-N-10-11242015

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-12-09	Analyzed By:	RL
QC Batch:	126856	Sample Preparation:		Prepared By:	RL
Prep Batch:	107354				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1, 2, 4	103	103	14.1	mg/Kg	1	9.48	25	8.34

Sample: 409117 - Fuse-N-10-11242015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content				

Report Date: December 21, 2015

Work Order: 15112524
Short Fuse Fed #1

Page Number: 6 of 15
Lea Co, NM

QC Batch: 126661
Prep Batch: 107186

Date Analyzed: 2015-11-30
Sample Preparation: 2015-11-27

Analyzed By: AM
Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		3	12.0	%	1	0

Sample: 409118 - Fuse-E-10-11242015

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 126856
Prep Batch: 107354

Analytical Method: E 300.0
Date Analyzed: 2015-12-09
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,2,4	73.7	73.7	14.6	mg/Kg	1	9.82	25	8.34

Sample: 409118 - Fuse-E-10-11242015

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 126661
Prep Batch: 107186

Analytical Method: ASTM D 2216-05
Date Analyzed: 2015-11-30
Sample Preparation: 2015-11-27

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		3	15.1	%	1	0

Sample: 409119 - Fuse-FL-10-11242015

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 126856
Prep Batch: 107354

Analytical Method: E 300.0
Date Analyzed: 2015-12-09
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,2,4	2000	2000	69.4	mg/Kg	5	46.7	25	8.34

Sample: 409119 - Fuse-FL-10-11242015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content	Date Analyzed:	2015-11-30	Analyzed By:	AM
QC Batch:	126661	Sample Preparation:	2015-11-27	Prepared By:	AM
Prep Batch:	107186				

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		3	10.7	%	1	0

Sample: 409120 - Fuse-S-10-11242015

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-12-09	Analyzed By:	RL
QC Batch:	126856	Sample Preparation:		Prepared By:	RL
Prep Batch:	107354				

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,2,4	30.0	30.0	13.8	mg/Kg	1	9.31	25	8.34

Sample: 409120 - Fuse-S-10-11242015

Laboratory:	Midland	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
Analysis:	Moisture Content	Date Analyzed:	2015-11-30	Analyzed By:	AM
QC Batch:	126661	Sample Preparation:	2015-11-27	Prepared By:	AM
Prep Batch:	107186				

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		3	10.4	%	1	0

Method Blanks

Method Blank (1)

QC Batch: 126856
Prep Batch: 107354

Date Analyzed: 2015-12-09
QC Preparation: 2015-12-09

Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,2,4	12.4	mg/Kg	8.34

Duplicates

Duplicate (1) Duplicated Sample: 409120

QC Batch: 126661
Prep Batch: 107186

Date Analyzed: 2015-11-30
QC Preparation: 2015-11-27

Analyzed By: AM
Prepared By: AM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		3	10.8	10.4	%	1	4	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 126856
Prep Batch: 107354

Date Analyzed: 2015-12-09
QC Preparation: 2015-12-09

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,2,4	261	mg/Kg	1	250	12.4	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1,2,4	262	mg/Kg	1	250	12.4	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 409120

QC Batch: 126856
Prep Batch: 107354

Date Analyzed: 2015-12-09
QC Preparation: 2015-12-09

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,2,4	279	mg/Kg	1	250	26.9	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1,2,4	277	mg/Kg	1	250	26.9	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 126856

Date Analyzed: 2015-12-09

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,2,4	mg/Kg	25.0	26.7	107	90 - 110	2015-12-09

Standard (CCV-2)

QC Batch: 126856

Date Analyzed: 2015-12-09

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,2,4	mg/Kg	25.0	26.1	104	90 - 110	2015-12-09

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	12.5	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	LELAP	LELAP-02003	Lubbock
2	NELAP	T104704219-15-11	Lubbock
3	NELAP	T104704392-14-8	Midland
4		2015-066	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: CH2M HILL Phone #:

Address: 12750 Merit Drive, Suite 1100 Dallas TX 75251 Fax #:

Contact Person: Jennifer Dussor E-mail: Jennifer.Dussor@CH2M.com

Invoice to: Direct Bill EOG RE: Zane Kurtz

Project #: \$ Project Name: Short Fuse Fed #1

Project Location (including state): Sampler Signature: RAWM

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021 / 602 / 8260 / 624	
BTEX	8021 / 602 / 8260 / 624	
TPH 418.1	TX1005 / TX1005 Ext(C35)	
TPH 8015	GRO / DRO / TVHC	
PAH	8270 / 625	
Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals	Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol.	8260 / 624	
GC/MS Semi. Vol.	8270 / 625	
PCBs	8082 / 608	
Pesticides	8081 / 608	
BOD, TSS, pH		
Moisture Content		
Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity		
Na, Ca, Mg, K, TDS, EC		
<u>Chlorides EPA 300</u>		
<u>Moisture %</u>		
Turn Around Time if different from standard		
Hold		

