APPROVED
By Olivia Yu at 4:06 pm, Aug 14, 2018

NMOCD approves of the delineation completed for 1RP-4935.

JULY
2018

State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division (OCD) Stage II Remediation Plan

Prepared For
Venable's Construction
West Texas / New Mexico Division
1315 West County Road 114
Midland, TX 79706

Case Number: 1RP-4935

Subject Property
North Hobbs Satellite 31 East CO2
32.71476°, -103.17909°

Prepared By:

R2M ENGINEERING

Civil · Environmental · Safety
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Table of Contents

1.0 Summary

A release of produced water and hydrocarbon mix occurred on the North Hobbs Satellite 31 East CO2 facility located in Unit J, Section 29, Township 18 South, Range 38 East, in Lea County, Hobbs, New Mexico on January 9, 2018, with the latitude of 32.714805° and longitude of -103.178939°. The release was caused by a 3rd-party line strike that resulted in the release of 150 barrels (bbls) of produced water and 10 bbls of oil. A volume of 150 bbls was recovered by vacuum truck shortly after the release occurred, to remedy the situation. The release's surficial flow was contained by the excavated trench. Overspray from the release was directed by strong winds to the northwest during the release. Stockpiles of material that had been excavated during construction of the trench had covered the ground next to the trench. The stockpiles prevented overspray from impacting the ground's natural surface near the opening of the trench. A natural depression located where overspray had contacted the ground surface allowed liquids to collect and be contained. Pooled liquids in the depression were then removed by vacuum truck shortly after the release had occurred. Staining is present where overspray had contacted the surface. This area is shown in Appendix B. The site's surficial runoff gradient is to the east and southeast, with a gentle slope of approximately 10-15 ft. to the mile. Site elevation indicates a gentle drop of elevation from 3,650 ft. to the northwest to an elevation of 3,639 ft. to the southeast.

The first round of sampling was conducted Wednesday, March 28, 2018; the second and third rounds of sampling were conducted April 2-3, 2018. These rounds are detailed in this remediation plan dated May 2018.

On May 25, 2018, the fourth round of sampling was conducted. Using GPS coordinates, soil boring locations were marked and additional samples were taken from thirteen borings (SB01-SB12 and SB17). The first figure in the appendices indicates the locations of the sampling locations. Samples were collected in 1-foot intervals below ground surface (bgs). Additionally, three grab samples were collected from the overspray area depicted in Appendix B. Material scrapped from the area is placed on poly-liner off of the affected area. Two grab samples from the stockpiles were collected. Samples were sent to Xenco Laboratories, a certified testing lab located in Lubbock, Texas. Xenco conducted all analytical testing for this case. These test results are found on the first table of the Testing Summary in the appendices and in Lab Report 587348 in Appendix C.

On May 31, 2018, the fifth round of sampling was conducted. Samples were collected from the thirteen soil borings in 1-foot intervals for further delineation. Three samples were collected in the trench area between SB1 and SB2, SB2 and SB3. The trench backfill material was removed to expose base of the trench. Samples were collected from 0-1 foot bgs from the base of trench, 6-7 foot below grade, by hand auger. Loose material in the open excavation was removed by means of backhoe to hard rock to where use of hammer attachment is needed to advance. Confirmation samples were taken from the approximate 10-foot side walls and bottom of the open excavation depicted in Appendix B. The materials removed were added to the stockpiles on location. Samples were taken from stockpiles and materials in roll-off containment. These test results are found on the second page of the Testing Summary in the appendices and in Lab Report 587854 in Appendix C.

On June 26, 2018, the sixth round of sampling was conducted. Using GPS coordinates, soil boring locations were marked and additional samples were taken from SB-10. Samples were collected in 1-foot intervals below ground surface (bgs) to 4 feet. Additionally, two shallow soil borings (SB-10A and SB-10B) were collected in 1- foot intervals to 2 feet bgs for further surface delineation near SB-10 and are depicted in Appendix B. Three grab samples (SF-4-6) were collected from the overspray area depicted in Appendix B. Additional samples were taken from the stockpiles on poly-liner to be analyzed. Samples were sent to Xenco Laboratories, and these test results are found on the third table of the Testing Summary in the appendices and in Lab Report 590437 in Appendix C.

2.0 Abatement

2.1 Proposed Soil Remediation

Based on the results of this assessment the following work is proposed. Venable's Construction will contour and restore property vegetation during the reseeding phase of the pipeline project right-of-way, later discussed. A map of the proposed seeding area is provided in Appendix B.

2.2 Regulatory Requirements

New Mexico Oil Conservation Division evaluates each release of produced water or oil according to the Recommended Remediation Action Levels (RRAL). NMOCD uses RRALs as a ranking system when evaluating each spill in terms of Depth to Groundwater, Distance to Surface Water, and Distance to Wellhead Protection Area.

The ranking score for this site is 1**0** based on the following:

Depth to ground water: (50'-100')	**10**
Wellhead Protection Area: > 1000'	**0**
Distance to Surface Water Body: > 1000'	**0**

2.3 Reseeding

Seeding of the location is recommended for June or July 2018. Seed will be planted a quarter-to half-inch deep using a disc type or similar rangeland drill sufficient to accommodate variations in seed sizes. If the broadcast method is exacted, seeding rates should be doubled. Seeding can be accomplished as early as late May 2018 given all dirt work for the location is stabilized. Soil in this area will be tilled to reduce compaction. Seed-bed preparation will be performed to provide a hospitable environment for germinating seed by breaking up impermeable soil layers that have formed and increasing void spaces for air and water. Ground shall be roughed-up prior to planting, by raking, harrowing or other methods. The seed mixture used will be approved by the New Mexico State Land office.

2.4 Backfill Request

Based on laboratory analytical results and field activities conducted to date, R2M requests permission on behalf of Venable's Construction to backfill the excavated area with locally-sourced and non-impacted material. Excavation backfill will be compacted and contoured to meet the needs of the facility.

3.0 Signature

This report has been prepared for the sole benefit of Venable's Construction. The report may not be relied upon by any other person or entity without the express written consent of R2M and Venable's Construction.

Environmental Professional

John E. Rantz, P.E.
Printed Name of Professional Engineer

Signature

07/26/2018
Date

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CIVIL • ENVIRONMENTAL • SAFETY

4.0 Appendix

Appendix A

Testing Summary

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/1/2018
Testing By: Xenco Labratory, Lubbock, TX

Chloride						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587348-001	SB-17(0"-6")	5/25/2018	SOIL	268	mg/Kg	---
587348-002	SB-17(6"-12")	5/25/2018	SOIL	215	mg/Kg	---
587348-005	SB-8(0"-6")	5/25/2018	SOIL	314	mg/Kg	---
587348-006	SB-8(6"-18")	5/25/2018	SOIL	296	mg/Kg	---
587348-009	SB-9(0-12)	5/25/2018	SOIL	18.7	mg/Kg	---
587348-010	SB-9(1-2)	5/25/2018	SOIL	3.44	mg/Kg	---
587348-011	SB-6(0-1)	5/25/2018	SOIL	244	mg/Kg	---
587348-012	SB-6(1-2)	5/25/2018	SOIL	235	mg/Kg	---
587348-014	SB-7(0-1)	5/25/2018	SOIL	124	mg/Kg	---
587348-015	SB-7(1-2)	5/25/2018	SOIL	34	mg/Kg	---
587348-017	SB-5(0-1)	5/25/2018	SOIL	172	mg/Kg	---
587348-018	SB-5(1-2)	5/25/2018	SOIL	334	mg/Kg	---
587348-020	SB-10(0-1)	5/25/2018	SOIL	223	mg/Kg	---
587348-021	SB-10(1-2)	5/25/2018	SOIL	15.2	mg/Kg	---
587348-022	SB-11(0-1)	5/25/2018	SOIL	17.2	mg/Kg	---
587348-023	SB-11(1-2)	5/25/2018	SOIL	9.4	mg/Kg	---
587348-024	SB-12(0-1)	5/25/2018	SOIL	4.44	mg/Kg	---
587348-025	SB-12(1-2)	5/25/2018	SOIL	2.55	mg/Kg	---
587348-026	SB-1(0-1)	5/25/2018	SOIL	168	mg/Kg	---
587348-027	SB-1(1-2)	5/25/2018	SOIL	473	mg/Kg	---
587348-028	SB-2(0-1)	5/25/2018	SOIL	495	mg/Kg	---
587348-029	SB-2(1-2)	5/25/2018	SOIL	728	mg/Kg	---
587348-030	SB-3(0-1)	5/25/2018	SOIL	225	mg/Kg	---
587348-031	SB-3(1-2)	5/25/2018	SOIL	93.6	mg/Kg	---
587348-032	SB-4(0-1)	5/25/2018	SOIL	1.86	mg/Kg	---
587348-033	SB-4(1-2)	5/25/2018	SOIL	30.1	mg/Kg	---
587348-034	erspray Stockpil	5/25/2018	SOIL	578	mg/Kg	---
587348-035	erspray Stockpil	5/25/2018	SOIL	206	mg/Kg	---
587348-036	Surface 1(0-6)	5/25/2018	SOIL	574	mg/Kg	---
587348-037	Surface 2(0-6)	5/25/2018	SOIL	676	mg/Kg	---
587348-038	Surface 3 (0-6)	5/25/2018	SOIL	1110	mg/Kg	---

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/1/2018
Testing By: Xenco Labratory, Lubbock, TX

Total TPH						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587348-001	SB-17(0"-6")	5/25/2018	SOIL	47.7	mg/Kg	---
587348-002	SB-17(6"-12")	5/25/2018	SOIL	0	mg/Kg	---
587348-005	SB-8(0"-6")	5/25/2018	SOIL	330	mg/Kg	---
587348-006	SB-8(6"-18")	5/25/2018	SOIL	246	mg/Kg	---
587348-009	SB-9(0-1')	5/25/2018	SOIL	55.5	mg/Kg	---
587348-010	SB-9(1-2)	5/25/2018	SOIL	49.7	mg/Kg	---
587348-011	SB-6(0-1)	5/25/2018	SOIL	253	mg/Kg	---
587348-012	SB-6(1-2)	5/25/2018	SOIL	337	mg/Kg	---
587348-014	SB-7(0-1)	5/25/2018	SOIL	116	mg/Kg	---
587348-015	SB-7(1-2)	5/25/2018	SOIL	73.8	mg/Kg	---
587348-017	SB-5(0-1)	5/25/2018	SOIL	397	mg/Kg	---
587348-018	SB-5(1-2)	5/25/2018	SOIL	975	mg/Kg	---
587348-020	SB-10(0-1)	5/25/2018	SOIL	1090	mg/Kg	---
587348-021	SB-10(1-2)	5/25/2018	SOIL	94	mg/Kg	---
587348-022	SB-11(0-1)	5/25/2018	SOIL	51	mg/Kg	---
587348-023	SB-11(1-2)	5/25/2018	SOIL	50.4	mg/Kg	---
587348-024	SB-12(0-1)	5/25/2018	SOIL	37.6	mg/Kg	---
587348-025	SB-12(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-026	SB-1(0-1)	5/25/2018	SOIL	62.9	mg/Kg	---
587348-027	SB-1(1-2)	5/25/2018	SOIL	93.9	mg/Kg	---
587348-028	SB-2(0-1)	5/25/2018	SOIL	147	mg/Kg	---
587348-029	SB-2(1-2)	5/25/2018	SOIL	100	mg/Kg	---
587348-030	SB-3(0-1)	5/25/2018	SOIL	26.7	mg/Kg	---
587348-031	SB-3(1-2)	5/25/2018	SOIL	255	mg/Kg	---
587348-032	SB-4(0-1)	5/25/2018	SOIL	30.9	mg/Kg	---
587348-033	SB-4(1-2)	5/25/2018	SOIL	52.2	mg/Kg	---
587348-034	erspray Stockpil	5/25/2018	SOIL	1910	mg/Kg	---
587348-035	erspray Stockpil	5/25/2018	SOIL	1390	mg/Kg	---
587348-036	Surface 1(0-6)	5/25/2018	SOIL	221	mg/Kg	---
587348-037	Surface 2(0-6)	5/25/2018	SOIL	457	mg/Kg	---
587348-038	Surface 3(0-6)	5/25/2018	SOIL	566	mg/Kg	---

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/1/2018
Testing By: Xenco Labratory, Lubbock, TX

BTEX						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587348-001	SB-17(0"-6")	5/25/2018	SOIL	0	mg/Kg	---
587348-002	SB-17(6"-12")	5/25/2018	SOIL	0	mg/Kg	---
587348-005	SB-8(0"-6")	5/25/2018	SOIL	0	mg/Kg	---
587348-006	SB-8(6"-18")	5/25/2018	SOIL	0	mg/Kg	---
587348-009	SB-9(0-12)	5/25/2018	SOIL	0	mg/Kg	---
587348-010	SB-9(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-011	SB-6(0-1)	5/25/2018	SOIL	0.00473	mg/Kg	---
587348-012	SB-6(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-014	SB-7(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-015	SB-7(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-017	SB-5(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-018	SB-5(1-2)	5/25/2018	SOIL	0.000717	mg/Kg	---
587348-020	SB-10(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-021	SB-10(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-022	SB-11(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-023	SB-11(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-024	SB-12(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-025	SB-12(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-026	SB-1(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-027	SB-1(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-028	SB-2(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-029	SB-2(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-030	SB-3(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-031	SB-3(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-032	SB-4(0-1)	5/25/2018	SOIL	0	mg/Kg	---
587348-033	SB-4(1-2)	5/25/2018	SOIL	0	mg/Kg	---
587348-034	erspray Stockpil	5/25/2018	SOIL	0	mg/Kg	---
587348-035	erspray Stockpil	5/25/2018	SOIL	0	mg/Kg	---
587348-036	Surface 1(0-6)	5/25/2018	SOIL	0.00234	mg/Kg	---
587348-037	Surface 2(0-6)	5/25/2018	SOIL	0.000896	mg/Kg	---
587348-038	Surface 3 (0-6)	5/25/2018	SOIL	0.00333	mg/Kg	---

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/15/2018
Testing By: Xenco Labratory, Lubbock, TX

Chloride						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587854-001	Con 2001	5/31/2018	SOIL	592	mg/Kg	---
587854-003	Con 2002	5/31/2018	SOIL	11.7	mg/Kg	---
587854-005	Con 2003	5/31/2018	SOIL	7.65	mg/Kg	---
587854-007	Con 2004	5/31/2018	SOIL	884	mg/Kg	---
587854-012	SB-2.2	5/31/2018	SOIL	13.2	mg/Kg	---
587854-013	SB-2.3	5/31/2018	SOIL	17.6	mg/Kg	---
587854-014	SB-2.4	5/31/2018	SOIL	35.8	mg/Kg	---
587854-023	Stockpile 3	5/31/2018	SOIL	477	mg/Kg	---
587854-024	Stockpile 4	5/31/2018	SOIL	65.4	mg/Kg	---
587854-025	Pit Bottom	5/31/2018	SOIL	10.6	mg/Kg	---
587854-026	SW Confirmation 0-1	5/31/2018	SOIL	1.64	mg/Kg	---
587854-027	SW Confirmation 1-2	5/31/2018	SOIL	2.97	mg/Kg	---
587854-028	SW Confirmation 2-3	5/31/2018	SOIL	1.5	mg/Kg	---
587854-029	SW Confirmation 3-4	5/31/2018	SOIL	1.04	mg/Kg	---
587854-030	SW Confirmation 4-5	5/31/2018	SOIL	3.1	mg/Kg	---
587854-031	SW Confirmation 5-6	5/31/2018	SOIL	4.84	mg/Kg	---
587854-032	SW Confirmation 6-7	5/31/2018	SOIL	16.3	mg/Kg	---
587854-033	SW Confirmation 7-8	5/31/2018	SOIL	21.5	mg/Kg	---
587854-034	SW Confirmation 8-9	5/31/2018	SOIL	18.3	mg/Kg	---
587854-035	SW Confirmation 9-10	5/31/2018	SOIL	8.76	mg/Kg	---
587854-036	SE Confirmation 0-1	5/31/2018	SOIL	2.97	mg/Kg	---
587854-037	SE Confirmation 1-2	5/31/2018	SOIL	3.05	mg/Kg	---
587854-038	SE Confirmation 2-3	5/31/2018	SOIL	2.27	mg/Kg	---
587854-039	SE Confirmation 3-4	5/31/2018	SOIL	2.43	mg/Kg	---
587854-040	SE Confirmation 4-5	5/31/2018	SOIL	4.55	mg/Kg	---
587854-041	SE Confirmation 5-6	5/31/2018	SOIL	3.2	mg/Kg	---
587854-042	SE Confirmation 6-7	5/31/2018	SOIL	3.22	mg/Kg	---
587854-043	SE Confirmation 7-8	5/31/2018	SOIL	3.67	mg/Kg	---
587854-044	SE Confirmation 8-9	5/31/2018	SOIL	2.23	mg/Kg	---
587854-045	SE Confirmation 9-10	5/31/2018	SOIL	2.4	mg/Kg	---
587854-046	NW Confirmation 0-1	5/31/2018	SOIL	31.5	mg/Kg	---
587854-047	NW Confirmation 1-2	5/31/2018	SOIL	26.9	mg/Kg	---
587854-048	NW Confirmation 2-3	5/31/2018	SOIL	22.3	mg/Kg	---
587854-049	NW Confirmation 3-4	5/31/2018	SOIL	28.2	mg/Kg	---
587854-050	NW Confirmation 4-5	5/31/2018	SOIL	4.48	mg/Kg	---
587854-051	NW Confirmation 5-6	5/31/2018	SOIL	5.21	mg/Kg	---
587854-052	NW Confirmation 6-7	5/31/2018	SOIL	5.95	mg/Kg	---
587854-053	NW Confirmation 7-8	5/31/2018	SOIL	5.74	mg/Kg	---
587854-054	NW Confirmation 8-9	5/31/2018	SOIL	2.77	mg/Kg	---
587854-055	NW Confirmation 9-10	5/31/2018	SOIL	6.33	mg/Kg	---
587854-056	NE Confirmation 0-1	5/31/2018	SOIL	9.39	mg/Kg	---
587854-057	NE Confirmation 1-2	5/31/2018	SOIL	18	mg/Kg	---
587854-058	NE Confirmation 2-3	5/31/2018	SOIL	29.7	mg/Kg	---
587854-059	NE Confirmation 3-4	5/31/2018	SOIL	18.2	mg/Kg	---
587854-060	NE Confirmation 4-5	5/31/2018	SOIL	2.25	mg/Kg	---
587854-061	NE Confirmation 5-6	5/31/2018	SOIL	3.55	mg/Kg	---
587854-062	NE Confirmation 6-7	5/31/2018	SOIL	9.39	mg/Kg	---
587854-063	NE Confirmation 7-8	5/31/2018	SOIL	1.51	mg/Kg	---
587854-064	NE Confirmation 8-9	5/31/2018	SOIL	3.5	mg/Kg	---
587854-065	NE Confirmation 9-10	5/31/2018	SOIL	10.3	mg/Kg	---
1) Note: Results proceeded by "<" indicate a negative result below the indicated detection limit.						