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
409116	Fuse-W-10-11242015	1	4oz		X								11/24	1440
409117	Fuse-N-10-11242015	1											11/24	1520
409118	Fuse-E-10-11242015	1											11/24	1530
409119	Fuse-FL-10-11252015	1											11/25	1140
409120	Fuse-S-10-11252015	1											11/25	1150

Relinquished by: <u>RAWM</u>	Company: <u>CH2M</u>	Date: <u>11/25/15</u>	Time: <u>16:05</u>	Received by: <u>RAWM</u>	Company: <u>TA</u>	Date: <u>11-25-15</u>	Time: <u>10:05</u>	INST <u>23.3</u>	OBS <u>23.2</u>	COR <u>23.2</u>
Relinquished by: <u>RAWM</u>	Company: <u>TA</u>	Date: <u>11-25-15</u>	Time: <u>16:25</u>	Received by: <u>RAWM</u>	Company: <u>TA</u>	Date: <u>11-25-15</u>	Time: <u>16:25</u>	INST <u>23.3</u>	OBS <u>23.2</u>	COR <u>23.2</u>
Relinquished by: <u>RAWM</u>	Company: <u>TA</u>	Date: <u>11/25/15</u>	Time: <u>09:50</u>	Received by: <u>RAWM</u>	Company: <u>TA</u>	Date: <u>11/25/15</u>	Time: <u>09:50</u>	INST <u>23.3</u>	OBS <u>23.2</u>	COR <u>23.2</u>

LAB USE ONLY

Intact Y N

Headspace Y N NA

Log-in-Review

REMARKS:

NMOCN

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # Carry in JS: 31172464



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 11, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Short Fuse Fed #1

OrderNo.: 1603189

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/3/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1603189

Date Reported: 3/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Short Fuse Fed #1

Lab Order: 1603189

Lab ID: 1603189-001 Collection Date: 2/29/2016 11:55:00 AM
Client Sample ID: S-088210-19-022916-SP-01 Matrix: SOIL

Table with 8 columns: Analyses, Result, PQL, Qual, Units, DF, Date Analyzed, Batch ID. Row 1: EPA METHOD 300.0: ANIONS, Chloride, ND, 1.5, mg/Kg, 1, 3/8/2016 7:10:29 PM, 24147. Analyst: LGT

Lab ID: 1603189-002 Collection Date: 2/29/2016 12:20:00 PM
Client Sample ID: S-088210-19-022916-SP-02 Matrix: SOIL

Table with 8 columns: Analyses, Result, PQL, Qual, Units, DF, Date Analyzed, Batch ID. Row 1: EPA METHOD 300.0: ANIONS, Chloride, 110, 30, mg/Kg, 20, 3/8/2016 8:12:32 PM, 24147. Analyst: LGT

Lab ID: 1603189-003 Collection Date: 2/29/2016 12:45:00 PM
Client Sample ID: S-088210-19-022916-SP-03 Matrix: SOIL

Table with 8 columns: Analyses, Result, PQL, Qual, Units, DF, Date Analyzed, Batch ID. Row 1: EPA METHOD 300.0: ANIONS, Chloride, 22, 7.5, mg/Kg, 5, 3/8/2016 8:49:47 PM, 24147. Analyst: LGT

Lab ID: 1603189-004 Collection Date: 2/29/2016 1:00:00 PM
Client Sample ID: S-088210-19-022916-SP-04 Matrix: SOIL

Table with 8 columns: Analyses, Result, PQL, Qual, Units, DF, Date Analyzed, Batch ID. Row 1: EPA METHOD 300.0: ANIONS, Chloride, ND, 7.5, mg/Kg, 1, 3/8/2016 9:14:36 PM, 24147. Analyst: LGT

Lab ID: 1603189-005 Collection Date: 2/29/2016 1:10:00 PM
Client Sample ID: S-088210-19-022916-SP-05 Matrix: SOIL

Table with 8 columns: Analyses, Result, PQL, Qual, Units, DF, Date Analyzed, Batch ID. Row 1: EPA METHOD 300.0: ANIONS, Chloride, ND, 7.5, mg/Kg, 5, 3/8/2016 9:39:25 PM, 24147. Analyst: LGT

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Table with 2 columns: Qualifiers and descriptions. Includes codes like *, D, H, ND, R, S, B, E, J, P, RL, W and their corresponding meanings. Page 1 of 3

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Short Fuse Fed #1

Lab Order: 1603189

Lab ID: 1603189-006 **Collection Date:** 2/29/2016 1:20:00 PM
Client Sample ID: S-088210-19-022916-SP-06 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	7.5		mg/Kg	5	3/8/2016 10:04:15 PM	24147

Lab ID: 1603189-007 **Collection Date:** 2/29/2016 1:30:00 PM
Client Sample ID: S-088210-19-022916-SP-07 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	350	30		mg/Kg	20	3/8/2016 10:41:29 PM	24147

Lab ID: 1603189-008 **Collection Date:** 2/29/2016 1:40:00 PM
Client Sample ID: S-088210-19-022916-SP-08 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	7.5		mg/Kg	5	3/8/2016 11:18:43 PM	24147

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603189

11-Mar-16

Client: GHD
Project: Short Fuse Fed #1

Sample ID	MB-24147	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24147	RunNo:	32667					
Prep Date:	3/8/2016	Analysis Date:	3/8/2016	SeqNo:	999625	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24147	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	24147	RunNo:	32667					
Prep Date:	3/8/2016	Analysis Date:	3/8/2016	SeqNo:	999626	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID	1603189-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	S-088210-19-022916	Batch ID:	24147	RunNo:	32667					
Prep Date:	3/8/2016	Analysis Date:	3/8/2016	SeqNo:	999628	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.8910	89.2	64.2	131			

Sample ID	1603189-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	S-088210-19-022916	Batch ID:	24147	RunNo:	32667					
Prep Date:	3/8/2016	Analysis Date:	3/8/2016	SeqNo:	999629	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.8910	89.3	64.2	131	0.0916	20	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Sample Log-In Check List

Client Name: GHD

Work Order Number: 1603189

RcptNo: 1

Received by/date: AG 03/03/16

Logged By: **Ashley Gallegos** 3/3/2016 9:50:00 AM AG

Completed By: **Ashley Gallegos** 3/3/2016 1:46:30 PM AG

Reviewed By: IO 03/03/16

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: GHD - Albuquerque

Billing Address: 621 Indian School Rd NE Ste 200

Albuquerque, NM, 87110

Phone #: 505-884-0672

Email or Fax #: Bernard.Bockisch@ghd.com

QC Package: Standard Level 4 (Full Validation)

Credentialed: NELAP Other

EDD (Type):

Turn-Around Time: Standard Rush

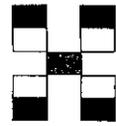
Project Name: Short Fuse Fed #1

Project #: 088210/19

Project Manager: Bernard Bockisch

Sampler: Stev Perez
On Ice: Yes No

Sample Temperature: 2.4 - 1.0 = 1.4°C



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides 300.0	Air Bubbles (Y or N)	
1-16	1155	Soil	S-088210-19-022916-SP-01	Hozglass-1	Ice	1603189-001														
	1220		S-088210-19-022916-SP-02			-002														
	1245		S-088210-19-022916-SP-03			-003														
	1300		S-088210-19-022916-SP-04			-004														
	1310		S-088210-19-022916-SP-05			-005														
	1320		S-088210-19-022916-SP-06			-006														
	1330		S-088210-19-022916-SP-07			-007														
	1340		S-088210-19-022916-SP-08			-008														

Relinquished by: Stev Perez 1-16 0820
 Received by: [Signature] 3/2/16 0820
 Relinquished by: [Signature]
 Received by: [Signature] 03/03/16 0950

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 01, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Short Fuse Fed 1

OrderNo.: 1605B43

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/24/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1605B43**

Date Reported: **6/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Short Fuse Fed 1

Lab Order: 1605B43

Lab ID: 1605B43-001
Client Sample ID: S-088210-19-052016-SP-01

Collection Date: 5/20/2016 12:32:00 PM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	340	30		mg/Kg	20	6/1/2016 12:45:41 AM	25584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605B43

01-Jun-16

Client: GHD
Project: Short Fuse Fed 1

Sample ID MB-25584	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 25584		RunNo: 34591							
Prep Date: 5/31/2016	Analysis Date: 5/31/2016		SeqNo: 1066763		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID LCS-25584	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 25584		RunNo: 34591							
Prep Date: 5/31/2016	Analysis Date: 5/31/2016		SeqNo: 1066764		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1605B43

RcptNo: 1

Received by/date:	<i>JA</i>	<i>05/24/16</i>	
Logged By:	Lindsay Mangin	5/24/2016 9:40:00 AM	<i>[Signature]</i>
Completed By:	Lindsay Mangin	5/25/2016 9:58:49 AM	<i>[Signature]</i>
Reviewed By:	<i>IO</i>	<i>05/25/16</i>	

Chain of Custody

- Custody seals intact on sample bottles? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0° C? Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