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/15/2018
Testing By: Xenco Labratory, Lubbock, TX

Total TPH						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587854-001	Con 2001	5/31/2018	SOIL	2320	mg/Kg	---
587854-003	Con 2002	5/31/2018	SOIL	1070	mg/Kg	---
587854-005	Con 2003	5/31/2018	SOIL	2190	mg/Kg	---
587854-007	Con 2004	5/31/2018	SOIL	4790	mg/Kg	---
587854-012	SB-2.2	5/31/2018	SOIL	0	mg/Kg	---
587854-013	SB-2.3	5/31/2018	SOIL	0	mg/Kg	---
587854-014	SB-2.4	5/31/2018	SOIL	0	mg/Kg	---
587854-023	Stockpile 3	5/31/2018	SOIL	118	mg/Kg	---
587854-024	Stockpile 4	5/31/2018	SOIL	94.9	mg/Kg	---
587854-025	Pit Bottom	5/31/2018	SOIL	50	mg/Kg	---
587854-026	SW Confirmation 0-1	5/31/2018	SOIL	0	mg/Kg	---
587854-027	SW Confirmation 1-2	5/31/2018	SOIL	0	mg/Kg	---
587854-028	SW Confirmation 2-3	5/31/2018	SOIL	0	mg/Kg	---
587854-029	SW Confirmation 3-4	5/31/2018	SOIL	0	mg/Kg	---
587854-030	SW Confirmation 4-5	5/31/2018	SOIL	0	mg/Kg	---
587854-031	SW Confirmation 5-6	5/31/2018	SOIL	0	mg/Kg	---
587854-032	SW Confirmation 6-7	5/31/2018	SOIL	0	mg/Kg	---
587854-033	SW Confirmation 7-8	5/31/2018	SOIL	0	mg/Kg	---
587854-034	SW Confirmation 8-9	5/31/2018	SOIL	0	mg/Kg	---
587854-035	SW Confirmation 9-10	5/31/2018	SOIL	0	mg/Kg	---
587854-036	SE Confirmation 0-1	5/31/2018	SOIL	0	mg/Kg	---
587854-037	SE Confirmation 1-2	5/31/2018	SOIL	0	mg/Kg	---
587854-038	SE Confirmation 2-3	5/31/2018	SOIL	0	mg/Kg	---
587854-039	SE Confirmation 3-4	5/31/2018	SOIL	0	mg/Kg	---
587854-040	SE Confirmation 4-5	5/31/2018	SOIL	0	mg/Kg	---
587854-041	SE Confirmation 5-6	5/31/2018	SOIL	0	mg/Kg	---
587854-042	SE Confirmation 6-7	5/31/2018	SOIL	0	mg/Kg	---
587854-043	SE Confirmation 7-8	5/31/2018	SOIL	0	mg/Kg	---
587854-044	SE Confirmation 8-9	5/31/2018	SOIL	0	mg/Kg	---
587854-045	SE Confirmation 9-10	5/31/2018	SOIL	0	mg/Kg	---
587854-046	NW Confirmation 0-1	5/31/2018	SOIL	42.6	mg/Kg	---
587854-047	NW Confirmation 1-2	5/31/2018	SOIL	48.6	mg/Kg	---
587854-048	NW Confirmation 2-3	5/31/2018	SOIL	0	mg/Kg	---
587854-049	NW Confirmation 3-4	5/31/2018	SOIL	0	mg/Kg	---
587854-050	NW Confirmation 4-5	5/31/2018	SOIL	0	mg/Kg	---
587854-051	NW Confirmation 5-6	5/31/2018	SOIL	0	mg/Kg	---
587854-052	NW Confirmation 6-7	5/31/2018	SOIL	0	mg/Kg	---
587854-053	NW Confirmation 7-8	5/31/2018	SOIL	0	mg/Kg	---
587854-054	NW Confirmation 8-9	5/31/2018	SOIL	0	mg/Kg	---
587854-055	NW Confirmation 9-10	5/31/2018	SOIL	55	mg/Kg	---
587854-056	NE Confirmation 0-1	5/31/2018	SOIL	37.4	mg/Kg	---
587854-057	NE Confirmation 1-2	5/31/2018	SOIL	42.2	mg/Kg	---
587854-058	NE Confirmation 2-3	5/31/2018	SOIL	52.7	mg/Kg	---
587854-059	NE Confirmation 3-4	5/31/2018	SOIL	0	mg/Kg	---
587854-060	NE Confirmation 4-5	5/31/2018	SOIL	0	mg/Kg	---
587854-061	NE Confirmation 5-6	5/31/2018	SOIL	0	mg/Kg	---
587854-062	NE Confirmation 6-7	5/31/2018	SOIL	0	mg/Kg	---
587854-063	NE Confirmation 7-8	5/31/2018	SOIL	0	mg/Kg	---
587854-064	NE Confirmation 8-9	5/31/2018	SOIL	0	mg/Kg	---
587854-065	NE Confirmation 9-10	5/31/2018	SOIL	0	mg/Kg	---

1) Note: Results proceeded by "<" indicate a negative result below the indicated detection limit.

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/15/2018
Testing By: Xenco Labratory, Lubbock, TX

BTEX						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
587854-001	Con 2001	5/31/2018	SOIL	0	mg/Kg	---
587854-003	Con 2002	5/31/2018	SOIL	0	mg/Kg	---
587854-005	Con 2003	5/31/2018	SOIL	0.00361	mg/Kg	---
587854-007	Con 2004	5/31/2018	SOIL	0.00626	mg/Kg	---
587854-012	SB-2.2	5/31/2018	SOIL	0	mg/Kg	---
587854-013	SB-2.3	5/31/2018	SOIL	0	mg/Kg	---
587854-014	SB-2.4	5/31/2018	SOIL	0	mg/Kg	---
587854-023	Stockpile 3	5/31/2018	SOIL	0	mg/Kg	---
587854-024	Stockpile 4	5/31/2018	SOIL	0.00548	mg/Kg	---
587854-025	Pit Bottom	5/31/2018	SOIL	0	mg/Kg	---
587854-026	/ Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-027	/ Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-028	/ Confirmation	5/31/2018	SOIL	0.000602	mg/Kg	---
587854-029	/ Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-030	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-031	/ Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-032	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-033	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-034	/ Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-035	Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-036	E Confirmation	5/31/2018	SOIL	0.00074	mg/Kg	---
587854-037	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-038	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-039	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-040	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-041	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-042	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-043	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-044	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-045	Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-046	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-047	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-048	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-049	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-050	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-051	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-052	V Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-053	V Confirmation	5/31/2018	SOIL	0.000918	mg/Kg	---
587854-054	V Confirmation	5/31/2018	SOIL	0.000634	mg/Kg	---
587854-055	/ Confirmation	5/31/2018	SOIL	0.00163	mg/Kg	---
587854-056	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-057	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-058	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-059	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-060	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-061	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-062	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-063	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-064	E Confirmation	5/31/2018	SOIL	0	mg/Kg	---
587854-065	Confirmation	5/31/2018	SOIL	0	mg/Kg	---

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/28/2018
Testing By: Xenco Labratory, Lubbock, TX

Chloride						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
590437-001	Con 2001	6/26/2018	SOIL	219	mg/Kg	---
590437-002	Con 2002	6/26/2018	SOIL	74.6	mg/Kg	---
590437-003	Con 2003	6/26/2018	SOIL	51.6	mg/Kg	---
590437-004	Con 2004	6/26/2018	SOIL	58.9	mg/Kg	---
590437-005	SB-2.2	6/26/2018	SOIL	48.1	mg/Kg	---
590437-007	SB-2.3	6/26/2018	SOIL	19.6	mg/Kg	---
590437-009	SB-2.4	6/26/2018	SOIL	570	mg/Kg	---
590437-010	Stockpile 3	6/26/2018	SOIL	280	mg/Kg	---
590437-011	Stockpile 4	6/26/2018	SOIL	15.6	mg/Kg	---
1) Note: Results proceeded by "<" indicate a negative result below the indicated detection limit.						

Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/28/2018
Testing By: Xenco Labratory, Lubbock, TX

Total TPH						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
590437-001	SB-10 0-1	6/26/2018	SOIL	157	mg/Kg	---
590437-001	SB-10 0-1	6/26/2018	SOIL	33.4	mg/Kg	---
590437-001	SB-10 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-002	SB-10 1-2	6/26/2018	SOIL	84.6	mg/Kg	---
590437-002	SB-10 1-2	6/26/2018	SOIL	17.3	mg/Kg	---
590437-002	SB-10 1-2	6/26/2018	SOIL	0	mg/Kg	---
590437-003	SB-10 2-3	6/26/2018	SOIL	61.9	mg/Kg	---
590437-003	SB-10 2-3	6/26/2018	SOIL	18.7	mg/Kg	---
590437-003	SB-10 2-3	6/26/2018	SOIL	0	mg/Kg	---
590437-004	SB-10 3-4	6/26/2018	SOIL	34.6	mg/Kg	---
590437-004	SB-10 3-4	6/26/2018	SOIL	11.2	mg/Kg	---
590437-004	SB-10 3-4	6/26/2018	SOIL	0	mg/Kg	---
590437-005	SB-10A 0-1	6/26/2018	SOIL	41.3	mg/Kg	---
590437-005	SB-10A 0-1	6/26/2018	SOIL	9.71	mg/Kg	---
590437-005	SB-10A 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-007	SB-10B 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-007	SB-10B 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-007	SB-10B 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-009	SF-4 0-1	6/26/2018	SOIL	501	mg/Kg	---
590437-009	SF-4 0-1	6/26/2018	SOIL	110	mg/Kg	---
590437-009	SF-4 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-010	SF-5 0-1	6/26/2018	SOIL	354	mg/Kg	---
590437-010	SF-5 0-1	6/26/2018	SOIL	80.5	mg/Kg	---
590437-010	SF-5 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-011	SF-6 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-011	SF-6 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-011	SF-6 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-012	Stockpile 1	6/26/2018	SOIL	214	mg/Kg	---
590437-012	Stockpile 1	6/26/2018	SOIL	48.3	mg/Kg	---
590437-012	Stockpile 1	6/26/2018	SOIL	0	mg/Kg	---
590437-013	Stockpile 2	6/26/2018	SOIL	263	mg/Kg	---
590437-013	Stockpile 2	6/26/2018	SOIL	59	mg/Kg	---
590437-013	Stockpile 2	6/26/2018	SOIL	0	mg/Kg	---

1) Note: Results proceeded by "<" indicate a negative result below the indicated detection limit.

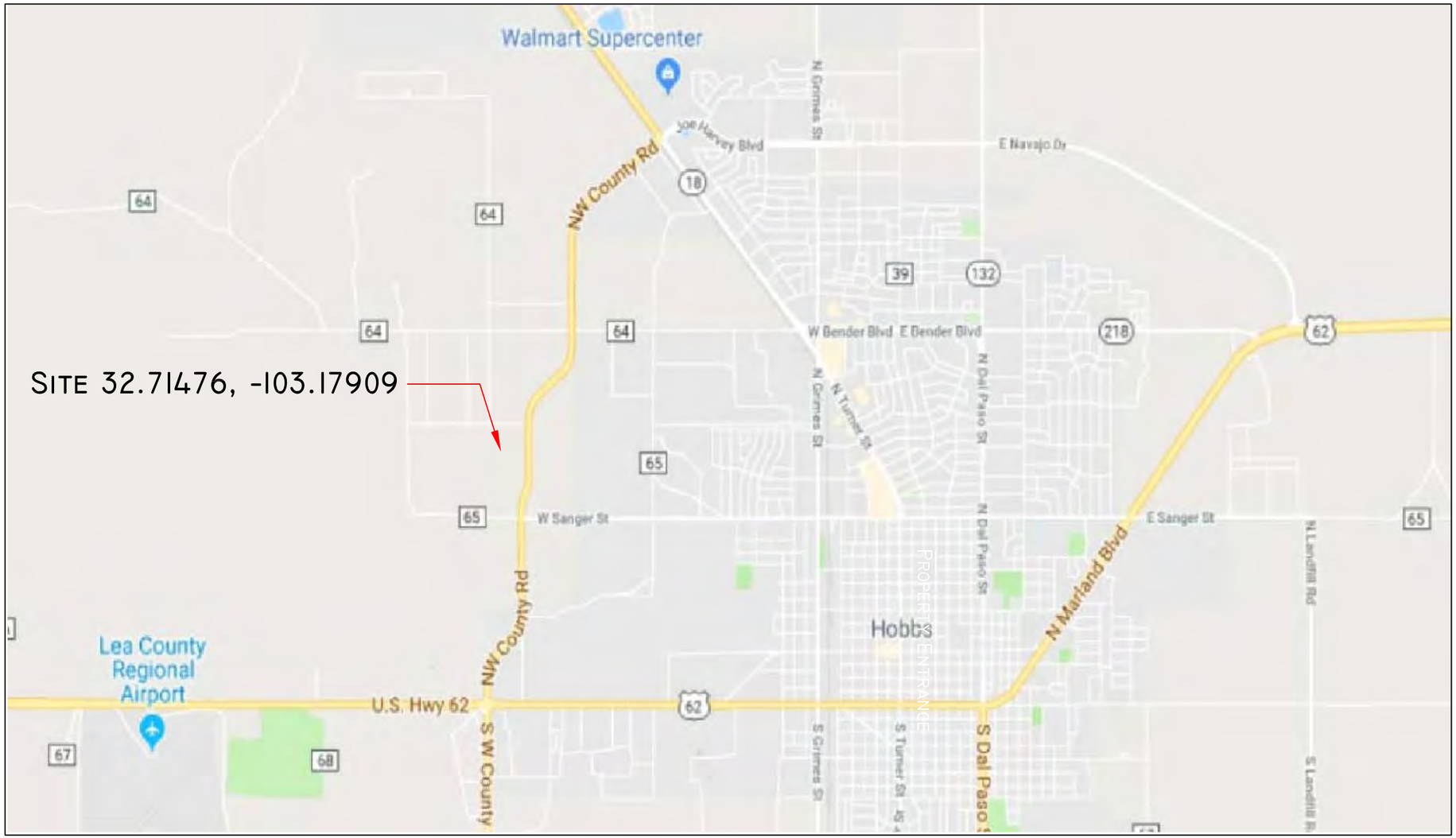
Summary of Release Analytical Results

Project Site: North Hobbs Satellite 31 East CO2
Date Reported: 6/28/2018
Testing By: Xenco Labratory, Lubbock, TX

BTEX						
Lab Sample I.D.	Sample Description	Date Sampled	Matrix	RL Results	Unit	Field Screen Results (ppm)
590437-001	SB-10 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-002	SB-10 1-2	6/26/2018	SOIL	0	mg/Kg	---
590437-003	SB-10 2-3	6/26/2018	SOIL	0	mg/Kg	---
590437-004	SB-10 3-4	6/26/2018	SOIL	0	mg/Kg	---
590437-005	SB-10A 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-007	SB-10B 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-009	SF-4 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-010	SF-5 0-1	6/26/2018	SOIL	0	mg/Kg	---
590437-011	SF-6 0-1	6/26/2018	SOIL	0	mg/Kg	---

1) Note: Results proceeded by "<" indicate a negative result below the indicated detection limit.

Appendix B
Figures



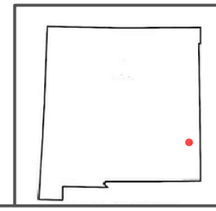
SITE 32.71476, -103.17909

N

0 1320FT 2640FT

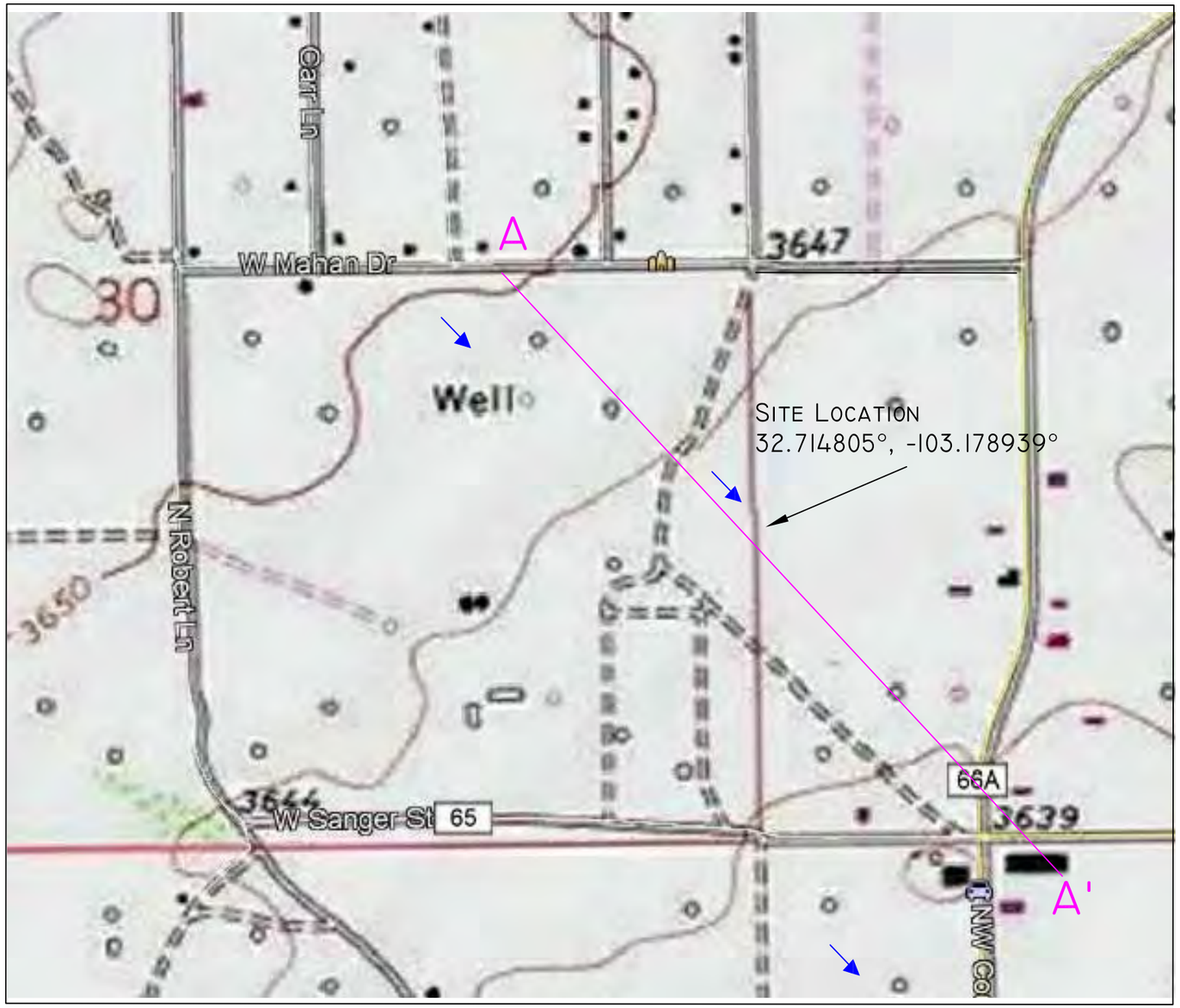
SCALE

AREA MAP



R2M ENGINEERING
Texas Registered Engineering Firm F-9992
Texas Licensed Surveying Firm 10193863
5012 50th Ste. 204 P: 806-783-9944
Lubbock, TX 79414 F: 806-783-9966
www.R2Meng.com

COMPANY: VENABLE'S CONSTRUCTION
PROJECT: IRP-4935
TITLE: AREA MAP
LOCATION: HOBBS, NM
DATE: 4-2018



N

0 600FT 1200FT

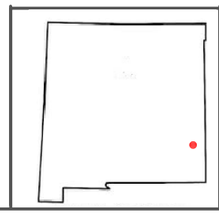
Scale

Surface water Flow

A 3,650 ft.

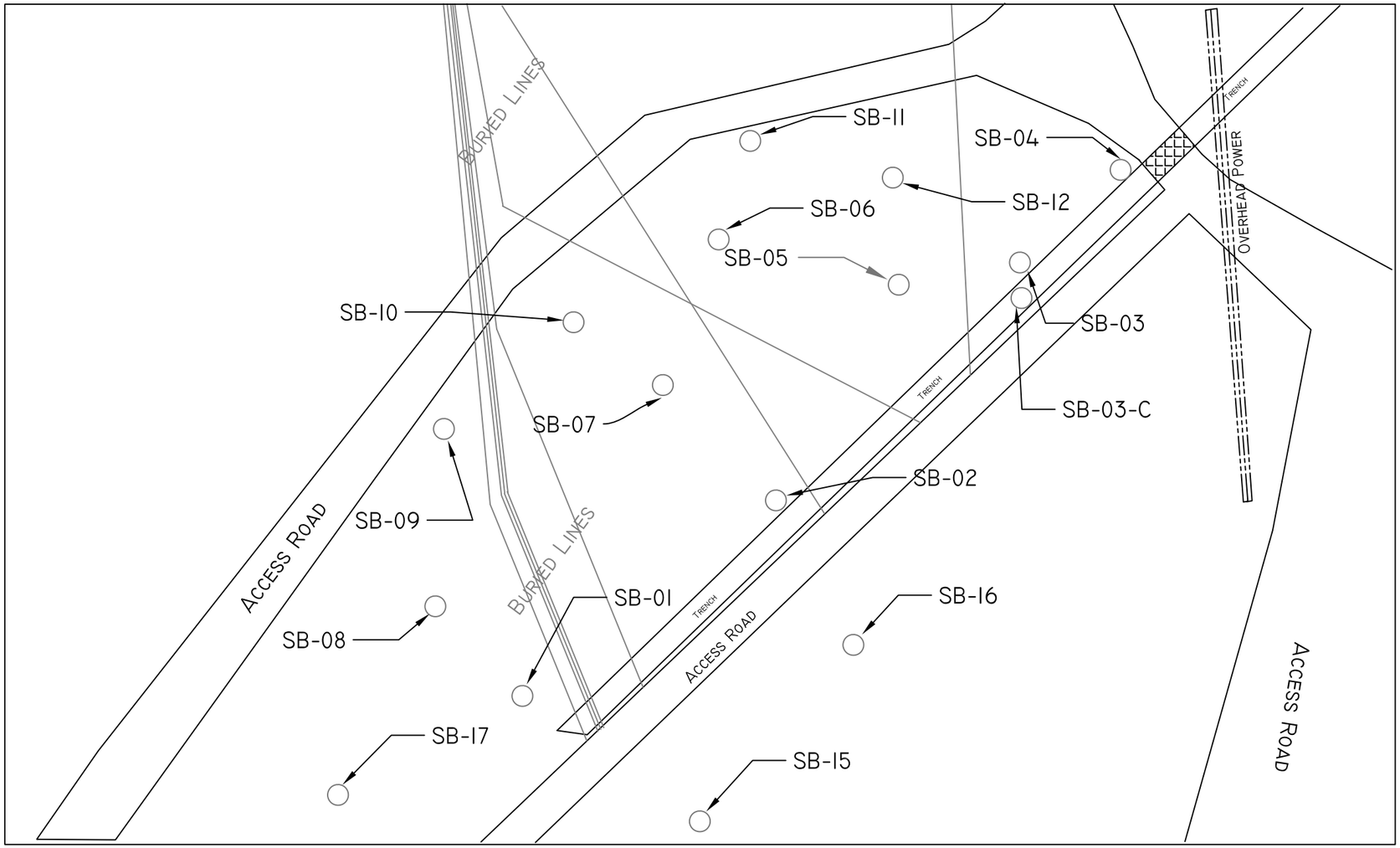
A' 3,639 ft.

Topographic Map



R2M Engineering
Texas Registered Engineering Firm F-9992
Texas Licensed Surveying Firm 10193863
5012 50th Ste. 204 P: 806-783-9944
Lubbock, TX 79414 F: 806-783-9966
www.R2Meng.com

Company: Venable's Construction
Project: IRP-4935
Title: Topographic Map
Location: Hobbs, NM
Date: 4-2018



N

0 42.5FT 85FT

SCALE

NAME	LATITUDE	LONGITUDE
SB-01	32.71466	-103.17957
SB-02	32.71479	-103.17933
SB-03	32.71484	-103.17941
SB-03-C	32.714979	-103.17921
SB-04	32.71511	-103.17899
SB-05	32.71496	-103.17924
SB-06	32.71494	-103.17942
SB-07	32.71491	-103.17943
SB-08	32.71469	-103.17962
SB-09	32.71485	-103.17963
SB-10	32.71494	-103.17952
SB-11	32.71507	-103.17937
SB-12	32.71503	-103.17924
SB-13	32.71523	-103.17928
SB-14	32.71502	-103.17964
SB-15	32.71456	-103.17941
SB-16	32.71469	-103.17928
SB-17	32.71458	-103.17973

○ SAMPLE LOCATION

SITE MAP

R2M ENGINEERING
Texas Registered Engineering Firm F-9992
Texas Licensed Surveying Firm 10193863
5012 50th Ste. 204 P: 806-783-9944
Lubbock, TX 79414 F: 806-783-9966
www.R2Meng.com

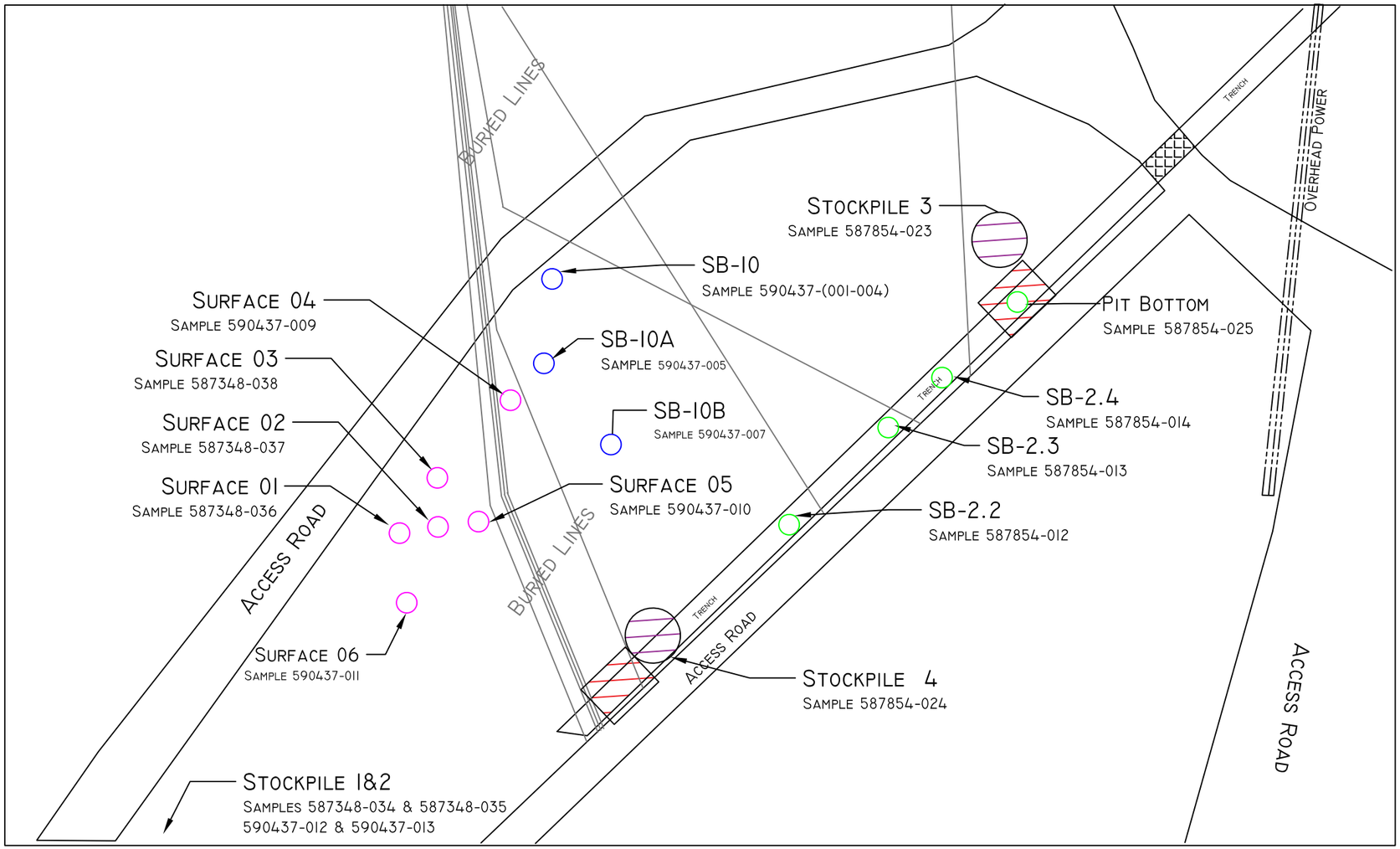
COMPANY: VENABLE'S CONSTRUCTION

PROJECT: IRP-4935

TITLE: SOIL BORING GPS

LOCATION: HOBBS, NM

DATE: 6-2018



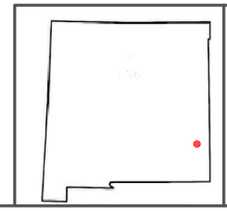
N

0 42.5FT 85FT

SCALE

- SAMPLE LOCATION OVER SPRAY AREA
- SAMPLE LOCATION INSIDE TRENCH
- SAMPLE LOCATION SB-10, SB-10A, SB-10B
- OPEN EXCAVATION
- STOCKPILE

SITE MAP



R2M ENGINEERING
Texas Registered Engineering Firm F-9992
Texas Licensed Surveying Firm 10193863
5012 50th Ste. 204 P: 806-783-9944
Lubbock, TX 79414 F: 806-783-9966
www.R2Meng.com

COMPANY: VENABLE'S CONSTRUCTION

PROJECT: IRP-4935

TITLE: SAMPLE LOCATIONS

LOCATION: HOBBS, NM

DATE: 7-2018

Appendix C

Soil Test Data- Xenco Laboratory

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm
Report Date: 11-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587348-001		587348-002		587348-005		587348-006		587348-009		587348-010	
	Field Id:	SB-17(0"-6")		SB-17(6"-12")		SB-8(0"-6")		SB-8(6"-18")		SB-9(0-12)		SB-9(1-2)	
	Depth:	0-6 In		6-12 In		0-6 In		6-12 In		0-1 ft		1-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-25-18 11:25		May-25-18 11:25		May-25-18 11:25		May-25-18 11:25		May-25-18 11:25		May-25-18 11:25	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	May-31-18 17:05		May-31-18 17:05		May-31-18 17:05		May-31-18 17:05		May-31-18 17:05		May-31-18 17:05	
	Analyzed:	Jun-01-18 02:22		Jun-01-18 02:38		Jun-01-18 02:54		Jun-01-18 03:26		Jun-01-18 03:42		Jun-01-18 03:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
Toluene		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
Ethylbenzene		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
m,p-Xylenes		<0.00100	0.00201	<0.00100	0.00200	<0.000998	0.00200	<0.00100	0.00200	<0.00100	0.00200	<0.000996	0.00199
o-Xylene		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
Total Xylenes		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
Total BTEX		<0.000502	0.00100	<0.000500	0.00100	<0.000499	0.000998	<0.000500	0.00100	<0.000500	0.00100	<0.000498	0.000996
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31	
	Analyzed:	Jun-01-18 06:54		Jun-01-18 07:28		Jun-01-18 07:39		Jun-01-18 07:51		Jun-01-18 08:24		Jun-01-18 08:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		268	9.96	215	9.90	314	9.88	296	9.82	18.7	9.84	3.44 J	9.92
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	May-31-18 16:42		May-31-18 16:45		May-31-18 16:48		May-31-18 16:51		May-31-18 16:54		May-31-18 16:57	
	Analyzed:	Jun-05-18 01:09		Jun-05-18 01:30		Jun-05-18 01:51		Jun-05-18 02:12		Jun-05-18 02:33		Jun-05-18 02:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.81	14.9	<9.88	15.0	<9.87	15.0	<9.86	15.0	<9.87	15.0	<9.83	14.9
C10-C28 Diesel Range Organics		<9.81	14.9	<9.88	15.0	272	15.0	194	15.0	28.9	15.0	22.8	14.9
C28-C35 Oil Range Hydrocarbons		<9.81	14.9	<9.88	15.0	57.6	15.0	52.1	15.0	26.6	15.0	26.9	14.9
Total TPH		47.7	14.9	<9.88	15.0	330	15.0	246	15.0	55.5	15.0	49.7	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm
Report Date: 11-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587348-011		587348-012		587348-014		587348-015		587348-017		587348-018	
	Field Id:	SB-6(0-1)		SB-6(1-2)		SB-7(0-1)		SB-7(1-2)		SB-5(0-1)		SB-5(1-2)	
	Depth:	0-1 ft		1-2 ft		0-1 ft		1-2 ft		0-1 ft		1-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-25-18 12:30		May-25-18 12:30		May-25-18 12:45		May-25-18 12:45		May-25-18 13:11		May-25-18 13:11	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-04-18 15:35		May-31-18 17:05		Jun-01-18 18:00		May-31-18 17:05		Jun-01-18 18:00		Jun-01-18 18:00	
	Analyzed:	Jun-04-18 17:11		Jun-01-18 04:31		Jun-01-18 19:17		May-31-18 23:24		Jun-01-18 19:49		Jun-01-18 20:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000495	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	<0.000498	0.000996
Toluene		0.00313	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	0.000717 J	0.000996
Ethylbenzene		<0.000495	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	<0.000498	0.000996
m,p-Xylenes		0.00160 J	0.00198	<0.000992	0.00198	<0.000998	0.00200	<0.00100	0.00200	<0.000998	0.00200	<0.000996	0.00199
o-Xylene		<0.000495	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	<0.000498	0.000996
Total Xylenes		0.00160	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	<0.000498	0.000996
Total BTEX		0.00473	0.000990	<0.000496	0.000992	<0.000499	0.000998	<0.000501	0.00100	<0.000499	0.000998	0.000717 J	0.000996
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31	
	Analyzed:	Jun-01-18 08:47		Jun-01-18 08:58		Jun-01-18 09:10		Jun-01-18 18:00		Jun-01-18 18:12		Jun-01-18 19:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		244	9.96	235	9.98	124	9.92	34.0	9.80	172	9.92	334	9.86
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	May-31-18 17:00		May-31-18 17:03		May-31-18 17:06		May-31-18 17:09		May-31-18 17:12		May-31-18 17:15	
	Analyzed:	Jun-05-18 03:57		Jun-05-18 00:06		Jun-05-18 03:15		Jun-05-18 03:35		Jun-05-18 04:17		Jun-05-18 05:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		28.5	14.9	28.4	15.0	<9.86	15.0	<9.78	14.9	<9.78	14.9	<9.80	14.9
C10-C28 Diesel Range Organics		176	14.9	237	15.0	89.4	15.0	50.3	14.9	330	14.9	814	14.9
C28-C35 Oil Range Hydrocarbons		48.3	14.9	71.3	15.0	26.9	15.0	23.5	14.9	67.1	14.9	161	14.9
Total TPH		253	14.9	337	15.0	116	15.0	73.8	14.9	397	14.9	975	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm
Report Date: 11-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587348-020		587348-021		587348-022		587348-023		587348-024		587348-025	
	Field Id:	SB-10(0-1)		SB-10(1-2)		SB-11(0-1)		SB-11(1-2)		SB-12(0-1)		SB-12(1-2)	
	Depth:	0-1 ft		1-2 ft		0-1 ft		1-2 ft		0-1 ft		1-2 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-25-18 13:31		May-25-18 13:31		May-25-18 13:55		May-25-18 13:55		May-25-18 14:30		May-25-18 14:30	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00	
	Analyzed:	Jun-01-18 20:21		Jun-01-18 20:37		Jun-02-18 01:44		Jun-02-18 02:00		Jun-02-18 02:16		Jun-02-18 02:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
Toluene		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
Ethylbenzene		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
m,p-Xylenes		<0.000996	0.00199	<0.000996	0.00199	<0.00100	0.00200	<0.000992	0.00198	<0.000996	0.00199	<0.00100	0.00200
o-Xylene		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
Total Xylenes		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
Total BTEX		<0.000498	0.000996	<0.000498	0.000996	<0.000500	0.00100	<0.000496	0.000992	<0.000498	0.000996	<0.000501	0.00100
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31		May-31-18 08:31	
	Analyzed:	Jun-01-18 19:19		Jun-01-18 19:31		Jun-01-18 19:42		Jun-01-18 19:53		Jun-01-18 20:05		Jun-01-18 20:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		223	9.84	15.2	9.88	17.2	9.94	9.40 J	9.82	4.44 J	9.92	2.55 J	9.90
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 12:33		Jun-01-18 12:42		Jun-01-18 12:45		Jun-01-18 12:48		Jun-01-18 12:51		Jun-01-18 12:54	
	Analyzed:	Jun-09-18 14:38		Jun-09-18 15:41		Jun-09-18 16:02		Jun-09-18 16:23		Jun-09-18 16:44		Jun-09-18 17:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		27.9	15.0	<9.82	14.9	<9.87	15.0	<9.83	14.9	<9.81	14.9	<9.78	14.9
C10-C28 Diesel Range Organics		914	15.0	43.0	14.9	30.3	15.0	27.8	14.9	18.8	14.9	<9.78	14.9
C28-C35 Oil Range Hydrocarbons		152	15.0	51.0	14.9	20.7	15.0	22.6	14.9	18.8	14.9	<9.78	14.9
Total TPH		1090	15.0	94.0	14.9	51.0	15.0	50.4	14.9	37.6	14.9	<9.78	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm
Report Date: 11-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587348-026		587348-027		587348-028		587348-029		587348-030		587348-031	
	Field Id:	SB-1(0-1)		SB-1(1-2)		SB-2(0-1)		SB-2(1-2)		SB-3(0-1)		SB-3(1-2)	
	Depth:	0-1 ft		1-2 ft		0-1 ft		1-2 ft		0-1 ft		1-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-25-18 15:10		May-25-18 15:10		May-25-18 15:00		May-25-18 15:00		May-25-18 14:50		May-25-18 14:50	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00	
	Analyzed:	Jun-02-18 02:49		Jun-02-18 03:05		Jun-02-18 03:21		Jun-02-18 03:37		Jun-02-18 03:53		Jun-02-18 04:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
Toluene		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
Ethylbenzene		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
m,p-Xylenes		<0.000994	0.00199	<0.00100	0.00201	<0.000998	0.00200	<0.00100	0.00200	<0.00100	0.00201	<0.000996	0.00199
o-Xylene		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
Total Xylenes		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
Total BTEX		<0.000497	0.000994	<0.000502	0.00100	<0.000499	0.000998	<0.000501	0.00100	<0.000502	0.00100	<0.000498	0.000996
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	May-31-18 08:31		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12	
	Analyzed:	Jun-01-18 20:27		Jun-01-18 23:17		Jun-01-18 21:35		Jun-01-18 22:09		Jun-01-18 22:20		Jun-01-18 22:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		168	9.94	473	9.86	495	9.90	728	9.82	225	9.78	93.6	9.75
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 12:57		Jun-01-18 13:00		Jun-01-18 13:03		Jun-01-18 13:06		Jun-01-18 13:09		Jun-01-18 13:12	
	Analyzed:	Jun-09-18 17:26		Jun-09-18 17:47		Jun-09-18 18:08		Jun-09-18 18:50		Jun-09-18 19:11		Jun-09-18 19:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		26.3	15.0	28.7	14.9	27.6	15.0	27.5	14.9	<9.78	14.9	28.8	14.9
C10-C28 Diesel Range Organics		22.9	15.0	44.2	14.9	90.7	15.0	50.9	14.9	14.8 J	14.9	148	14.9
C28-C35 Oil Range Hydrocarbons		13.7 J	15.0	21.0	14.9	29.0	15.0	22.0	14.9	11.9 J	14.9	78.0	14.9
Total TPH		62.9	15.0	93.9	14.9	147	15.0	100	14.9	26.7	14.9	255	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm
Report Date: 11-JUN-18
Project Manager: Holly Taylor