Chain-of-Custody Record

Client: GHD - Albuquerque

Mailing Address: 6121 Indian School Rd NE

Albuquerque, NM, 87110

Phone #: 505-884-0672

Email or Fax#: Bernard.Bockisch@ghd.com

QC Package:

Standard Level 4 (Full Validation)

Creditation: NELAP Other

EDD (Type) _____

Turn-Around Time:

Standard Rush _____

Project Name: North ^{SP} ~~town~~ Short Fuse Fed #1

Project #: 088210/19

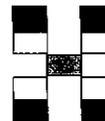
Project Manager: Bernard Bockisch

505-280-0572

Sampler: Steve Perez

On Ice: Yes No

Sample Temperature: 3.6 - 1.0 CF = 2.6



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
5/16	1255					1605B43													
5/16	1232	Soil	S-088210-19-052016SP-01	4oz glass-1	ICE	-001													

X for Chloride 300.0

Relinquished by: Steve Perez Date: 5/23/16 Time: 0931

Received by: Steve Perez

Relinquished by: Steve Perez Date: 05/24/16 Time: 0940

Received by: Steve Perez

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 22, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Short Fuse Fed 1

OrderNo.: 1606A47

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/17/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1606A47

Date Reported: 6/22/2016

CLIENT: GHD

Client Sample ID: S-088210-19-061616-SP-01

Project: Short Fuse Fed 1

Collection Date: 6/16/2016 1:10:00 PM

Lab ID: 1606A47-001

Matrix: SOIL

Received Date: 6/17/2016 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	500	30		mg/Kg	20	6/22/2016 6:11:48 AM	25980

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1606A47

22-Jun-16

Client: GHD
Project: Short Fuse Fed 1

Sample ID	MB-25980	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	25980	RunNo:	35049					
Prep Date:	6/21/2016	Analysis Date:	6/22/2016	SeqNo:	1085079	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-25980	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	25980	RunNo:	35049					
Prep Date:	6/21/2016	Analysis Date:	6/22/2016	SeqNo:	1085080	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: **GHD** Work Order Number: **1606A47** RcptNo: **1**

Received by/date: *SA* *06/17/16*
 Logged By: **Lindsay Mangin** **6/17/2016 9:40:00 AM** *Jamie Hagan*
 Completed By: **Lindsay Mangin** **6/20/2016 5:52:36 AM** *Jamie Hagan*
 Reviewed By: *TO* *06/20/16*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No Checked by:

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Analytical Report 532696

for
GHD Services, INC- Midland

Project Manager: Bernie Bockisch

Short Fuse-Federal #1

088210-19

11-JUL-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



11-JUL-16

Project Manager: **Bernie Bockisch**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **532696**
Short Fuse-Federal #1
Project Address: Lea County, NM

Bernie Bockisch:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 532696. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 532696 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-088210-19-062916-JPS-GHD1 30-31'	S	06-29-16 16:08	30 - 31 ft	532696-001
S-088210-19-062916-JPS-GHD1 35-36'	S	06-29-16 16:16	35 - 36 ft	532696-002
S-088210-19-062916-JPS-GHD1 40-41'	S	06-29-16 16:25	40 - 41 ft	532696-003



CASE NARRATIVE



Client Name: GHD Services, INC- Midland

Project Name: Short Fuse-Federal #1

Project ID: 088210-19
Work Order Number(s): 532696

Report Date: 11-JUL-16
Date Received: 06/30/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: **S-088210-19-062916-JPS-GHD1 30-31'** Matrix: Soil Date Received: 06.30.16 15.19
 Lab Sample Id: 532696-001 Date Collected: 06.29.16 16.08 Sample Depth: 30 - 31 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MNR % Moisture: 6.44
 Analyst: MNR Date Prep: 07.07.16 18.30 Basis: Dry Weight
 Seq Number: 997751

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.4	10.7	mg/kg	07.07.16 23.52		1

GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: S-088210-19-062916-JPS-GHD1 35-36'	Matrix: Soil	Date Received: 06.30.16 15.19
Lab Sample Id: 532696-002	Date Collected: 06.29.16 16.16	Sample Depth: 35 - 36 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MNR		% Moisture: 4.64
Analyst: MNR	Date Prep: 07.07.16 18.30	Basis: Dry Weight
Seq Number: 997751		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.6	10.5	mg/kg	07.07.16 23.59		1



Certificate of Analytical Results 532696



GHD Services, INC- Midland, Midland, TX

Short Fuse-Federal #1

Sample Id: **S-088210-19-062916-JPS-GHD1 40-41'** Matrix: Soil Date Received: 06.30.16 15.19
 Lab Sample Id: 532696-003 Date Collected: 06.29.16 16.25 Sample Depth: 40 - 41 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MNR % Moisture: 7.27
 Analyst: MNR Date Prep: 07.07.16 18.30 Basis: Dry Weight
 Seq Number: 997751