Analysis Requested	*Lab Id:*	587348-032		587348-033		587348-034		587348-035		587348-036		587348-037	
	Field Id:	SB-4(0-1)		SB-4(1-2)		Overspray Stockpile 1		Overspray Stockpile 2		1(0-6)		2(0-6)	
	Depth:	0-1 ft		1-2 ft						0-6 In		0-6 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-25-18 14:40		May-25-18 14:40		May-25-18 00:00		May-25-18 00:00		May-25-18 00:00		May-25-18 00:00	
BTEX by SW 8260B SUB: TX104704215-18-26	*Extracted:*	Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00		Jun-01-18 18:00	
	Analyzed:	Jun-02-18 04:25		Jun-02-18 04:41		Jun-02-18 04:57		Jun-02-18 05:13		Jun-02-18 05:30		Jun-02-18 05:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	<0.000500	0.00100	<0.000498	0.000996
Toluene		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	0.000980 J	0.00100	0.000896 J	0.000996
Ethylbenzene		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	<0.000500	0.00100	<0.000498	0.000996
m,p-Xylenes		<0.000994	0.00199	<0.000996	0.00199	<0.000998	0.00200	<0.00100	0.00201	0.00136 J	0.00200	<0.000996	0.00199
o-Xylene		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	<0.000500	0.00100	<0.000498	0.000996
Total Xylenes		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	0.00136	0.00100	<0.000498	0.000996
Total BTEX		<0.000497	0.000994	<0.000498	0.000996	<0.000499	0.000998	<0.000502	0.00100	0.00234	0.00100	0.000896 J	0.000996
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	*Extracted:*	May-31-18 09:12		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12		May-31-18 09:12	
	Analyzed:	Jun-01-18 22:43		Jun-01-18 23:28		Jun-01-18 23:39		Jun-01-18 23:51		Jun-02-18 00:02		Jun-02-18 00:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1.86 J	9.92	30.1	9.96	578	9.98	206	9.82	574	9.88	676	9.92
TPH by SW 8015B SUB: TX104704215-18-26	*Extracted:*	Jun-01-18 13:15		Jun-01-18 13:18		Jun-01-18 13:21		Jun-01-18 13:24		Jun-01-18 13:27		Jun-01-18 13:30	
	Analyzed:	Jun-09-18 19:53		Jun-09-18 20:14		Jun-09-18 20:36		Jun-09-18 20:56		Jun-09-18 21:17		Jun-09-18 21:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.82	14.9	26.9	14.9	30.2	15.0	29.2	14.9	<9.78	14.9	28.8	15.0
C10-C28 Diesel Range Organics		18.5	14.9	14.2 J	14.9	1640	15.0	1140	14.9	155	14.9	363	15.0
C28-C35 Oil Range Hydrocarbons		12.4 J	14.9	11.1 J	14.9	240	15.0	216	14.9	65.9	14.9	65.5	15.0
Total TPH		30.9	14.9	52.2	14.9	1910	15.0	1390	14.9	221	14.9	457	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587348

R2M Engineering, Lubbock, TX

Project Name: Venables Construction

Project Id:

Contact: Mason Sanders

Project Location: Hobbs, NM

Date Received in Lab: Fri May-25-18 04:10 pm

Report Date: 11-JUN-18

Project Manager: Holly Taylor

Analysis Requested							
	Lab Id:	587348-038					
	Field Id:	3 (0-6)					
	Depth:	0-6 In					
	Matrix:	SOIL					
	Sampled:	May-25-18 00:00					
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 06:02					
	Analyzed:	Jun-02-18 06:02					
	Units/RL:	mg/kg	RL				
Benzene		<0.000500	0.00100				
Toluene		0.00179	0.00100				
Ethylbenzene		<0.000500	0.00100				
m,p-Xylenes		0.00154 J	0.00200				
o-Xylene		<0.000500	0.00100				
Total Xylenes		0.00154	0.00100				
Total BTEX		0.00333	0.00100				
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	May-31-18 09:12					
	Analyzed:	Jun-02-18 00:25					
	Units/RL:	mg/kg	RL				
Chloride		1110 X	9.94				
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-01-18 13:33					
	Analyzed:	Jun-09-18 21:59					
	Units/RL:	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		32.2	14.9				
C10-C28 Diesel Range Organics		444	14.9				
C28-C35 Oil Range Hydrocarbons		90.0	14.9				
Total TPH		566	14.9				

Holly Taylor
Project Manager

Analytical Report 587348

for

R2M Engineering

Project Manager: Mason Sanders

Venables Construction

11-JUN-18

Collected By: Client

6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

11-JUN-18

Project Manager: **Mason Sanders**
R2M Engineering
5012 50th
Suite 204
Lubbock, TX 79414

Reference: XENCO Report No(s): **587348**
Venables Construction
Project Address: Hobbs, NM

Mason Sanders:

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) 587348. 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. 587348 will be filed for 45 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,

Holly Taylor
Project Manager

Sample Cross Reference 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-17(0"-6")	S	05-25-18 11:25	0 - 6 In	587348-001
SB-17(6"-12")	S	05-25-18 11:25	6 - 12 In	587348-002
SB-8(0"-6")	S	05-25-18 11:25	0 - 6 In	587348-005
SB-8(6"-18")	S	05-25-18 11:25	6 - 12 In	587348-006
SB-9(0-12)	S	05-25-18 11:25	0 - 1 ft	587348-009
SB-9(1-2)	S	05-25-18 11:25	1 - 2 ft	587348-010
SB-6(0-1)	S	05-25-18 12:30	0 - 1 ft	587348-011
SB-6(1-2)	S	05-25-18 12:30	1 - 2 ft	587348-012
SB-7(0-1)	S	05-25-18 12:45	0 - 1 ft	587348-014
SB-7(1-2)	S	05-25-18 12:45	1 - 2 ft	587348-015
SB-5(0-1)	S	05-25-18 13:11	0 - 1 ft	587348-017
SB-5(1-2)	S	05-25-18 13:11	1 - 2 ft	587348-018
SB-10(0-1)	S	05-25-18 13:31	0 - 1 ft	587348-020
SB-10(1-2)	S	05-25-18 13:31	1 - 2 ft	587348-021
SB-11(0-1)	S	05-25-18 13:55	0 - 1 ft	587348-022
SB-11(1-2)	S	05-25-18 13:55	1 - 2 ft	587348-023
SB-12(0-1)	S	05-25-18 14:30	0 - 1 ft	587348-024
SB-12(1-2)	S	05-25-18 14:30	1 - 2 In	587348-025
SB-1(0-1)	S	05-25-18 15:10	0 - 1 ft	587348-026
SB-1(1-2)	S	05-25-18 15:10	1 - 2 ft	587348-027
SB-2(0-1)	S	05-25-18 15:00	0 - 1 ft	587348-028
SB-2(1-2)	S	05-25-18 15:00	1 - 2 ft	587348-029
SB-3(0-1)	S	05-25-18 14:50	0 - 1 ft	587348-030
SB-3(1-2)	S	05-25-18 14:50	1 - 2 ft	587348-031
SB-4(0-1)	S	05-25-18 14:40	0 - 1 ft	587348-032
SB-4(1-2)	S	05-25-18 14:40	1 - 2 ft	587348-033
Overspray Stockpile 1	S	05-25-18 00:00	In	587348-034
Overspray Stockpile 2	S	05-25-18 00:00	In	587348-035
1(0-6)	S	05-25-18 00:00	0 - 6 In	587348-036
2(0-6)	S	05-25-18 00:00	0 - 6 In	587348-037
3 (0-6)	S	05-25-18 00:00	0 - 6 In	587348-038
SB-17(12"-18")	S	05-25-18 11:25	12 - 18 In	Not Analyzed
SB-17(18"-24")	S	05-25-18 11:25	18 - 24 In	Not Analyzed
SB-8(12"-18")	S	05-25-18 11:25	12 - 18 In	Not Analyzed
SB-8(18"-24")	S	05-25-18 11:25	18 - 24 In	Not Analyzed
SB-6(2-3)	S	05-25-18 12:30	2 - 3 ft	Not Analyzed
SB-7(2-3)	S	05-25-18 12:45	2 - 3 ft	Not Analyzed
SB-5(2-3)	S	05-25-18 13:11	2 - 3 ft	Not Analyzed

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3052061 BTEX by SW 8260B
Lab Sample ID 587348-015 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587348-001, -002, -005, -006, -009, -010, -012, -015.
The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3052114 Inorganic Anions by SW 9056
Lab Sample ID 587348-038 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587348-027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3052225 BTEX by SW 8260B
Surrogate 1,2-Dichloroethane-D4 recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 587348-037,587348-026.

Lab Sample ID 587348-022 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike. Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587348-022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3052372 BTEX by SW 8260B
Surrogate 1,2-Dichloroethane-D4 recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 587559-001 S.

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-17(0''-6'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-001	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**268**	9.96	0.353	mg/kg	06.01.18 06.54		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.42	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.81	14.9	9.81	mg/kg	06.05.18 01.09	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.81	14.9	9.81	mg/kg	06.05.18 01.09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.81	14.9	9.81	mg/kg	06.05.18 01.09	U	1
Total TPH	PHC635	**47.7**	14.9	9.81	mg/kg	06.05.18 01.09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.05.18 01.09	
o-Terphenyl	84-15-1	111	%	70-135	06.05.18 01.09	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-17(0''-6'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-001	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.01.18 02.22	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.01.18 02.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	119	%	74-126	06.01.18 02.22	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.01.18 02.22	
Toluene-D8	2037-26-5	95	%	73-132	06.01.18 02.22	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-17(6''-12'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-002	Date Collected:	05.25.18 11.25	Sample Depth:	6 - 12 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**215**	9.90	0.350	mg/kg	06.01.18 07.28		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.45	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.05.18 01.30	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.05.18 01.30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.05.18 01.30	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.05.18 01.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.05.18 01.30	
o-Terphenyl	84-15-1	115	%	70-135	06.05.18 01.30	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-17(6''-12'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-002	Date Collected:	05.25.18 11.25	Sample Depth:	6 - 12 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.01.18 02.38	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.01.18 02.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.01.18 02.38	
1,2-Dichloroethane-D4	17060-07-0	111	%	80-120	06.01.18 02.38	
Toluene-D8	2037-26-5	92	%	73-132	06.01.18 02.38	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-8(0''-6'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-005	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**314**	9.88	0.350	mg/kg	06.01.18 07.39		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.48	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.87	15.0	9.87	mg/kg	06.05.18 01.51	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**272**	15.0	9.87	mg/kg	06.05.18 01.51		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**57.6**	15.0	9.87	mg/kg	06.05.18 01.51		1
Total TPH	PHC635	**330**	15.0	9.87	mg/kg	06.05.18 01.51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.05.18 01.51	
o-Terphenyl	84-15-1	100	%	70-135	06.05.18 01.51	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-8(0''-6'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-005	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.01.18 02.54	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.01.18 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	117	%	74-126	06.01.18 02.54	
1,2-Dichloroethane-D4	17060-07-0	112	%	80-120	06.01.18 02.54	
Toluene-D8	2037-26-5	91	%	73-132	06.01.18 02.54	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-8(6''-18'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-006	Date Collected:	05.25.18 11.25	Sample Depth:	6 - 12 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**296**	9.82	0.348	mg/kg	06.01.18 07.51		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.51	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.86	15.0	9.86	mg/kg	06.05.18 02.12	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**194**	15.0	9.86	mg/kg	06.05.18 02.12		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**52.1**	15.0	9.86	mg/kg	06.05.18 02.12		1
Total TPH	PHC635	**246**	15.0	9.86	mg/kg	06.05.18 02.12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	06.05.18 02.12	
o-Terphenyl	84-15-1	121	%	70-135	06.05.18 02.12	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-8(6''-18'')**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-006	Date Collected:	05.25.18 11.25	Sample Depth:	6 - 12 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.01.18 03.26	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	06.01.18 03.26	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.01.18 03.26	
Toluene-D8	2037-26-5	87	%	73-132	06.01.18 03.26	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-9(0-12)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-009	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.7**	9.84	0.348	mg/kg	06.01.18 08.24		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.54	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.87	15.0	9.87	mg/kg	06.05.18 02.33	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**28.9**	15.0	9.87	mg/kg	06.05.18 02.33		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**26.6**	15.0	9.87	mg/kg	06.05.18 02.33		1
Total TPH	PHC635	**55.5**	15.0	9.87	mg/kg	06.05.18 02.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	06.05.18 02.33	
o-Terphenyl	84-15-1	96	%	70-135	06.05.18 02.33	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-9(0-12)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-009	Date Collected:	05.25.18 11.25	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.01.18 03.42	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.01.18 03.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	117	%	74-126	06.01.18 03.42	
1,2-Dichloroethane-D4	17060-07-0	105	%	80-120	06.01.18 03.42	
Toluene-D8	2037-26-5	90	%	73-132	06.01.18 03.42	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-9(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-010	Date Collected:	05.25.18 11.25	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.44**	9.92	0.351	mg/kg	06.01.18 08.36	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 16.57	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.83	14.9	9.83	mg/kg	06.05.18 02.54	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**22.8**	14.9	9.83	mg/kg	06.05.18 02.54		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**26.9**	14.9	9.83	mg/kg	06.05.18 02.54		1
Total TPH	PHC635	**49.7**	14.9	9.83	mg/kg	06.05.18 02.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.05.18 02.54	
o-Terphenyl	84-15-1	112	%	70-135	06.05.18 02.54	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-9(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-010	Date Collected:	05.25.18 11.25	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.01.18 03.59	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.01.18 03.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	121	%	74-126	06.01.18 03.59	
1,2-Dichloroethane-D4	17060-07-0	106	%	80-120	06.01.18 03.59	
Toluene-D8	2037-26-5	94	%	73-132	06.01.18 03.59	

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R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-6(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-011	Date Collected:	05.25.18 12.30	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**244**	9.96	0.353	mg/kg	06.01.18 08.47		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.00	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.5**	14.9	9.80	mg/kg	06.05.18 03.57		1
C10-C28 Diesel Range Organics	C10C28DRO	**176**	14.9	9.80	mg/kg	06.05.18 03.57		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**48.3**	14.9	9.80	mg/kg	06.05.18 03.57		1
Total TPH	PHC635	**253**	14.9	9.80	mg/kg	06.05.18 03.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.05.18 03.57	
o-Terphenyl	84-15-1	94	%	70-135	06.05.18 03.57	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-6(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-011	Date Collected:	05.25.18 12.30	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 15.35	Basis:	Wet Weight
Seq Number:	3052372			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000495	0.000990	0.000495	mg/kg	06.04.18 17.11	U	1
Toluene	108-88-3	**0.00313**	0.000990	0.000495	mg/kg	06.04.18 17.11		1
Ethylbenzene	100-41-4	<0.000495	0.000990	0.000495	mg/kg	06.04.18 17.11	U	1
m,p-Xylenes	179601-23-1	**0.00160**	0.00198	0.000990	mg/kg	06.04.18 17.11	J	1
o-Xylene	95-47-6	<0.000495	0.000990	0.000495	mg/kg	06.04.18 17.11	U	1
Total Xylenes	1330-20-7	**0.00160**	0.000990	0.000495	mg/kg	06.04.18 17.11		1
Total BTEX		**0.00473**	0.000990	0.000495	mg/kg	06.04.18 17.11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	112	%	74-126	06.04.18 17.11	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.04.18 17.11	
Toluene-D8	2037-26-5	94	%	73-132	06.04.18 17.11	

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Venables Construction

Sample Id:	**SB-6(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-012	Date Collected:	05.25.18 12.30	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**235**	9.98	0.353	mg/kg	06.01.18 08.58		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.03	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.4**	15.0	9.85	mg/kg	06.05.18 00.06		1
C10-C28 Diesel Range Organics	C10C28DRO	**237**	15.0	9.85	mg/kg	06.05.18 00.06		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**71.3**	15.0	9.85	mg/kg	06.05.18 00.06		1
Total TPH	PHC635	**337**	15.0	9.85	mg/kg	06.05.18 00.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.05.18 00.06	
o-Terphenyl	84-15-1	96	%	70-135	06.05.18 00.06	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-6(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-012	Date Collected:	05.25.18 12.30	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.01.18 04.31	U	1
o-Xylene	95-47-6	<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1
Total Xylenes	1330-20-7	<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1
Total BTEX		<0.000496	0.000992	0.000496	mg/kg	06.01.18 04.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	115	%	74-126	06.01.18 04.31	
1,2-Dichloroethane-D4	17060-07-0	98	%	80-120	06.01.18 04.31	
Toluene-D8	2037-26-5	85	%	73-132	06.01.18 04.31	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-7(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-014	Date Collected:	05.25.18 12.45	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**124**	9.92	0.351	mg/kg	06.01.18 09.10		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.06	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.86	15.0	9.86	mg/kg	06.05.18 03.15	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**89.4**	15.0	9.86	mg/kg	06.05.18 03.15		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**26.9**	15.0	9.86	mg/kg	06.05.18 03.15		1
Total TPH	PHC635	**116**	15.0	9.86	mg/kg	06.05.18 03.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.05.18 03.15	
o-Terphenyl	84-15-1	113	%	70-135	06.05.18 03.15	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-7(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-014	Date Collected:	05.25.18 12.45	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052076			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.01.18 19.17	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	06.01.18 19.17	
1,2-Dichloroethane-D4	17060-07-0	118	%	80-120	06.01.18 19.17	
Toluene-D8	2037-26-5	95	%	73-132	06.01.18 19.17	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-7(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-015	Date Collected:	05.25.18 12.45	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.0**	9.80	0.347	mg/kg	06.01.18 18.00		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.09	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.05.18 03.35	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**50.3**	14.9	9.78	mg/kg	06.05.18 03.35		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**23.5**	14.9	9.78	mg/kg	06.05.18 03.35		1
Total TPH	PHC635	**73.8**	14.9	9.78	mg/kg	06.05.18 03.35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.05.18 03.35	
o-Terphenyl	84-15-1	111	%	70-135	06.05.18 03.35	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-7(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-015	Date Collected:	05.25.18 12.45	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	05.31.18 17.05	Basis:	Wet Weight
Seq Number:	3052061			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	UX	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	05.31.18 23.24	UX	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	UX	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	05.31.18 23.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	118	%	74-126	05.31.18 23.24	
1,2-Dichloroethane-D4	17060-07-0	106	%	80-120	05.31.18 23.24	
Toluene-D8	2037-26-5	87	%	73-132	05.31.18 23.24	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-5(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-017	Date Collected:	05.25.18 13.11	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**172**	9.92	0.351	mg/kg	06.01.18 18.12		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.12	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.05.18 04.17	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**330**	14.9	9.78	mg/kg	06.05.18 04.17		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**67.1**	14.9	9.78	mg/kg	06.05.18 04.17		1
Total TPH	PHC635	**397**	14.9	9.78	mg/kg	06.05.18 04.17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.05.18 04.17	
o-Terphenyl	84-15-1	96	%	70-135	06.05.18 04.17	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-5(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-017	Date Collected:	05.25.18 13.11	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052076			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.01.18 19.49	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.01.18 19.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.01.18 19.49	
1,2-Dichloroethane-D4	17060-07-0	119	%	80-120	06.01.18 19.49	
Toluene-D8	2037-26-5	97	%	73-132	06.01.18 19.49	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-5(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-018	Date Collected:	05.25.18 13.11	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**334**	9.86	0.349	mg/kg	06.01.18 19.08		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	05.31.18 17.15	Basis:	Wet Weight
Seq Number:	3052304			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.80	14.9	9.80	mg/kg	06.05.18 05.20	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**814**	14.9	9.80	mg/kg	06.05.18 05.20		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**161**	14.9	9.80	mg/kg	06.05.18 05.20		1
Total TPH	PHC635	**975**	14.9	9.80	mg/kg	06.05.18 05.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	06.05.18 05.20	
o-Terphenyl	84-15-1	81	%	70-135	06.05.18 05.20	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

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Sample Id:	**SB-5(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-018	Date Collected:	05.25.18 13.11	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052076			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.05	U	1
Toluene	108-88-3	**0.000717**	0.000996	0.000498	mg/kg	06.01.18 20.05	J	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.05	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.01.18 20.05	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.05	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.05	U	1
Total BTEX		**0.000717**	0.000996	0.000498	mg/kg	06.01.18 20.05	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.01.18 20.05	
1,2-Dichloroethane-D4	17060-07-0	116	%	80-120	06.01.18 20.05	
Toluene-D8	2037-26-5	95	%	73-132	06.01.18 20.05	

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Sample Id:	**SB-10(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-020	Date Collected:	05.25.18 13.31	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**223**	9.84	0.348	mg/kg	06.01.18 19.19		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.33	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**27.9**	15.0	9.85	mg/kg	06.09.18 14.38		1
C10-C28 Diesel Range Organics	C10C28DRO	**914**	15.0	9.85	mg/kg	06.09.18 14.38		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**152**	15.0	9.85	mg/kg	06.09.18 14.38		1
Total TPH	PHC635	**1090**	15.0	9.85	mg/kg	06.09.18 14.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.09.18 14.38	
o-Terphenyl	84-15-1	92	%	70-135	06.09.18 14.38	

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Sample Id:	**SB-10(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-020	Date Collected:	05.25.18 13.31	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052076			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.01.18 20.21	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.01.18 20.21	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.01.18 20.21	
Toluene-D8	2037-26-5	91	%	73-132	06.01.18 20.21	

Certificate of Analytical Results 587348

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Sample Id:	**SB-10(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-021	Date Collected:	05.25.18 13.31	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.2**	9.88	0.350	mg/kg	06.01.18 19.31		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.42	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.09.18 15.41	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**43.0**	14.9	9.82	mg/kg	06.09.18 15.41		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**51.0**	14.9	9.82	mg/kg	06.09.18 15.41		1
Total TPH	PHC635	**94.0**	14.9	9.82	mg/kg	06.09.18 15.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.09.18 15.41	
o-Terphenyl	84-15-1	103	%	70-135	06.09.18 15.41	

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Sample Id:	**SB-10(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-021	Date Collected:	05.25.18 13.31	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052076			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.01.18 20.37	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.01.18 20.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.01.18 20.37	
1,2-Dichloroethane-D4	17060-07-0	110	%	80-120	06.01.18 20.37	
Toluene-D8	2037-26-5	89	%	73-132	06.01.18 20.37	

Certificate of Analytical Results 587348

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Sample Id:	**SB-11(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-022	Date Collected:	05.25.18 13.55	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.2**	9.94	0.352	mg/kg	06.01.18 19.42		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.45	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.87	15.0	9.87	mg/kg	06.09.18 16.02	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**30.3**	15.0	9.87	mg/kg	06.09.18 16.02		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**20.7**	15.0	9.87	mg/kg	06.09.18 16.02		1
Total TPH	PHC635	**51.0**	15.0	9.87	mg/kg	06.09.18 16.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.09.18 16.02	
o-Terphenyl	84-15-1	118	%	70-135	06.09.18 16.02	

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Sample Id:	**SB-11(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-022	Date Collected:	05.25.18 13.55	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	UX	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	UX	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	UX	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.02.18 01.44	UX	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	UX	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.02.18 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.02.18 01.44	
1,2-Dichloroethane-D4	17060-07-0	117	%	80-120	06.02.18 01.44	
Toluene-D8	2037-26-5	102	%	73-132	06.02.18 01.44	

Certificate of Analytical Results 587348

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Sample Id:	**SB-11(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-023	Date Collected:	05.25.18 13.55	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.40**	9.82	0.348	mg/kg	06.01.18 19.53	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.48	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.83	14.9	9.83	mg/kg	06.09.18 16.23	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**27.8**	14.9	9.83	mg/kg	06.09.18 16.23		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**22.6**	14.9	9.83	mg/kg	06.09.18 16.23		1
Total TPH	PHC635	**50.4**	14.9	9.83	mg/kg	06.09.18 16.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.09.18 16.23	
o-Terphenyl	84-15-1	123	%	70-135	06.09.18 16.23	

Certificate of Analytical Results 587348

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Sample Id:	**SB-11(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-023	Date Collected:	05.25.18 13.55	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.02.18 02.00	U	1
o-Xylene	95-47-6	<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1
Total Xylenes	1330-20-7	<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1
Total BTEX		<0.000496	0.000992	0.000496	mg/kg	06.02.18 02.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.02.18 02.00	
1,2-Dichloroethane-D4	17060-07-0	107	%	80-120	06.02.18 02.00	
Toluene-D8	2037-26-5	100	%	73-132	06.02.18 02.00	

Certificate of Analytical Results 587348

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Sample Id:	**SB-12(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-024	Date Collected:	05.25.18 14.30	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.44**	9.92	0.351	mg/kg	06.01.18 20.05	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.51	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.81	14.9	9.81	mg/kg	06.09.18 16.44	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**18.8**	14.9	9.81	mg/kg	06.09.18 16.44		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**18.8**	14.9	9.81	mg/kg	06.09.18 16.44		1
Total TPH	PHC635	**37.6**	14.9	9.81	mg/kg	06.09.18 16.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	06.09.18 16.44	
o-Terphenyl	84-15-1	114	%	70-135	06.09.18 16.44	

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Sample Id:	**SB-12(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-024	Date Collected:	05.25.18 14.30	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.02.18 02.16	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.02.18 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.02.18 02.16	
1,2-Dichloroethane-D4	17060-07-0	114	%	80-120	06.02.18 02.16	
Toluene-D8	2037-26-5	93	%	73-132	06.02.18 02.16	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-12(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-025	Date Collected:	05.25.18 14.30	Sample Depth:	1 - 2 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.55**	9.90	0.350	mg/kg	06.01.18 20.16	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.54	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.09.18 17.05	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.78	14.9	9.78	mg/kg	06.09.18 17.05	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.78	14.9	9.78	mg/kg	06.09.18 17.05	U	1
Total TPH	PHC635	<9.78	14.9	9.78	mg/kg	06.09.18 17.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	06.09.18 17.05	
o-Terphenyl	84-15-1	119	%	70-135	06.09.18 17.05	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-12(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-025	Date Collected:	05.25.18 14.30	Sample Depth:	1 - 2 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.02.18 02.33	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.02.18 02.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	119	%	74-126	06.02.18 02.33	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.02.18 02.33	
Toluene-D8	2037-26-5	98	%	73-132	06.02.18 02.33	

Certificate of Analytical Results 587348

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Venables Construction

Sample Id:	**SB-1(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-026	Date Collected:	05.25.18 15.10	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 08.31	Basis:	Wet Weight
Seq Number:	3052112			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**168**	9.94	0.352	mg/kg	06.01.18 20.27		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 12.57	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**26.3**	15.0	9.87	mg/kg	06.09.18 17.26		1
C10-C28 Diesel Range Organics	C10C28DRO	**22.9**	15.0	9.87	mg/kg	06.09.18 17.26		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**13.7**	15.0	9.87	mg/kg	06.09.18 17.26	J	1
Total TPH	PHC635	**62.9**	15.0	9.87	mg/kg	06.09.18 17.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	06.09.18 17.26	
o-Terphenyl	84-15-1	112	%	70-135	06.09.18 17.26	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-1(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-026	Date Collected:	05.25.18 15.10	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.02.18 02.49	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.02.18 02.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	112	%	74-126	06.02.18 02.49	
1,2-Dichloroethane-D4	17060-07-0	122	%	80-120	06.02.18 02.49	**
Toluene-D8	2037-26-5	93	%	73-132	06.02.18 02.49	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-1(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-027	Date Collected:	05.25.18 15.10	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**473**	9.86	0.349	mg/kg	06.01.18 23.17		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.00	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.7**	14.9	9.84	mg/kg	06.09.18 17.47		1
C10-C28 Diesel Range Organics	C10C28DRO	**44.2**	14.9	9.84	mg/kg	06.09.18 17.47		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**21.0**	14.9	9.84	mg/kg	06.09.18 17.47		1
Total TPH	PHC635	**93.9**	14.9	9.84	mg/kg	06.09.18 17.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	06.09.18 17.47	
o-Terphenyl	84-15-1	118	%	70-135	06.09.18 17.47	

Certificate of Analytical Results 587348

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Venables Construction

Sample Id:	**SB-1(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-027	Date Collected:	05.25.18 15.10	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.02.18 03.05	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	74-126	06.02.18 03.05	
1,2-Dichloroethane-D4	17060-07-0	109	%	80-120	06.02.18 03.05	
Toluene-D8	2037-26-5	87	%	73-132	06.02.18 03.05	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-2(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-028	Date Collected:	05.25.18 15.00	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**495**	9.90	0.350	mg/kg	06.01.18 21.35		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.03	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**27.6**	15.0	9.87	mg/kg	06.09.18 18.08		1
C10-C28 Diesel Range Organics	C10C28DRO	**90.7**	15.0	9.87	mg/kg	06.09.18 18.08		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**29.0**	15.0	9.87	mg/kg	06.09.18 18.08		1
Total TPH	PHC635	**147**	15.0	9.87	mg/kg	06.09.18 18.08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	06.09.18 18.08	
o-Terphenyl	84-15-1	124	%	70-135	06.09.18 18.08	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-2(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-028	Date Collected:	05.25.18 15.00	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.02.18 03.21	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.02.18 03.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	121	%	74-126	06.02.18 03.21	
1,2-Dichloroethane-D4	17060-07-0	105	%	80-120	06.02.18 03.21	
Toluene-D8	2037-26-5	90	%	73-132	06.02.18 03.21	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-2(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-029	Date Collected:	05.25.18 15.00	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**728**	9.82	0.348	mg/kg	06.01.18 22.09		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.06	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**27.5**	14.9	9.78	mg/kg	06.09.18 18.50		1
C10-C28 Diesel Range Organics	C10C28DRO	**50.9**	14.9	9.78	mg/kg	06.09.18 18.50		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**22.0**	14.9	9.78	mg/kg	06.09.18 18.50		1
Total TPH	PHC635	**100**	14.9	9.78	mg/kg	06.09.18 18.50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.09.18 18.50	
o-Terphenyl	84-15-1	120	%	70-135	06.09.18 18.50	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-2(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-029	Date Collected:	05.25.18 15.00	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.02.18 03.37	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.02.18 03.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	118	%	74-126	06.02.18 03.37	
1,2-Dichloroethane-D4	17060-07-0	115	%	80-120	06.02.18 03.37	
Toluene-D8	2037-26-5	88	%	73-132	06.02.18 03.37	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

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Sample Id:	**SB-3(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-030	Date Collected:	05.25.18 14.50	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**225**	9.78	0.346	mg/kg	06.01.18 22.20		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.09	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.09.18 19.11	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**14.8**	14.9	9.78	mg/kg	06.09.18 19.11	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**11.9**	14.9	9.78	mg/kg	06.09.18 19.11	J	1
Total TPH	PHC635	**26.7**	14.9	9.78	mg/kg	06.09.18 19.11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.09.18 19.11	
o-Terphenyl	84-15-1	118	%	70-135	06.09.18 19.11	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-3(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-030	Date Collected:	05.25.18 14.50	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.02.18 03.53	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.02.18 03.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	115	%	74-126	06.02.18 03.53	
1,2-Dichloroethane-D4	17060-07-0	111	%	80-120	06.02.18 03.53	
Toluene-D8	2037-26-5	94	%	73-132	06.02.18 03.53	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-3(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-031	Date Collected:	05.25.18 14.50	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**93.6**	9.75	0.345	mg/kg	06.01.18 22.32		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.12	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.8**	14.9	9.78	mg/kg	06.09.18 19.32		1
C10-C28 Diesel Range Organics	C10C28DRO	**148**	14.9	9.78	mg/kg	06.09.18 19.32		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**78.0**	14.9	9.78	mg/kg	06.09.18 19.32		1
Total TPH	PHC635	**255**	14.9	9.78	mg/kg	06.09.18 19.32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.09.18 19.32	
o-Terphenyl	84-15-1	102	%	70-135	06.09.18 19.32	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-3(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-031	Date Collected:	05.25.18 14.50	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.02.18 04.09	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	118	%	74-126	06.02.18 04.09	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.02.18 04.09	
Toluene-D8	2037-26-5	97	%	73-132	06.02.18 04.09	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-4(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-032	Date Collected:	05.25.18 14.40	Sample Depth:	0 - 1 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.86**	9.92	0.351	mg/kg	06.01.18 22.43	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.15	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.09.18 19.53	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**18.5**	14.9	9.82	mg/kg	06.09.18 19.53		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**12.4**	14.9	9.82	mg/kg	06.09.18 19.53	J	1
Total TPH	PHC635	**30.9**	14.9	9.82	mg/kg	06.09.18 19.53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.09.18 19.53	
o-Terphenyl	84-15-1	122	%	70-135	06.09.18 19.53	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**SB-4(0-1)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-032	Date Collected:	05.25.18 14.40	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.02.18 04.25	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.02.18 04.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.02.18 04.25	
1,2-Dichloroethane-D4	17060-07-0	120	%	80-120	06.02.18 04.25	
Toluene-D8	2037-26-5	90	%	73-132	06.02.18 04.25	

Certificate of Analytical Results 587348

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Sample Id:	**SB-4(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-033	Date Collected:	05.25.18 14.40	Sample Depth:	1 - 2 ft

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**30.1**	9.96	0.353	mg/kg	06.01.18 23.28		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.18	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**26.9**	14.9	9.79	mg/kg	06.09.18 20.14		1
C10-C28 Diesel Range Organics	C10C28DRO	**14.2**	14.9	9.79	mg/kg	06.09.18 20.14	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**11.1**	14.9	9.79	mg/kg	06.09.18 20.14	J	1
Total TPH	PHC635	**52.2**	14.9	9.79	mg/kg	06.09.18 20.14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	06.09.18 20.14	
o-Terphenyl	84-15-1	120	%	70-135	06.09.18 20.14	

Certificate of Analytical Results 587348

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Sample Id:	**SB-4(1-2)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-033	Date Collected:	05.25.18 14.40	Sample Depth:	1 - 2 ft
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.02.18 04.41	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.02.18 04.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	114	%	74-126	06.02.18 04.41	
1,2-Dichloroethane-D4	17060-07-0	110	%	80-120	06.02.18 04.41	
Toluene-D8	2037-26-5	92	%	73-132	06.02.18 04.41	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**Overspray Stockpile 1**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-034	Date Collected:	05.25.18 00.00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**578**	9.98	0.353	mg/kg	06.01.18 23.39		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.21	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**30.2**	15.0	9.85	mg/kg	06.09.18 20.36		1
C10-C28 Diesel Range Organics	C10C28DRO	**1640**	15.0	9.85	mg/kg	06.09.18 20.36		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**240**	15.0	9.85	mg/kg	06.09.18 20.36		1
Total TPH	PHC635	**1910**	15.0	9.85	mg/kg	06.09.18 20.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	06.09.18 20.36	
o-Terphenyl	84-15-1	104	%	70-135	06.09.18 20.36	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**Overspray Stockpile 1**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-034	Date Collected:	05.25.18 00.00		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.02.18 04.57	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.02.18 04.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	121	%	74-126	06.02.18 04.57	
1,2-Dichloroethane-D4	17060-07-0	118	%	80-120	06.02.18 04.57	
Toluene-D8	2037-26-5	95	%	73-132	06.02.18 04.57	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**Overspray Stockpile 2**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-035	Date Collected:	05.25.18 00.00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**206**	9.82	0.348	mg/kg	06.01.18 23.51		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.24	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**29.2**	14.9	9.78	mg/kg	06.09.18 20.56		1
C10-C28 Diesel Range Organics	C10C28DRO	**1140**	14.9	9.78	mg/kg	06.09.18 20.56		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**216**	14.9	9.78	mg/kg	06.09.18 20.56		1
Total TPH	PHC635	**1390**	14.9	9.78	mg/kg	06.09.18 20.56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.09.18 20.56	
o-Terphenyl	84-15-1	95	%	70-135	06.09.18 20.56	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**Overspray Stockpile 2**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-035	Date Collected:	05.25.18 00.00		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.02.18 05.13	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.02.18 05.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	115	%	74-126	06.02.18 05.13	
1,2-Dichloroethane-D4	17060-07-0	112	%	80-120	06.02.18 05.13	
Toluene-D8	2037-26-5	94	%	73-132	06.02.18 05.13	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**1(0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-036	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**574**	9.88	0.350	mg/kg	06.02.18 00.02		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.27	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.09.18 21.17	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**155**	14.9	9.78	mg/kg	06.09.18 21.17		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**65.9**	14.9	9.78	mg/kg	06.09.18 21.17		1
Total TPH	PHC635	**221**	14.9	9.78	mg/kg	06.09.18 21.17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.09.18 21.17	
o-Terphenyl	84-15-1	124	%	70-135	06.09.18 21.17	

Certificate of Analytical Results 587348

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Venables Construction

Sample Id:	**1(0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-036	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.02.18 05.30	U	1
Toluene	108-88-3	**0.000980**	0.00100	0.000500	mg/kg	06.02.18 05.30	J	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.02.18 05.30	U	1
m,p-Xylenes	179601-23-1	**0.00136**	0.00200	0.00100	mg/kg	06.02.18 05.30	J	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.02.18 05.30	U	1
Total Xylenes	1330-20-7	**0.00136**	0.00100	0.000500	mg/kg	06.02.18 05.30		1
Total BTEX		**0.00234**	0.00100	0.000500	mg/kg	06.02.18 05.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	121	%	74-126	06.02.18 05.30	
1,2-Dichloroethane-D4	17060-07-0	118	%	80-120	06.02.18 05.30	
Toluene-D8	2037-26-5	96	%	73-132	06.02.18 05.30	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**2(0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-037	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**676**	9.92	0.351	mg/kg	06.02.18 00.13		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.30	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.8**	15.0	9.86	mg/kg	06.09.18 21.38		1
C10-C28 Diesel Range Organics	C10C28DRO	**363**	15.0	9.86	mg/kg	06.09.18 21.38		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**65.5**	15.0	9.86	mg/kg	06.09.18 21.38		1
Total TPH	PHC635	**457**	15.0	9.86	mg/kg	06.09.18 21.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	06.09.18 21.38	
o-Terphenyl	84-15-1	110	%	70-135	06.09.18 21.38	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**2(0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-037	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 18.00	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.02.18 05.46	U	1
Toluene	108-88-3	**0.000896**	0.000996	0.000498	mg/kg	06.02.18 05.46	J	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.02.18 05.46	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.02.18 05.46	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.02.18 05.46	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.02.18 05.46	U	1
Total BTEX		**0.000896**	0.000996	0.000498	mg/kg	06.02.18 05.46	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	114	%	74-126	06.02.18 05.46	
1,2-Dichloroethane-D4	17060-07-0	126	%	80-120	06.02.18 05.46	**
Toluene-D8	2037-26-5	96	%	73-132	06.02.18 05.46	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**3 (0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-038	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.31.18 09.12	Basis:	Wet Weight
Seq Number:	3052114			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1110**	9.94	0.352	mg/kg	06.04.18 11.31	X	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.01.18 13.33	Basis:	Wet Weight
Seq Number:	3052888			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**32.2**	14.9	9.82	mg/kg	06.09.18 21.59		1
C10-C28 Diesel Range Organics	C10C28DRO	**444**	14.9	9.82	mg/kg	06.09.18 21.59		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**90.0**	14.9	9.82	mg/kg	06.09.18 21.59		1
Total TPH	PHC635	**566**	14.9	9.82	mg/kg	06.09.18 21.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	06.09.18 21.59	
o-Terphenyl	84-15-1	100	%	70-135	06.09.18 21.59	