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.7	10.8	mg/kg	07.08.16 00.07		1

GHD Services, INC- Midland
Short Fuse-Federal #1

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751

Matrix: Solid

Prep Method: E300P

MB Sample Id: 710742-1-BLK

LCS Sample Id: 710742-1-BKS

Date Prep: 07.07.16

LCSD Sample Id: 710742-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	236	94	247	99	90-110	5	20	mg/kg	07.07.16 22:26	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 532686-001

MD Sample Id: 532686-001 D

Date Prep: 07.07.16

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	<10.0	0	20	mg/kg	07.08.16 19:13	U

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 532697-003

MD Sample Id: 532697-003 D

Date Prep: 07.07.16

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	<10.0	0	20	mg/kg	07.08.16 00:38	U

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 532686-001

MS Sample Id: 532686-001 S

Date Prep: 07.07.16

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	<10.0	250	224	90	80-120	mg/kg	07.08.16 19:21	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 997751

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 532697-003

MS Sample Id: 532697-003 S

Date Prep: 07.07.16

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	<10.0	250	223	89	80-120	mg/kg	07.08.16 00:46	

Analytical Method: Percent Moisture

Seq Number: 997692

Matrix: Solid

MB Sample Id: 997692-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	ND	%	07.06.16 18:00	



QC Summary 532696



GHD Services, INC- Midland

Short Fuse-Federal #1

Analytical Method: Percent Moisture

Seq Number: 997692

Parent Sample Id: 532694-001

Matrix: Soil

MD Sample Id: 532694-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	15.7	15.1	4	20	%	07.06.16 18:00	

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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4147 Greenbriar Dr, Stafford, TX 77477	Phone	Fax
9701 Harry Hines Blvd , Dallas, TX 75220	(281) 240-4200	(281) 240-4280
5332 Blackberry Drive, San Antonio TX 78238	(214) 902 0300	(214) 351-9139
1211 W Florida Ave, Midland, TX 79701	(210) 509-3334	(210) 509-3335
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(432) 563-1800	(432) 563-1713
	(602) 437-0330	

Client: GHD Services, INC- Midland

Date/ Time Received: 06/30/2016 03:19:00 PM

Work Order #: 532696

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8
#2 *Shipping container in good condition?	N/A
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Mary Alexis Negrón Date: 07/01/2016
 Mary Negrón

Checklist reviewed by: Kelsey Brooks Date: 07/01/2016
 Kelsey Brooks

Appendix B

Waste Manifests

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Watson
#104

NON-HAZARDOUS WASTE MANIFEST

NO 108074

1. PAGE ___ OF ___

2. TRAILER NO. #104

G E N E R A T O R	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. (432) 688-3705		4. ADDRESS 5509 Champion Dr. CITY STATE ZIP Midland TX. 79706			5. PICK-UP DATE 4/8/2015		6. TNRCC I.D. NO.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: a. Non-Regulated, Non Hazardous Waste b. c.					8. CONTAINERS No. Type 1 CM		9. TOTAL QUANTITY	10. UNIT Wt/Vol. Y	11. TEXAS WASTE ID #
A T T R I B U T E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1 <i>TOTAL 60500</i>					13. WASTE PROFILE NO.				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. KIN SLAUGHTER 575-887-4048									
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC										
PRINTED/TYPED NAME					SIGNATURE			DATE		
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: <u>WATSON CONSTRUCTION</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>ZANE KURTZ</u> EMERGENCY PHONE: <u>(432) 425-2023</u>					17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <u>Isabel Segovia</u> SIGNATURE <u>[Signature]</u> DATE <u>4/8/2015</u>					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			AUTHORIZED SIGNATURE <u>[Signature]</u>			CELL NO. _____		DATE 4/8/2015	TIME 9:00
	20. COMMENTS			21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
D I S P O S I T O R	Lea Land, LLC			ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS						