Certificate of Analytical Results 587348

R2M Engineering, Lubbock, TX

Venables Construction

Sample Id:	**3 (0-6)**	Matrix:	Soil	Date Received:	05.25.18 16.10
Lab Sample Id:	587348-038	Date Collected:	05.25.18 00.00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.01.18 06.02	Basis:	Wet Weight
Seq Number:	3052225			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.02.18 06.02	U	1
Toluene	108-88-3	**0.00179**	0.00100	0.000500	mg/kg	06.02.18 06.02		1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.02.18 06.02	U	1
m,p-Xylenes	179601-23-1	**0.00154**	0.00200	0.00100	mg/kg	06.02.18 06.02	J	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.02.18 06.02	U	1
Total Xylenes	1330-20-7	**0.00154**	0.00100	0.000500	mg/kg	06.02.18 06.02		1
Total BTEX		**0.00333**	0.00100	0.000500	mg/kg	06.02.18 06.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	06.02.18 06.02	
1,2-Dichloroethane-D4	17060-07-0	107	%	80-120	06.02.18 06.02	
Toluene-D8	2037-26-5	93	%	73-132	06.02.18 06.02	

Flagging Criteria

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

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052112 Matrix: Solid Date Prep: 05.31.18
MB Sample Id: 7655709-1-BLK LCS Sample Id: 7655709-1-BKS LCSD Sample Id: 7655709-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	98.1	98	97.9	98	80-120	0	20	mg/kg	06.01.18 06:31	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052114 Matrix: Solid Date Prep: 05.31.18
MB Sample Id: 7655710-1-BLK LCS Sample Id: 7655710-1-BKS LCSD Sample Id: 7655710-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	98.0	98	96.4	96	80-120	2	20	mg/kg	06.01.18 21:12	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052112 Matrix: Soil Date Prep: 05.31.18
Parent Sample Id: 587348-001 MS Sample Id: 587348-001 S MSD Sample Id: 587348-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	268	99.4	363	96	362	95	80-120	0	20	mg/kg	06.01.18 07:05	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052112 Matrix: Soil Date Prep: 05.31.18
Parent Sample Id: 587348-017 MS Sample Id: 587348-017 S MSD Sample Id: 587348-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	172	99.2	268	97	268	97	80-120	0	20	mg/kg	06.01.18 18:45	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052114 Matrix: Soil Date Prep: 05.31.18
Parent Sample Id: 587348-028 MS Sample Id: 587348-028 S MSD Sample Id: 587348-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	495	99.2	590	96	585	91	80-120	1	20	mg/kg	06.01.18 21:46	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052114 Matrix: Soil Date Prep: 05.31.18
Parent Sample Id: 587348-038 MS Sample Id: 587348-038 S MSD Sample Id: 587348-038 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1670	98.6	1180	0	1180	0	80-120	0	20	mg/kg	06.02.18 00:36	X

Analytical Method: **TPH by SW 8015B** Prep Method: TX1005P
Seq Number: 3052304 Matrix: Solid Date Prep: 05.31.18
MB Sample Id: 7655779-1-BLK LCS Sample Id: 7655779-1-BKS LCSD Sample Id: 7655779-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	799	80	773	77	70-135	3	35	mg/kg	06.04.18 19:29	
C10-C28 Diesel Range Organics	<9.88	1000	894	89	871	87	70-135	3	35	mg/kg	06.04.18 19:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		119		115		70-135	%	06.04.18 19:29
o-Terphenyl	111		119		114		70-135	%	06.04.18 19:29

Analytical Method: **TPH by SW 8015B** Prep Method: SW8015P
Seq Number: 3052888 Matrix: Solid Date Prep: 06.01.18
MB Sample Id: 7655840-1-BLK LCS Sample Id: 7655840-1-BKS LCSD Sample Id: 7655840-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	879	88	888	89	70-135	1	35	mg/kg	06.09.18 13:56	
C10-C28 Diesel Range Organics	<9.88	1000	1020	102	1010	101	70-135	1	35	mg/kg	06.09.18 13:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		113		111		70-135	%	06.09.18 13:56
o-Terphenyl	109		107		103		70-135	%	06.09.18 13:56

Analytical Method: **TPH by SW 8015B** Prep Method: TX1005P
Seq Number: 3052304 Matrix: Soil Date Prep: 05.31.18
Parent Sample Id: 587089-001 MS Sample Id: 587089-001 S MSD Sample Id: 587089-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.78	990	802	81	825	83	70-135	3	35	mg/kg	06.04.18 20:55	
C10-C28 Diesel Range Organics	<9.78	990	895	90	930	94	70-135	4	35	mg/kg	06.04.18 20:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	06.04.18 20:55
o-Terphenyl	98		99		70-135	%	06.04.18 20:55

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: TPH by SW 8015B — Prep Method: SW8015P
Seq Number: 3052888 — Matrix: Soil — Date Prep: 06.01.18
Parent Sample Id: 587348-020 — MS Sample Id: 587348-020 S — MSD Sample Id: 587348-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	27.9	991	847	83	815	79	70-135	4	35	mg/kg	06.09.18 14:59	
C10-C28 Diesel Range Organics	914	991	1930	103	1830	92	70-135	5	35	mg/kg	06.09.18 14:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		104		70-135	%	06.09.18 14:59
o-Terphenyl	105		95		70-135	%	06.09.18 14:59

Analytical Method: BTEX by SW 8260B — Prep Method: SW5035A
Seq Number: 3052061 — Matrix: Solid — Date Prep: 05.31.18
MB Sample Id: 7655858-1-BLK — LCS Sample Id: 7655858-1-BKS — LCSD Sample Id: 7655858-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.100	100	0.0984	98	62-132	2	25	mg/kg	05.31.18 21:15	
Toluene	<0.000500	0.100	0.101	101	0.0997	100	66-124	1	25	mg/kg	05.31.18 21:15	
Ethylbenzene	<0.000500	0.100	0.0992	99	0.111	111	71-134	11	25	mg/kg	05.31.18 21:15	
m,p-Xylenes	<0.00100	0.200	0.201	101	0.223	112	69-128	10	25	mg/kg	05.31.18 21:15	
o-Xylene	<0.000500	0.100	0.0966	97	0.107	107	72-131	10	25	mg/kg	05.31.18 21:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	115		107		110		74-126	%	05.31.18 21:15
1,2-Dichloroethane-D4	104		118		109		80-120	%	05.31.18 21:15
Toluene-D8	93		104		106		73-132	%	05.31.18 21:15

Analytical Method: BTEX by SW 8260B — Prep Method: SW5030B
Seq Number: 3052076 — Matrix: Solid — Date Prep: 06.01.18
MB Sample Id: 7655881-1-BLK — LCS Sample Id: 7655881-1-BKS — LCSD Sample Id: 7655881-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0941	94	0.0980	98	62-132	4	25	mg/kg	06.01.18 11:04	
Toluene	<0.000500	0.100	0.0979	98	0.109	109	66-124	11	25	mg/kg	06.01.18 11:04	
Ethylbenzene	<0.000500	0.100	0.107	107	0.104	104	71-134	3	25	mg/kg	06.01.18 11:04	
m,p-Xylenes	<0.00100	0.200	0.224	112	0.217	109	69-128	3	25	mg/kg	06.01.18 11:04	
o-Xylene	<0.000500	0.100	0.104	104	0.104	104	72-131	0	25	mg/kg	06.01.18 11:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	105		99		103		74-126	%	06.01.18 11:04
1,2-Dichloroethane-D4	97		114		106		80-120	%	06.01.18 11:04
Toluene-D8	93		109		106		73-132	%	06.01.18 11:04

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052225 Matrix: Solid Date Prep: 06.01.18

MB Sample Id: 7655972-1-BLK LCS Sample Id: 7655972-1-BKS LCSD Sample Id: 7655972-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0957	96	0.0841	84	62-132	13	25	mg/kg	06.01.18 23:35	
Toluene	<0.000500	0.100	0.100	100	0.0881	88	66-124	13	25	mg/kg	06.01.18 23:35	
Ethylbenzene	<0.000500	0.100	0.0963	96	0.0864	86	71-134	11	25	mg/kg	06.01.18 23:35	
m,p-Xylenes	<0.00100	0.200	0.203	102	0.185	93	69-128	9	25	mg/kg	06.01.18 23:35	
o-Xylene	<0.000500	0.100	0.0954	95	0.0857	86	72-131	11	25	mg/kg	06.01.18 23:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	105		102		104		74-126	%	06.01.18 23:35
1,2-Dichloroethane-D4	92		106		96		80-120	%	06.01.18 23:35
Toluene-D8	98		105		100		73-132	%	06.01.18 23:35

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052372 Matrix: Solid Date Prep: 06.04.18

MB Sample Id: 7656051-1-BLK LCS Sample Id: 7656051-1-BKS LCSD Sample Id: 7656051-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0967	97	0.0958	96	62-132	1	25	mg/kg	06.04.18 09:49	
Toluene	<0.000500	0.100	0.105	105	0.0977	98	66-124	7	25	mg/kg	06.04.18 09:49	
Ethylbenzene	<0.000500	0.100	0.107	107	0.0982	98	71-134	9	25	mg/kg	06.04.18 09:49	
m,p-Xylenes	<0.00100	0.200	0.220	110	0.206	103	69-128	7	25	mg/kg	06.04.18 09:49	
o-Xylene	<0.000500	0.100	0.108	108	0.0960	96	72-131	12	25	mg/kg	06.04.18 09:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	106		108		105		74-126	%	06.04.18 09:49
1,2-Dichloroethane-D4	104		103		110		80-120	%	06.04.18 09:49
Toluene-D8	95		110		109		73-132	%	06.04.18 09:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052061 Matrix: Soil Date Prep: 05.31.18

Parent Sample Id: 587348-015 MS Sample Id: 587348-015 S MSD Sample Id: 587348-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000502	0.100	0.0753	75	0.0720	72	62-132	4	25	mg/kg	05.31.18 21:48	
Toluene	<0.000502	0.100	0.0734	73	0.0683	69	66-124	7	25	mg/kg	05.31.18 21:48	
Ethylbenzene	<0.000502	0.100	0.0676	68	0.0619	62	71-134	9	25	mg/kg	05.31.18 21:48	X
m,p-Xylenes	<0.00100	0.201	0.135	67	0.127	64	69-128	6	25	mg/kg	05.31.18 21:48	X
o-Xylene	<0.000502	0.100	0.0594	59	0.0555	56	72-131	7	25	mg/kg	05.31.18 21:48	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	106		111		74-126	%	05.31.18 21:48
1,2-Dichloroethane-D4	109		105		80-120	%	05.31.18 21:48
Toluene-D8	99		94		73-132	%	05.31.18 21:48

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5030B

Seq Number: 3052076 Matrix: Solid Date Prep: 06.01.18

Parent Sample Id: 587712-003 MS Sample Id: 587712-003 S MSD Sample Id: 587712-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00406	0.106	0.0880	79	0.0864	78	62-132	2	25	mg/kg	06.01.18 12:46	
Toluene	0.0292	0.106	0.0877	55	0.0828	51	66-124	6	25	mg/kg	06.01.18 12:46	X
Ethylbenzene	0.00891	0.106	0.0770	64	0.0754	63	71-134	2	25	mg/kg	06.01.18 12:46	X
m,p-Xylenes	0.0194	0.211	0.155	64	0.152	63	69-128	2	25	mg/kg	06.01.18 12:46	X
o-Xylene	0.00661	0.106	0.0652	55	0.0682	59	72-131	4	25	mg/kg	06.01.18 12:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	106		105		74-126	%	06.01.18 12:46
1,2-Dichloroethane-D4	118		117		80-120	%	06.01.18 12:46
Toluene-D8	100		107		73-132	%	06.01.18 12:46

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 587348

R2M Engineering

Venables Construction

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052225 Matrix: Soil Date Prep: 06.01.18

Parent Sample Id: 587348-022 MS Sample Id: 587348-022 S MSD Sample Id: 587348-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000503	0.101	0.0607	60	0.0671	68	62-132	10	25	mg/kg	06.02.18 00:08	X
Toluene	<0.000503	0.101	0.0529	52	0.0587	59	66-124	10	25	mg/kg	06.02.18 00:08	X
Ethylbenzene	<0.000503	0.101	0.0461	46	0.0509	51	71-134	10	25	mg/kg	06.02.18 00:08	X
m,p-Xylenes	<0.00101	0.201	0.0884	44	0.101	51	69-128	13	25	mg/kg	06.02.18 00:08	X
o-Xylene	<0.000503	0.101	0.0368	36	0.0411	41	72-131	11	25	mg/kg	06.02.18 00:08	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	110		108		74-126	%	06.02.18 00:08
1,2-Dichloroethane-D4	114		120		80-120	%	06.02.18 00:08
Toluene-D8	96		98		73-132	%	06.02.18 00:08

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052372 Matrix: Solid Date Prep: 06.04.18

Parent Sample Id: 587559-001 MS Sample Id: 587559-001 S MSD Sample Id: 587559-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000499	0.0998	0.0706	71	0.0753	75	62-132	6	25	mg/kg	06.04.18 11:56	
Toluene	0.00717	0.0998	0.0623	55	0.0783	71	66-124	23	25	mg/kg	06.04.18 11:56	X
Ethylbenzene	<0.000499	0.0998	0.0728	73	0.0798	80	71-134	9	25	mg/kg	06.04.18 11:56	
m,p-Xylenes	0.00108	0.200	0.146	72	0.167	83	69-128	13	25	mg/kg	06.04.18 11:56	
o-Xylene	<0.000499	0.0998	0.0616	62	0.0703	70	72-131	13	25	mg/kg	06.04.18 11:56	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	106		111		74-126	%	06.04.18 11:56
1,2-Dichloroethane-D4	128	**	109		80-120	%	06.04.18 11:56
Toluene-D8	77		92		73-132	%	06.04.18 11:56

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

CHAIN OF CUSTODY

XENCO LABORATORIES

Page 1 Of 1

Revision 2016.1

Setting the Standard since 1990

Stafford, TX (281) 240-4200 | Dallas, TX (214) 902-0300 | El Paso, TX (915) 585-3443 | Lubbock, TX (806) 794-1296 | Midland, TX (432) 704-5440 | San Antonio, TX (210) 509-3334 | Phoenix, AZ (480) 355-0900 | Service Center - Baton Rouge, LA (832) 712-8143 | Service Center- Amarillo, TX (806)678-4514 | Service Center- Hobbs, NM (575) 392-7550

www.xenco.com

Xenco Quote #: | Xenco Job #: 587348

587348

Client / Reporting Information

Company Name / Branch: RZM ENG

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables Construction

Project Location: Hobbs NM

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH Ext	Chlorides	Field Comments
001	SB-17	0"-6"	5-25	1125	S	1								X	X	X	X	
002	"	6"-12"													X	X	X	
003	"	12"-18"																Hold
004	"	18"-24"																Hold
005	SB-8	0"-6"													X	X	X	
006	"	6"-12"													X	X	X	
007	"	12"-18"																Hold
008	"	18"-24"																Hold
009	SB-9	0-1'													X	X	X	
010	"	1'-2'													X	X	X	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MP	5-25 1610	1	2		2
2	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	3		3	4		4
3	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp / Thermo. Corr. Factor
	5		5			IR3 10.2/10.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

Page 2 Of 4

Revision 2016.1

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, TX (281) 240-4200
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El Paso, TX (915) 585-3443
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Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550
www.xenco.com

Xenco Quote #

Xenco Job # 587348

Client / Reporting Information	Project Information
Company Name / Branch:	Project Name/Number:
Company Address:	Project Location:
Email: Phone No:	Invoice To:
Project Contact:	PO Number:
Samplers's Name:	

Analytical Information: BTEX, TPH EXT, Chloride

Matrix Codes: W = Water; S = Soil/Sed/Solid; GW = Ground Water; DW = Drinking Water; P = Product; SW = Surface Water; SL - Sludge; OW = Ocean/Sea Water; WI = Wipe; O = Oil; WW = Waste Water; A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
011	SB-6	0-1'	5-25	1230	S	1								X	
012	"	1-2'													
013	"	2'-3		1											
014	SB-7	0-1'		1245											Hold
015	"	1-2'		1											
016	"	2-3'													
017	SB-5	0-1'		1311											Hold
018	"	1-2'		1											
019	"	2-3'													
020	SB-16	0-1'		1331											Hold

Turnaround Time (Business days)

- ☐ Same Day TAT
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TAT Starts Day received by Lab, if received by 5:00 pm

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- ☐ Level IV (Full Data Pkg /raw data)
- ☐ Level III Std QC+ Forms
- ☐ TRRP Level IV
- ☐ Level 3 (CLP Forms)
- ☐ UST / RG -411
- ☐ Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:
1	MPS	5-25 1610	1
2	Relinquished By:	Date Time:	Received By: 2
3	Relinquished by:	Date Time:	Received By: 3
4	Relinquished By:	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5

Custody Seal # | Preserved where applicable ☑ | On Ice ☐ | Cooler Temp. 10.2 | Thermo. Corr. Factor 10.0

CHAIN OF CUSTODY

Page 3 Of 4

Revision 2016.1

XENCO LABORATORIES

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www.xenco.com

Xenco Quote #:

Xenco Job #: 587348

Client / Reporting Information	Project Information
Company Name / Branch:	Project Name/Number:
Company Address:	Project Location:
Email: Phone No:	Invoice To:
Project Contact:	PO Number:
Samplers's Name:	

Matrix Codes: W = Water, S = Soil/Sed/Solid, GW = Ground Water, DW = Drinking Water, P = Product, SW = Surface Water, SL - Sludge, OW = Ocean/Sea Water, WI = Wipe, O = Oil, WW = Waste Water, A = Air

Lab ID	No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	Chloride	Field Comments
021	1	SB-10	1-2'	5-25	1381	S	1								Y	X	X	Y	
022	2	SB-11	0-1'	↓	1355	↓	↓								↓	↓	↓	↓	
023	3	〃	1-2'	↓	1355	↓	↓								↓	↓	↓	↓	
024	4	SB-12	0-1'	↓	1430	↓	↓								↓	↓	↓	↓	
025	5	〃	1-2'	↓	1430	↓	↓								↓	↓	↓	↓	
026	6	SB-1	0-1'	↓	1510	↓	↓								↓	↓	↓	↓	
027	7	〃	1-2'	↓	1510	↓	↓								↓	↓	↓	↓	
028	8	SB-2	0-1'	↓	1500	↓	↓								↓	↓	↓	↓	
029	9	〃	1-2'	↓	1500	↓	↓								↓	↓	↓	↓	
	~~10~~																		

Turnaround Time (Business days)

- [ ] Same Day TAT
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Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 MBS	5-25 1610	1 [signature]	2		2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor
5		5		✓	1.3/0.2/1.0

CHAIN OF CUSTODY

Page 4 Of 4

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www.xenco.com

Xenco Quote # | Xenco Job # 587348

Client / Reporting Information

Company Name / Branch: RZM

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables

Project Location: Hobbs

Invoice To:

PO Number:

Analytical Information

BTEX | TPH Ext | Chlorides

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	SB-3	0-1'	5.25	1450	S	1								X	
2	"	1-2'		1450											
3	SB-4	0-1'		1440											
4	"	1-2'		1440											
5	Overspray Stockpile 1														
6	Overspray Stockpile 2														
7	1	0-6"													
8	2	0-6"													
9	3	0-6"													
10															

Turnaround Time (Business days)

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Notes:

FED-EX / UPS: Tracking #

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	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MP	5.25.20	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor
			5			1.6 2 RS

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Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-001	S	SB-17(0"-6")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-001	S	SB-17(0"-6")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-001	S	SB-17(0"-6")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-002	S	SB-17(6"-12")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-002	S	SB-17(6"-12")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-002	S	SB-17(6"-12")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-003	S	SB-17(12"-18")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-003	S	SB-17(12"-18")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-003	S	SB-17(12"-18")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-003	S	SB-17(12"-18")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-003	S	SB-17(12"-18")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-004	S	SB-17(18"-24")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-004	S	SB-17(18"-24")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-004	S	SB-17(18"-24")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-004	S	SB-17(18"-24")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-004	S	SB-17(18"-24")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-005	S	SB-8(0"-6")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-005	S	SB-8(0"-6")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-005	S	SB-8(0"-6")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-006	S	SB-8(6"-18")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-006	S	SB-8(6"-18")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-006	S	SB-8(6"-18")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-007	S	SB-8(12"-18")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-007	S	SB-8(12"-18")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-007	S	SB-8(12"-18")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	

Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-007	S	SB-8(12"-18")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-007	S	SB-8(12"-18")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-008	S	SB-8(18"-24")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-008	S	SB-8(18"-24")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-008	S	SB-8(18"-24")	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-008	S	SB-8(18"-24")	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-008	S	SB-8(18"-24")	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-009	S	SB-9(0-12)	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-009	S	SB-9(0-12)	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-009	S	SB-9(0-12)	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-010	S	SB-9(1-2)	05/25/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-010	S	SB-9(1-2)	05/25/18 11:25	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-010	S	SB-9(1-2)	05/25/18 11:25	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-011	S	SB-6(0-1)	05/25/18 12:30	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-011	S	SB-6(0-1)	05/25/18 12:30	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-011	S	SB-6(0-1)	05/25/18 12:30	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-012	S	SB-6(1-2)	05/25/18 12:30	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-012	S	SB-6(1-2)	05/25/18 12:30	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-012	S	SB-6(1-2)	05/25/18 12:30	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-013	S	SB-6(2-3)	05/25/18 12:30	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-013	S	SB-6(2-3)	05/25/18 12:30	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-013	S	SB-6(2-3)	05/25/18 12:30	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-013	S	SB-6(2-3)	05/25/18 12:30	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-013	S	SB-6(2-3)	05/25/18 12:30	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-014	S	SB-7(0-1)	05/25/18 12:45	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	

Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-014	S	SB-7(0-1)	05/25/18 12:45	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-014	S	SB-7(0-1)	05/25/18 12:45	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-015	S	SB-7(1-2)	05/25/18 12:45	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-015	S	SB-7(1-2)	05/25/18 12:45	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-015	S	SB-7(1-2)	05/25/18 12:45	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-016	S	SB-7(2-3)	05/25/18 12:45	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-016	S	SB-7(2-3)	05/25/18 12:45	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-016	S	SB-7(2-3)	05/25/18 12:45	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-016	S	SB-7(2-3)	05/25/18 12:45	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-016	S	SB-7(2-3)	05/25/18 12:45	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-017	S	SB-5(0-1)	05/25/18 13:11	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-017	S	SB-5(0-1)	05/25/18 13:11	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-017	S	SB-5(0-1)	05/25/18 13:11	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-018	S	SB-5(1-2)	05/25/18 13:11	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-018	S	SB-5(1-2)	05/25/18 13:11	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-018	S	SB-5(1-2)	05/25/18 13:11	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-019	S	SB-5(2-3)	05/25/18 13:11	SW8260BTX	BTEX by SW 8260B	HOLD	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-019	S	SB-5(2-3)	05/25/18 13:11	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-019	S	SB-5(2-3)	05/25/18 13:11	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-019	S	SB-5(2-3)	05/25/18 13:11	E300	Inorganic Anions by EPA 300/300.1	HOLD	06/22/18	HTA	CL	
587348-019	S	SB-5(2-3)	05/25/18 13:11	SW8015B_NM	TPH by SW 8015B	HOLD	06/08/18	HTA	PHCC10C28	
587348-020	S	SB-10(0-1)	05/25/18 13:31	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-020	S	SB-10(0-1)	05/25/18 13:31	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-020	S	SB-10(0-1)	05/25/18 13:31	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-021	S	SB-10(1-2)	05/25/18 13:31	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	

Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-021	S	SB-10(1-2)	05/25/18 13:31	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-021	S	SB-10(1-2)	05/25/18 13:31	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-022	S	SB-11(0-1)	05/25/18 13:55	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-022	S	SB-11(0-1)	05/25/18 13:55	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-022	S	SB-11(0-1)	05/25/18 13:55	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-023	S	SB-11(1-2)	05/25/18 13:55	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-023	S	SB-11(1-2)	05/25/18 13:55	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-023	S	SB-11(1-2)	05/25/18 13:55	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-024	S	SB-12(0-1)	05/25/18 14:30	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-024	S	SB-12(0-1)	05/25/18 14:30	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-024	S	SB-12(0-1)	05/25/18 14:30	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-025	S	SB-12(1-2)	05/25/18 14:30	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-025	S	SB-12(1-2)	05/25/18 14:30	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-025	S	SB-12(1-2)	05/25/18 14:30	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-026	S	SB-1(0-1)	05/25/18 15:10	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-026	S	SB-1(0-1)	05/25/18 15:10	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-026	S	SB-1(0-1)	05/25/18 15:10	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-027	S	SB-1(1-2)	05/25/18 15:10	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-027	S	SB-1(1-2)	05/25/18 15:10	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-027	S	SB-1(1-2)	05/25/18 15:10	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-028	S	SB-2(0-1)	05/25/18 15:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-028	S	SB-2(0-1)	05/25/18 15:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-028	S	SB-2(0-1)	05/25/18 15:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-029	S	SB-2(1-2)	05/25/18 15:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-029	S	SB-2(1-2)	05/25/18 15:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	

Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-029	S	SB-2(1-2)	05/25/18 15:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-030	S	SB-3(0-1)	05/25/18 14:50	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-030	S	SB-3(0-1)	05/25/18 14:50	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-030	S	SB-3(0-1)	05/25/18 14:50	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-031	S	SB-3(1-2)	05/25/18 14:50	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-031	S	SB-3(1-2)	05/25/18 14:50	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-031	S	SB-3(1-2)	05/25/18 14:50	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-032	S	SB-4(0-1)	05/25/18 14:40	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-032	S	SB-4(0-1)	05/25/18 14:40	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-032	S	SB-4(0-1)	05/25/18 14:40	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-033	S	SB-4(1-2)	05/25/18 14:40	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-033	S	SB-4(1-2)	05/25/18 14:40	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-033	S	SB-4(1-2)	05/25/18 14:40	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-034	S	Overspray Stockpile 1	05/25/18 00:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-034	S	Overspray Stockpile 1	05/25/18 00:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-034	S	Overspray Stockpile 1	05/25/18 00:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-035	S	Overspray Stockpile 2	05/25/18 00:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-035	S	Overspray Stockpile 2	05/25/18 00:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-035	S	Overspray Stockpile 2	05/25/18 00:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-036	S	1(0-6)	05/25/18 00:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-036	S	1(0-6)	05/25/18 00:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-036	S	1(0-6)	05/25/18 00:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-037	S	2(0-6)	05/25/18 00:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	
587348-037	S	2(0-6)	05/25/18 00:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-037	S	2(0-6)	05/25/18 00:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	

Inter-Office Shipment

IOS Number **107870**

Date/Time: 05/25/18 17:45
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 772330632620

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587348-038	S	3 (0-6)	05/25/18 00:00	SW8015B_NM	TPH by SW 8015B	06/01/18	06/08/18	HTA	PHCC10C28	
587348-038	S	3 (0-6)	05/25/18 00:00	E300	Inorganic Anions by EPA 300/300.1	06/01/18	06/22/18	HTA	CL	
587348-038	S	3 (0-6)	05/25/18 00:00	SW8260BTX	BTEX by SW 8260B	06/01/18	06/08/18	HTA	BZ BZME EBZ XYLMP X	

Inter Office Shipment or Sample Comments:

Relinquished By: Brenda Ward

Date Relinquished: 05/29/2018

Received By: Maria Paula Guerra

Date Received: 05/26/2018 09:20

Cooler Temperature: 1.1

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 107870

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : IR:HOU068

Sent By: Brenda Ward **Date Sent:** 05/25/2018 05:45 PM

Received By: Maria Paula Guerra **Date Received:** 05/26/2018 09:20 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 05/26/2018

Maria Paula Guerra

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: R2M Engineering

Date/ Time Received: 05/25/2018 04:10:00 PM

Work Order #: 587348

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	10.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Houston Xenco
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brenda Ward Date: 05/29/2018