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

WATSON

NON-HAZARDOUS WASTE MANIFEST

NO **108121**

1. PAGE OF

2. TRAILER NO. *#104*

G	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. <i>(432) 686-3705</i>	4. ADDRESS 5508 Champion Dr. CITY STATE ZIP Midland TX. 79706	5. PICK-UP DATE 4/10/2015		
			6. TNRCC I.D. NO.		
E N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS	9. TOTAL	10. UNIT
	a. Non-Regulated, Non Hazardous Waste		No. Type	QUANTITY	Wt/Vol.
	b.		1 CM		Y
	c.				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1		13. WASTE PROFILE NO.		
	<i>TOTAL @ 42300</i>				
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME KIN SLAUGHTER	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME	SIGNATURE	DATE		
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: <u>WATSON CONSTRUCTION</u>		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: ZANE KURTZ EMERGENCY PHONE: (432) 425-2023		IN CASE OF EMERGENCY CONTACT:		
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME <i>Jacob Seguin</i>		PRINTED/TYPED NAME _____			
SIGNATURE <i>Jacob Seguin</i> DATE 4/10/2015		SIGNATURE _____ DATE _____			
D I S P O S I T O R Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.	DATE 4/10/2015	TIME 9:15	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

LSDR
#006

NON-HAZARDOUS WASTE MANIFEST

NO **108122**

1. PAGE OF

2. TRAILER NO.

G E	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. (432) 686-3705	4. ADDRESS 5508 Champion Dr. CITY STATE ZIP Midland TX. 79706	5. PICK-UP DATE 4/10/2015			
	6. TNRCC I.D. NO.					
N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste		1 CM		Y	
	b.					
	c.					
A T O R	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1		13. WASTE PROFILE NO.			
	TOTAL = 124,100					
14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
NAME KIN SLAUGHTER		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
PRINTED/TYPED NAME			SIGNATURE		DATE	
T R A N S P O R T E R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: WATSON CONSTRUCTION			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: ZANE KURTZ			IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE: (432) 425-2023			EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME RAY CHAPMAN			PRINTED/TYPED NAME _____			
SIGNATURE <i>Ray Chapman</i> DATE 4/10/2015			SIGNATURE _____ DATE _____			
D I S P O S I T A L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE <i>[Signature]</i>			CELL NO. _____		DATE 4/10/2015	
					TIME 1030	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Watson

NON-HAZARDOUS WASTE MANIFEST

NO **108156**

1. PAGE OF

2. TRAILER NO. **# 104**

G	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. (432) 686-3705	4. ADDRESS 5509 Champion Dr. CITY STATE ZIP Midland TX. 79708	5. PICK-UP DATE 4/14/2015		
				6. TNRCC I.D. NO.	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	a. Non-Regulated, Non Hazardous Waste		1	CM	Y
	b.				
	c.				
R	d. WT : 27,180 26,180				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1			13. WASTE PROFILE NO.	
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME KIN SLAUGHTER	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME		SIGNATURE		DATE
T	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: WATSON CONSTRUCTION		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: ZANE KURTZ		IN CASE OF EMERGENCY CONTACT:		
R	EMERGENCY PHONE: (432) 425-2023		EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME Isabel Segovia		PRINTED/TYPED NAME		
	SIGNATURE Isabel Segovia DATE 4/14/2015		SIGNATURE DATE		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
A	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 4/14/2015	TIME 10:00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

S DR

NON-HAZARDOUS WASTE MANIFEST

NO 108163

1. PAGE ___ OF ___

2. TRAILER NO. #006

G E	3. COMPANY NAME E.O.G. RESOURCES PHONE NO. (432) 888-3705	4. ADDRESS 5509 Champion Dr. CITY STATE ZIP Midland TX. 79708	5. PICK-UP DATE 4/14/2015
			6. TNRCC I.D. NO.

N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
		No.	Type			
	a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
	b.					
	c.					
	d. WT: 44420					

A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
---	---	-----------------------

T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME KIN SLAUGHTER	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R	PRINTED/TYPED NAME	SIGNATURE	DATE
---	--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: WATSON CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: ZANE KURTZ EMERGENCY PHONE: (432) 425-2023	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
--	---	---

	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: <u>RAE CHAPMAN</u> SIGNATURE: <u>[Signature]</u> DATE: <u>4/14/2015</u>	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: _____ SIGNATURE: _____ DATE: _____
--	--	---

D I S P O S I T O R Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	------------------------

	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

	AUTHORIZED SIGNATURE <u>[Signature]</u>	CELL NO.	DATE 4/14/2015	TIME 12:50
--	--	----------	-------------------	---------------

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST

NO **110355**

1. PAGE OF

2. TRAILER NO. **#006**

G	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5509 Champion Dr CITY STATE ZIP		5. PICK-UP DATE 8/21/2015	
	PHONE NO. (432) 888-3705			6. TRKCC I.D. NO.	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	a. Non-Regulated, Non Hazardous Waste				
N	b. 38140				
	c.				
R	d. WT: 40040 38.060!				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1			13. WASTE PROFILE NO. F-116240	
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME		PHONE NO		24-HOUR EMERGENCY NO.
T					
O	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	16. PRINTED/TYPED NAME CO. MAN: ZANE KURTZ		SIGNATURE		
R	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: SDR ENTERPRISES LLC		NAME:		
T	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SHANNON		IN CASE OF EMERGENCY CONTACT:		
R	EMERGENCY PHONE: (575) 441-7330		EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
S	PRINTED/TYPED NAME x [Signature]		PRINTED/TYPED NAME _____		
	SIGNATURE x [Signature] DATE 8/21/2015		SIGNATURE _____ DATE _____		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180,		PHONE: 575-887-4048
			30 Miles East of Carlsbad, NM		
I	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
S	AUTHORIZED SIGNATURE [Signature]		CELL NO. _____		DATE 8/21/2015
					TIME 9:05

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST NO 110356 1. PAGE ___ OF ___ 2. TRAILER NO. #002

G	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5509 Champion Dr.	5. PICK-UP DATE 8/21/2015			
	PHONE NO. (432) 696-3705	CITY STATE ZIP Midland TX. 79706	6. TNRCC I.D. NO.			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste		1	CM		Y
	b.					
R	c.					
	dWT : 23940.					
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
T	NAME		PHONE NO	24-HOUR EMERGENCY NO.		
			575-887-4048			
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME CO. MAN: ZANE KURTZ		SIGNATURE		DATE	
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
	NAME: SDR ENTERPRSES LLC		NAME:			
	TEXAS I.D. NO.		TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: SHANNON		IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE: (575) 441-7330		EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME James Dulin		PRINTED/TYPED NAME _____				
SIGNATURE James Dulin DATE 8/21/2015		SIGNATURE _____ DATE _____				
D F I S P O S I T I O N A L L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE Murchison		CELL NO.	DATE 8/21/2015	TIME 9:30.		

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST

NO **110318**

1. PAGE OF

2. TRAILER NO. # **00M**

G E N E R A T O R	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5509 Champion Dr.			5. PICK-UP DATE 8/20/2015	
	PHONE NO. (432) 886-3705	CITY Midland	STATE TX.	ZIP 79706	6. TNRCC I.D. NO.	
N E R A T I O N A L	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated. Non Hazardous Waste				1	CM
	b. 23820					
	c.					
	d. WT : 20.640 . 25.000					
A T T R I B U T E S	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1				13. WASTE PROFILE NO.	
	T-69.460					
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
O R I G I N A L	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME CO. MAN: ZANE KURTZ			SIGNATURE		DATE
T R A N S P O R T E R S	16. TRANSPORTER (1) SDR ENTERPRISES LLC			17. TRANSPORTER (2)		
	NAME:			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SHANNON (575) 441-7330			IN CASE OF EMERGENCY CONTACT:		
R E C E I V E R	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME <i>[Signature]</i>			PRINTED/TYPED NAME _____		
D I S P O S I T I O N A L F A C I L I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO. _____		DATE 8/20/2015	TIME 10:10

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SIDB

NON-HAZARDOUS WASTE MANIFEST

NO **112320**

1. PAGE OF

2. TRAILER NO. **#006**

G E N E R A T O R	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5508 Champion Dr.	5. PICK-UP DATE 11/25/2015
	PHONE NO. (432) 886-3705	CITY STATE ZIP Midland TX. 79708	6. TNRCC I.D. NO.

N E R E A R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste	1 CM		Y	
	b.				
	c.				

Wt: 40,940² 41,920³ 43,840

A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
---	--	-----------------------

T @ 126,700

T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME KIN SLAUGHTER	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R	PRINTED/TYPED NAME	SIGNATURE	DATE
---	--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: SDR ENTERPRISE LLC	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: SHANNON	IN CASE OF EMERGENCY CONTACT:

	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME <i>Carol Roveh</i>	PRINTED/TYPED NAME _____
	SIGNATURE <i>Carol Roveh</i> DATE 11/25/2015	SIGNATURE _____ DATE _____

D I S P O S I T A L Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	-------------------------------

	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

	AUTHORIZED SIGNATURE <i>Antes Gonzalez</i>	CELL NO.	DATE 11/25/2015	TIME 11:00
--	---	----------	---------------------------	----------------------

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST

NO **112418**

1. PAGE ___ OF ___

2. TRAILER NO. **#004**

G E	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5508 Champion Dr.	5. PICK-UP DATE 12/3/2015
	PHONE NO. (432) 686-3705	CITY STATE ZIP Midland TX. 79706	6. TNRCC I.D. NO.

N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
	b.					
	c.					

d. **WWT 42,080 @ 39,380 @ 39,740**

12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
--	-----------------------

T @ 121,200

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME KIN SLAUGHTER	PHONE NO 575-987-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

16. TRANSPORTER (1)

NAME: **SDR ENTERPRISE LLC**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **SHANNON**

EMERGENCY PHONE: **(575) 441-7330**

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME *[Signature]*

SIGNATURE *[Signature]* DATE **12/3/2015**

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME _____

SIGNATURE _____ DATE _____

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---------------	---	-------------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO. _____	DATE 12/3/2015	TIME 9:45
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST

NO **112439**

1. PAGE ___ OF ___

2. TRAILER NO. # **006**

G	3. COMPANY NAME E.O.G Resources	4. ADDRESS 6600 Champion Dr. Midland TX. 79708			5. PICK-UP DATE 12/4/2015				
	PHONE NO. (432) 688-3705				6. TNRCC I.D. NO.				
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS	9. TOTAL	10. UNIT	11. TEXAS	
	a. Non-Regulated, Non Hazardous Waste				No. 1	Type CM	QUANTITY	Wt/Vol. Y	WASTE ID #
	b.								
	c.								
R	d. 40,140 @ 39,940 @ 43,860								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1					13. WASTE PROFILE NO.			
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME KIN SLAUGHTER		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.				
O	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	PRINTED/TYPED NAME				SIGNATURE			DATE	
T	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
	NAME: SDR ENTERPRISE LLC				NAME:				
	TEXAS I.D. NO.				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: SHANNON				IN CASE OF EMERGENCY CONTACT:				
R	EMERGENCY PHONE: (575) 441-7330				EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material								19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME Carl Roebke				PRINTED/TYPED NAME _____				
	SIGNATURE Carl Roebke DATE 12/4/2015				SIGNATURE _____ DATE _____				
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico				20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
L	AUTHORIZED SIGNATURE Santos Gonzalez				CELL NO.		DATE 12/4/2015		TIME 9:05

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Carranza

NON-HAZARDOUS WASTE MANIFEST NO 112462 1. PAGE OF 2. TRAILER NO. # 27

G E N E R A T O R	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5508 Champion Dr.	5. PICK-UP DATE 12/7/2015
	PHONE NO. (432) 686-3705	CITY STATE ZIP Midland TX 79706	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WWT 35,280 @ 4,080 @ 4,900					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
T @ 118,260	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME KIN SLAUGHTER	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.
------------------------------	---------------------------------	-----------------------

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)	
	NAME: SDR ENTERPRISE LLC	NAME:	
	TEXAS I.D. NO.	TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SHANNON	IN CASE OF EMERGENCY CONTACT:	
EMERGENCY PHONE: (575) 441-7330	EMERGENCY PHONE:		
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
PRINTED/TYPED NAME: Alisa Carranza		PRINTED/TYPED NAME: _____	
SIGNATURE: <i>Alisa Carranza</i> DATE: 12/7/2015		SIGNATURE: _____ DATE: _____	

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
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PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>Santos Gonzalez</i>	CELL NO.	DATE 12/7/2015	TIME 9:00
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Carranza

NON-HAZARDOUS WASTE MANIFEST NO 112508 1. PAGE OF 2. TRAILER NO. #27

G E	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5508 Champion Dr.	5. PICK-UP DATE 12/9/2015
	PHONE NO. (432) 888-3705	CITY STATE ZIP Midland TX. 79708	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. 36,920 @ 42,360 @ 35,520					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
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14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME KIN SLAUGHTER	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)	
	NAME: SDR ENTERPRISE LLC	NAME:	
	TEXAS I.D. NO.	TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SHANNON	IN CASE OF EMERGENCY CONTACT:	
EMERGENCY PHONE: (575) 441-7330	EMERGENCY PHONE:		
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
PRINTED/TYPED NAME Chris Carranza	PRINTED/TYPED NAME _____		
SIGNATURE Chris Carranza DATE 12/9/2015	SIGNATURE _____ DATE _____		

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
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PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE Ante Gonzalez	CELL NO.	DATE 12/9/2015	TIME 9:05
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple M

NON-HAZARDOUS WASTE MANIFEST

NO **112509**

1. PAGE OF

2. TRAILER NO. # **150**

G E	3. COMPANY NAME E.O.G Resources	4. ADDRESS 5600 Champion Dr.			5. PICK-UP DATE 12/9/2015
	PHONE NO. (432) 888-3705	CITY Midland	STATE TX.	ZIP 79708	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT: 45,280 @ 44,640					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	13. WASTE PROFILE NO.
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14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME KIN SLAUGHTER	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: SDR ENTERPRISE LLC TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
--	---	--

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME E.T. SIGNATURE <i>[Signature]</i> DATE 12/9/2015	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
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Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
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PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature: Santos Gonzalez]</i>	CELL NO.	DATE 12/9/2015	TIME 9:10
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