Checklist reviewed by: Holly Taylor Date: 05/29/2018

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-001		587854-003		587854-005		587854-007		587854-012		587854-013	
	Field Id:	Con 2001		Con 2002		Con 2003		Con 2004		SB-2.2		SB-2.3	
	Depth:									0-1		0-1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 07:30		May-31-18 07:33		May-31-18 07:39		May-31-18 07:44		May-31-18 08:30		May-31-18 08:40	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:45		Jun-08-18 18:30		Jun-08-18 18:30		Jun-09-18 12:05		Jun-04-18 18:10		Jun-04-18 18:25	
	Analyzed:	Jun-07-18 21:52		Jun-09-18 01:21		Jun-09-18 01:05		Jun-09-18 13:41		Jun-04-18 22:36		Jun-05-18 00:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000499	0.000998	<0.000502	0.00100	<0.000499	0.000998	<0.000494	0.000988	<0.000497	0.000994	<0.000496	0.000992
Toluene		<0.000499	0.000998	<0.000502	0.00100	0.00257	0.000998	0.00335	0.000988	<0.000497	0.000994	<0.000496	0.000992
Ethylbenzene		<0.000499	0.000998	<0.000502	0.00100	<0.000499	0.000998	<0.000494	0.000988	<0.000497	0.000994	<0.000496	0.000992
m,p-Xylenes		<0.000998	0.00200	<0.00100	0.00201	<0.000998	0.00200	0.00203	0.00198	<0.000994	0.00199	<0.000992	0.00198
o-Xylene		<0.000499	0.000998	<0.000502	0.00100	0.00104	0.000998	0.000879 J	0.000988	<0.000497	0.000994	<0.000496	0.000992
Total Xylenes		<0.000499	0.000998	<0.000502	0.00100	0.00104	0.000998	0.00291	0.000988	<0.000497	0.000994	<0.000496	0.000992
Total BTEX		<0.000499	0.000998	<0.000502	0.00100	0.00361	0.000998	0.00626	0.000988	<0.000497	0.000994	<0.000496	0.000992
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-06-18 09:08		Jun-05-18 17:04		Jun-05-18 17:04	
	Analyzed:	Jun-06-18 08:04		Jun-06-18 08:18		Jun-06-18 08:31		Jun-07-18 06:03		Jun-06-18 08:45		Jun-06-18 09:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		592	9.88	11.7	9.94	7.65 J	9.75	884 X	9.94	13.2	9.82	17.6	9.92
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 13:30		Jun-07-18 13:33		Jun-07-18 13:36		Jun-08-18 12:15		Jun-07-18 13:21		Jun-07-18 13:39	
	Analyzed:	Jun-10-18 06:43		Jun-10-18 07:04		Jun-10-18 07:25		Jun-11-18 02:48		Jun-09-18 23:44		Jun-10-18 00:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		59.3	14.9	78.2	14.9	102	14.9	161	15.0	<9.86	15.0	<9.81	14.9
C10-C28 Diesel Range Organics		2040	14.9	899	14.9	1870	14.9	4200	15.0	<9.86	15.0	<9.81	14.9
C28-C35 Oil Range Hydrocarbons		216	14.9	97.6	14.9	222	14.9	429	15.0	<9.86	15.0	<9.81	14.9
Total TPH		2320	14.9	1070	14.9	2190	14.9	4790	15.0	<9.86	15.0	<9.81	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-014		587854-023		587854-024		587854-025		587854-026		587854-027	
	Field Id:	SB-2.4		Stockpile 3		Stockpile 4		Pit Bottom		SW Confirmation 0-1		SW Confirmation 1-2	
	Depth:	0-1		0-1		0-1		0-1		0-1		1-2	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 08:51		May-31-18 11:00		May-31-18 13:30		May-31-18 13:25		May-31-18 11:25		May-31-18 11:25	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-04-18 18:25		Jun-07-18 16:45		Jun-04-18 18:25		Jun-09-18 11:40		Jun-04-18 18:25		Jun-04-18 18:25	
	Analyzed:	Jun-05-18 00:45		Jun-07-18 22:08		Jun-05-18 01:01		Jun-09-18 12:53		Jun-05-18 01:18		Jun-05-18 01:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000500	0.00100	<0.000500	0.00100	<0.000496	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
Toluene		<0.000500	0.00100	<0.000500	0.00100	<0.000496	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
Ethylbenzene		<0.000500	0.00100	<0.000500	0.00100	<0.000496	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
m,p-Xylenes		<0.00100	0.00200	<0.00100	0.00200	<0.000992	0.00198	<0.00100	0.00200	<0.000998	0.00200	<0.000992	0.00198
o-Xylene		<0.000500	0.00100	<0.000500	0.00100	0.00548	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
Total Xylenes		<0.000500	0.00100	<0.000500	0.00100	0.00548	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
Total BTEX		<0.000500	0.00100	<0.000500	0.00100	0.00548	0.000992	<0.000501	0.00100	<0.000499	0.000998	<0.000496	0.000992
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-05-18 17:04		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-05-18 17:04		Jun-05-18 17:04	
	Analyzed:	Jun-06-18 09:41		Jun-07-18 06:36		Jun-07-18 06:46		Jun-07-18 06:57		Jun-06-18 09:54		Jun-06-18 16:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		35.8	9.94	477	9.86	65.4	9.88	10.6	9.90	1.64 J	9.96	2.97 J	9.94
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 13:42		Jun-08-18 12:18		Jun-08-18 12:21		Jun-08-18 12:24		Jun-07-18 13:45		Jun-07-18 13:48	
	Analyzed:	Jun-10-18 01:08		Jun-10-18 21:54		Jun-10-18 22:15		Jun-10-18 22:36		Jun-10-18 01:29		Jun-10-18 01:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.84	14.9	<9.84	14.9	28.1	14.9	24.6	15.0	<9.84	14.9	<9.85	15.0
C10-C28 Diesel Range Organics		<9.84	14.9	92.4	14.9	52.1	14.9	15.0 J	15.0	<9.84	14.9	<9.85	15.0
C28-C35 Oil Range Hydrocarbons		<9.84	14.9	25.4	14.9	14.7 J	14.9	10.4 J	15.0	<9.84	14.9	<9.85	15.0
Total TPH		<9.84	14.9	118	14.9	94.9	14.9	50.0	15.0	<9.84	14.9	<9.85	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-028		587854-029		587854-030		587854-031		587854-032		587854-033	
	Field Id:	SW Confirmation 2-3		SW Confirmation 3-4		SW Confirmation 4-5		SW Confirmation 5-6		SW Confirmation 6-7		SW Confirmation 7-8	
	Depth:	2-3		3-4		4-5		5-6		6-7		7-8	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:25		May-31-18 11:25		May-31-18 11:25		May-31-18 11:25		May-31-18 11:25		May-31-18 11:25	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-09-18 11:40		Jun-04-18 18:25		Jun-04-18 18:25		Jun-04-18 18:25		Jun-07-18 16:45		Jun-07-18 16:45	
	Analyzed:	Jun-09-18 13:09		Jun-05-18 01:50		Jun-05-18 02:06		Jun-05-18 02:22		Jun-07-18 18:21		Jun-07-18 18:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000502	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
Toluene		0.000602 JX	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
Ethylbenzene		<0.000502	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
m,p-Xylenes		<0.00100	0.00201	<0.00100	0.00200	<0.000994	0.00199	<0.000996	0.00199	<0.00100	0.00201	<0.00100	0.00201
o-Xylene		<0.000502	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
Total Xylenes		<0.000502	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
Total BTEX		0.000602 J	0.00100	<0.000501	0.00100	<0.000497	0.000994	<0.000498	0.000996	<0.000502	0.00100	<0.000502	0.00100
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04	
	Analyzed:	Jun-06-18 16:51		Jun-06-18 17:04		Jun-06-18 17:18		Jun-06-18 17:32		Jun-06-18 18:41		Jun-06-18 18:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1.50 J	9.92	1.04 J	9.82	3.10 J	9.78	4.84 J	9.75	16.3	9.77	21.5	9.78
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 13:51		Jun-07-18 13:54		Jun-07-18 13:57		Jun-07-18 14:00		Jun-07-18 14:03		Jun-07-18 14:06	
	Analyzed:	Jun-10-18 02:11		Jun-10-18 02:32		Jun-10-18 02:52		Jun-10-18 03:14		Jun-10-18 03:35		Jun-10-18 04:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.85	15.0	<9.82	14.9	<9.84	14.9	<9.78	14.9	<9.78	14.9	<9.82	14.9
C10-C28 Diesel Range Organics		<9.85	15.0	<9.82	14.9	<9.84	14.9	<9.78	14.9	<9.78	14.9	<9.82	14.9
C28-C35 Oil Range Hydrocarbons		<9.85	15.0	<9.82	14.9	<9.84	14.9	<9.78	14.9	<9.78	14.9	<9.82	14.9
Total TPH		<9.85	15.0	<9.82	14.9	<9.84	14.9	<9.78	14.9	<9.78	14.9	<9.82	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-034		587854-035		587854-036		587854-037		587854-038		587854-039	
	Field Id:	SW Confirmation 8-9		SW Confirmation 9-10		SE Confirmation 0-1		SE Confirmation 1-2		SE Confirmation 2-3		SE Confirmation 3-4	
	Depth:	8-9		9-10		0-1		1-2		2-3		3-4	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:25		May-31-18 11:25		May-31-18 11:15		May-31-18 11:15		May-31-18 11:15		May-31-18 11:15	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-04-18 18:25		Jun-04-18 18:25		Jun-04-18 18:25		Jun-04-18 18:25		Jun-14-18 08:57		Jun-04-18 18:25	
	Analyzed:	Jun-05-18 02:38		Jun-05-18 02:54		Jun-05-18 03:11		Jun-05-18 03:27		Jun-14-18 13:48		Jun-05-18 03:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000500	0.00100	<0.000502	0.00100	<0.000500	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
Toluene		<0.000500	0.00100	<0.000502	0.00100	0.000740 J	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
Ethylbenzene		<0.000500	0.00100	<0.000502	0.00100	<0.000500	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
m,p-Xylenes		<0.00100	0.00200	<0.00100	0.00201	<0.00100	0.00200	<0.00100	0.00200	<0.000992	0.00198	<0.000996	0.00199
o-Xylene		<0.000500	0.00100	<0.000502	0.00100	<0.000500	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
Total Xylenes		<0.000500	0.00100	<0.000502	0.00100	<0.000500	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
Total BTEX		<0.000500	0.00100	<0.000502	0.00100	0.000740 J	0.00100	<0.000501	0.00100	<0.000496	0.000992	<0.000498	0.000996
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-05-18 17:04		Jun-06-18 09:08	
	Analyzed:	Jun-06-18 19:09		Jun-06-18 19:23		Jun-06-18 19:37		Jun-06-18 19:51		Jun-06-18 20:04		Jun-07-18 07:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.3	9.73	8.76 J	9.75	2.97 J	9.77	3.05 J	9.78	2.27 J	9.88	2.43 J	9.92
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 14:09		Jun-07-18 14:12		Jun-07-18 14:15		Jun-07-18 14:18		Jun-07-18 14:21		Jun-07-18 14:24	
	Analyzed:	Jun-10-18 04:37		Jun-10-18 04:58		Jun-10-18 05:19		Jun-10-18 05:40		Jun-10-18 06:01		Jun-10-18 06:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.79	14.9	<9.80	14.9	<9.80	14.9	<9.82	14.9	<9.82	14.9	<9.85	15.0
C10-C28 Diesel Range Organics		<9.79	14.9	<9.80	14.9	<9.80	14.9	<9.82	14.9	<9.82	14.9	<9.85	15.0
C28-C35 Oil Range Hydrocarbons		<9.79	14.9	<9.80	14.9	<9.80	14.9	<9.82	14.9	<9.82	14.9	<9.85	15.0
Total TPH		<9.79	14.9	<9.80	14.9	<9.80	14.9	<9.82	14.9	<9.82	14.9	<9.85	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-040		587854-041		587854-042		587854-043		587854-044		587854-045	
	Field Id:	SE Confirmation 4-5		SE Confirmation 5-6		SE Confirmation 6-7		SE Confirmation 7-8		SE Confirmation 8-9		SE Confirmation 9-10	
	Depth:	4-5		5-6		6-7		7-8		8-9		9-10	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:15		May-31-18 11:15		May-31-18 11:15		May-31-18 11:15		May-31-18 11:15		May-31-18 11:15	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:45		Jun-07-18 16:45		Jun-07-18 16:45		Jun-07-18 15:00		Jun-07-18 16:45		Jun-07-18 16:45	
	Analyzed:	Jun-07-18 19:11		Jun-07-18 19:27		Jun-07-18 19:43		Jun-07-18 16:58		Jun-07-18 19:59		Jun-07-18 20:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
Toluene		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
Ethylbenzene		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
m,p-Xylenes		<0.00101	0.00202	<0.000994	0.00199	<0.000994	0.00199	<0.00100	0.00200	<0.000996	0.00199	<0.000990	0.00198
o-Xylene		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
Total Xylenes		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
Total BTEX		<0.000504	0.00101	<0.000497	0.000994	<0.000497	0.000994	<0.000501	0.00100	<0.000498	0.000996	<0.000495	0.000990
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08	
	Analyzed:	Jun-07-18 07:40		Jun-07-18 07:51		Jun-07-18 08:02		Jun-07-18 08:13		Jun-07-18 08:24		Jun-07-18 08:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4.55 J	9.82	3.20 J	9.94	3.22 J	9.96	3.67 J	9.98	2.23 J	9.82	2.40 J	9.94
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42	
	Analyzed:	Jun-10-18 09:10		Jun-10-18 10:13		Jun-10-18 10:34		Jun-10-18 10:55		Jun-10-18 11:16		Jun-10-18 11:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
C10-C28 Diesel Range Organics		<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
C28-C35 Oil Range Hydrocarbons		<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
Total TPH		<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-046		587854-047		587854-048		587854-049		587854-050		587854-051	
	Field Id:	NW Confirmation 0-1		NW Confirmation 1-2		NW Confirmation 2-3		NW Confirmation 3-4		NW Confirmation 4-5		NW Confirmation 5-6	
	Depth:	0-1		1-2		2-3		3-4		4-5		5-6	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:35		May-31-18 11:35		May-31-18 11:35		May-31-18 11:35		May-31-18 11:35		May-31-18 11:35	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:45		Jun-07-18 16:45		Jun-14-18 08:57		Jun-07-18 16:45		Jun-14-18 08:57		Jun-07-18 16:45	
	Analyzed:	Jun-07-18 21:04		Jun-07-18 20:31		Jun-14-18 14:04		Jun-07-18 20:47		Jun-14-18 14:21		Jun-07-18 21:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
Toluene		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
Ethylbenzene		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
m,p-Xylenes		<0.00101	0.00202	<0.000998	0.00200	<0.000996	0.00199	<0.00101	0.00202	<0.00100	0.00201	<0.000994	0.00199
o-Xylene		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
Total Xylenes		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
Total BTEX		<0.000504	0.00101	<0.000499	0.000998	<0.000498	0.000996	<0.000504	0.00101	<0.000502	0.00100	<0.000497	0.000994
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08	
	Analyzed:	Jun-07-18 08:45		Jun-07-18 08:56		Jun-07-18 09:07		Jun-07-18 09:39		Jun-07-18 09:50		Jun-07-18 10:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		31.5	9.96	26.9	9.82	22.3	9.92	28.2	9.90	4.48 J	9.82	5.21 J	9.82
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42	
	Analyzed:	Jun-10-18 11:58		Jun-10-18 12:19		Jun-10-18 12:41		Jun-10-18 13:02		Jun-10-18 22:57		Jun-10-18 23:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		29.4	15.0	26.0	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
C10-C28 Diesel Range Organics		13.2 J	15.0	22.6	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
C28-C35 Oil Range Hydrocarbons		<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0
Total TPH		42.6	15.0	48.6	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0	<9.88	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-052		587854-053		587854-054		587854-055		587854-056		587854-057	
	Field Id:	NW Confirmation 6-7		NW Confirmation 7-8		NW Confirmation 8-9		NW Confirmation 9-10		NE Confirmation 0-1		NE Confirmation 1-2	
	Depth:	6-7		7-8		8-9		9-10		0-1		1-2	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:35		May-31-18 11:35		May-31-18 11:35		May-31-18 11:35		May-31-18 11:45		May-31-18 11:45	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:45		Jun-09-18 12:05		Jun-09-18 12:05		Jun-08-18 18:30		Jun-08-18 18:30		Jun-08-18 18:30	
	Analyzed:	Jun-07-18 21:20		Jun-09-18 13:58		Jun-09-18 14:30		Jun-08-18 22:23		Jun-08-18 20:14		Jun-08-18 22:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000497	0.000994	<0.000499	0.000998	<0.000495	0.000990	<0.000501	0.00100	<0.000502	0.00100	<0.000500	0.00100
Toluene		<0.000497	0.000994	0.000918 J	0.000998	0.000634 J	0.000990	0.00163	0.00100	<0.000502	0.00100	<0.000500	0.00100
Ethylbenzene		<0.000497	0.000994	<0.000499	0.000998	<0.000495	0.000990	<0.000501	0.00100	<0.000502	0.00100	<0.000500	0.00100
m,p-Xylenes		<0.000994	0.00199	<0.000998	0.00200	<0.000990	0.00198	<0.00100	0.00200	<0.00100	0.00201	<0.00100	0.00200
o-Xylene		<0.000497	0.000994	<0.000499	0.000998	<0.000495	0.000990	<0.000501	0.00100	<0.000502	0.00100	<0.000500	0.00100
Total Xylenes		<0.000497	0.000994	<0.000499	0.000998	<0.000495	0.000990	<0.000501	0.00100	<0.000502	0.00100	<0.000500	0.00100
Total BTEX		<0.000497	0.000994	0.000918 J	0.000998	0.000634 J	0.000990	0.00163	0.00100	<0.000502	0.00100	<0.000500	0.00100
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 09:08		Jun-06-18 17:08		Jun-06-18 17:08		Jun-06-18 17:08	
	Analyzed:	Jun-07-18 14:49		Jun-07-18 15:00		Jun-07-18 15:11		Jun-07-18 02:27		Jun-07-18 03:00		Jun-07-18 03:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5.95 J	9.82	5.74 J	9.88	2.77 J	9.90	6.33 J	9.82	9.39 J	9.88	18.0	9.90
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42		Jun-07-18 16:42	
	Analyzed:	Jun-11-18 00:00		Jun-11-18 00:21		Jun-11-18 00:42		Jun-11-18 01:03		Jun-11-18 01:24		Jun-11-18 01:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		<9.88	15.0	<9.88	15.0	<9.88	15.0	28.8	15.0	24.8	15.0	30.3	15.0
C10-C28 Diesel Range Organics		<9.88	15.0	<9.88	15.0	<9.88	15.0	14.1 J	15.0	12.6 J	15.0	11.9 J	15.0
C28-C35 Oil Range Hydrocarbons		<9.88	15.0	<9.88	15.0	<9.88	15.0	12.1 J	15.0	<9.88	15.0	<9.88	15.0
Total TPH		<9.88	15.0	<9.88	15.0	<9.88	15.0	55.0	15.0	37.4	15.0	42.2	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	587854-058		587854-059		587854-060		587854-061		587854-062		587854-063	
	Field Id:	NE Confirmation 2-3		NE Confirmation 3-4		NE Confirmation 4-5		NE Confirmation 5-6		NE Confirmation 6-7		NE Confirmation 7-8	
	Depth:	2-3		3-4		4-5		5-6		6-7		7-8	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-31-18 11:45		May-31-18 11:45		May-31-18 11:45		May-31-18 11:45		May-31-18 11:45		May-31-18 11:45	
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-08-18 18:30		Jun-08-18 18:30		Jun-08-18 18:30		Jun-08-18 18:30		Jun-08-18 18:30		Jun-08-18 18:30	
	Analyzed:	Jun-08-18 22:55		Jun-08-18 23:11		Jun-08-18 23:28		Jun-08-18 23:44		Jun-09-18 00:00		Jun-09-18 00:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
Toluene		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
Ethylbenzene		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
m,p-Xylenes		<0.000998	0.00200	<0.000990	0.00198	<0.00100	0.00200	<0.00100	0.00201	<0.00100	0.00201	<0.00100	0.00200
o-Xylene		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
Total Xylenes		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
Total BTEX		<0.000499	0.000998	<0.000495	0.000990	<0.000500	0.00100	<0.000502	0.00100	<0.000502	0.00100	<0.000501	0.00100
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-06-18 17:08		Jun-06-18 17:08		Jun-06-18 17:08		Jun-06-18 17:08		Jun-06-18 17:08		Jun-06-18 17:08	
	Analyzed:	Jun-07-18 03:21		Jun-07-18 03:54		Jun-07-18 04:04		Jun-07-18 04:15		Jun-07-18 04:26		Jun-07-18 04:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		29.7	9.96	18.2	9.94	2.25 J	9.86	3.55 J	9.90	9.39 J	9.88	1.51 J	9.92
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-07-18 16:42		Jun-07-18 16:42		Jun-08-18 11:51		Jun-08-18 12:00		Jun-08-18 12:03		Jun-08-18 12:06	
	Analyzed:	Jun-11-18 02:06		Jun-11-18 02:27		Jun-10-18 19:47		Jun-10-18 20:08		Jun-10-18 20:29		Jun-10-18 20:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		29.5	15.0	<9.88	15.0	<9.83	14.9	<9.79	14.9	<9.83	14.9	<9.83	14.9
C10-C28 Diesel Range Organics		13.3 J	15.0	<9.88	15.0	<9.83	14.9	<9.79	14.9	<9.83	14.9	<9.83	14.9
C28-C35 Oil Range Hydrocarbons		9.90 J	15.0	<9.88	15.0	<9.83	14.9	<9.79	14.9	<9.83	14.9	<9.83	14.9
Total TPH		52.7	15.0	<9.88	15.0	<9.83	14.9	<9.79	14.9	<9.83	14.9	<9.83	14.9

Holly Taylor
Project Manager

Certificate of Analysis Summary 587854

R2M Engineering, Lubbock, TX

Project Name: Venables

Project Id:
Contact: Mason Sanders
Project Location: Hobbs, NM

Date Received in Lab: Thu May-31-18 04:00 pm
Report Date: 15-JUN-18
Project Manager: Holly Taylor

Analysis Requested							
	Lab Id:	587854-064		587854-065			
	Field Id:	NE Confirmation 8-9		NE Confirmation 9-10			
	Depth:	8-9		9-10			
	Matrix:	SOIL		SOIL			
	Sampled:	May-31-18 11:45		May-31-18 11:45			
BTEX by SW 8260B SUB: TX104704215-18-26	***Extracted:***	Jun-08-18 18:30		Jun-08-18 18:30			
	Analyzed:	Jun-09-18 00:32		Jun-09-18 00:49			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.000499	0.000998	<0.000495	0.000990		
Toluene		<0.000499	0.000998	<0.000495	0.000990		
Ethylbenzene		<0.000499	0.000998	<0.000495	0.000990		
m,p-Xylenes		<0.000998	0.00200	<0.000990	0.00198		
o-Xylene		<0.000499	0.000998	<0.000495	0.000990		
Total Xylenes		<0.000499	0.000998	<0.000495	0.000990		
Total BTEX		<0.000499	0.000998	<0.000495	0.000990		
Inorganic Anions by EPA 300/300.1 SUB: TX104704215-18-26	***Extracted:***	Jun-06-18 17:08		Jun-06-18 17:08			
	Analyzed:	Jun-07-18 04:48		Jun-07-18 04:58			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		3.50 J	9.77	10.3	9.88		
TPH by SW 8015B SUB: TX104704215-18-26	***Extracted:***	Jun-08-18 12:09		Jun-08-18 12:12			
	Analyzed:	Jun-10-18 21:12		Jun-10-18 21:33			
	Units/RL:	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		<9.84	14.9	<9.78	14.9		
C10-C28 Diesel Range Organics		<9.84	14.9	<9.78	14.9		
C28-C35 Oil Range Hydrocarbons		<9.84	14.9	<9.78	14.9		
Total TPH		<9.84	14.9	<9.78	14.9		

Holly Taylor
Project Manager

Analytical Report 587854

for

R2M Engineering

Project Manager: Mason Sanders

Venables

15-JUN-18

Collected By: Client

6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

15-JUN-18

Project Manager: **Mason Sanders**
R2M Engineering
5012 50th
Suite 204
Lubbock, TX 79414

Reference: XENCO Report No(s): **587854**
Venables
Project Address: Hobbs, NM

Mason Sanders:

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) 587854. 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. 587854 will be filed for 45 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,

Holly Taylor
Project Manager

Sample Cross Reference 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Con 2001	S	05-31-18 07:30		587854-001
Con 2002	S	05-31-18 07:33		587854-003
Con 2003	S	05-31-18 07:39		587854-005
Con 2004	S	05-31-18 07:44		587854-007
SB-2.2	S	05-31-18 08:30	0 - 1	587854-012
SB-2.3	S	05-31-18 08:40	0 - 1	587854-013
SB-2.4	S	05-31-18 08:51	0 - 1	587854-014
Stockpile 3	S	05-31-18 11:00	0 - 1	587854-023
Stockpile 4	S	05-31-18 13:30	0 - 1	587854-024
Pit Bottom	S	05-31-18 13:25	0 - 1	587854-025
SW Confirmation 0-1	S	05-31-18 11:25	0 - 1	587854-026
SW Confirmation 1-2	S	05-31-18 11:25	1 - 2	587854-027
SW Confirmation 2-3	S	05-31-18 11:25	2 - 3	587854-028
SW Confirmation 3-4	S	05-31-18 11:25	3 - 4	587854-029
SW Confirmation 4-5	S	05-31-18 11:25	4 - 5	587854-030
SW Confirmation 5-6	S	05-31-18 11:25	5 - 6	587854-031
SW Confirmation 6-7	S	05-31-18 11:25	6 - 7	587854-032
SW Confirmation 7-8	S	05-31-18 11:25	7 - 8	587854-033
SW Confirmation 8-9	S	05-31-18 11:25	8 - 9	587854-034
SW Confirmation 9-10	S	05-31-18 11:25	9 - 10	587854-035
SE Confirmation 0-1	S	05-31-18 11:15	0 - 1	587854-036
SE Confirmation 1-2	S	05-31-18 11:15	1 - 2	587854-037
SE Confirmation 2-3	S	05-31-18 11:15	2 - 3	587854-038
SE Confirmation 3-4	S	05-31-18 11:15	3 - 4	587854-039
SE Confirmation 4-5	S	05-31-18 11:15	4 - 5	587854-040
SE Confirmation 5-6	S	05-31-18 11:15	5 - 6	587854-041
SE Confirmation 6-7	S	05-31-18 11:15	6 - 7	587854-042
SE Confirmation 7-8	S	05-31-18 11:15	7 - 8	587854-043
SE Confirmation 8-9	S	05-31-18 11:15	8 - 9	587854-044
SE Confirmation 9-10	S	05-31-18 11:15	9 - 10	587854-045
NW Confirmation 0-1	S	05-31-18 11:35	0 - 1	587854-046
NW Confirmation 1-2	S	05-31-18 11:35	1 - 2	587854-047
NW Confirmation 2-3	S	05-31-18 11:35	2 - 3	587854-048
NW Confirmation 3-4	S	05-31-18 11:35	3 - 4	587854-049
NW Confirmation 4-5	S	05-31-18 11:35	4 - 5	587854-050
NW Confirmation 5-6	S	05-31-18 11:35	5 - 6	587854-051
NW Confirmation 6-7	S	05-31-18 11:35	6 - 7	587854-052
NW Confirmation 7-8	S	05-31-18 11:35	7 - 8	587854-053
NW Confirmation 8-9	S	05-31-18 11:35	8 - 9	587854-054
NW Confirmation 9-10	S	05-31-18 11:35	9 - 10	587854-055
NE Confirmation 0-1	S	05-31-18 11:45	0 - 1	587854-056
NE Confirmation 1-2	S	05-31-18 11:45	1 - 2	587854-057
NE Confirmation 2-3	S	05-31-18 11:45	2 - 3	587854-058

Sample Cross Reference 587854

R2M Engineering, Lubbock, TX

Venables

NE Confirmation 3-4	S	05-31-18 11:45	3 - 4	587854-059
NE Confirmation 4-5	S	05-31-18 11:45	4 - 5	587854-060
NE Confirmation 5-6	S	05-31-18 11:45	5 - 6	587854-061
NE Confirmation 6-7	S	05-31-18 11:45	6 - 7	587854-062
NE Confirmation 7-8	S	05-31-18 11:45	7 - 8	587854-063
NE Confirmation 8-9	S	05-31-18 11:45	8 - 9	587854-064
NE Confirmation 9-10	S	05-31-18 11:45	9 - 10	587854-065
Con 2001	S	05-31-18 07:30		Not Analyzed
Con 2002	S	05-31-18 07:33		Not Analyzed
Con 2003	S	05-31-18 07:39		Not Analyzed
Con 2004	S	05-31-18 07:44		Not Analyzed
SB-2	S	05-31-18 09:20	2 - 3	Not Analyzed
SB-2	S	05-31-18 09:20	3 - 4	Not Analyzed
SB-2	S	05-31-18 09:20	4 - 5	Not Analyzed
SB-5	S	05-31-18 09:40	3 - 4	Not Analyzed
SB-6	S	05-31-18 09:56	3 - 4	Not Analyzed
SB-7	S	05-31-18 10:12	3 - 4	Not Analyzed
SB-10	S	05-31-18 10:25	3 - 4	Not Analyzed
SB-3	S	05-31-18 10:50	2 - 3	Not Analyzed
SB-3	S	05-31-18 10:50	3 - 4	Not Analyzed
SB-3	S	05-31-18 10:50	4 - 5	Not Analyzed
SB-3	S	05-31-18 10:50	5 - 6	Not Analyzed
SB-01 2-3	S	05-31-18 13:45	2 - 3	Not Analyzed
SB-01 3-4	S	05-31-18 13:45	3 - 4	Not Analyzed
SB-01 4-5	S	05-31-18 13:45	4 - 5	Not Analyzed
SB-01 5-6	S	05-31-18 13:45	5 - 6	Not Analyzed

CASE NARRATIVE

Client Name: R2M Engineering

Project Name: Venables

Project ID:
Work Order Number(s): *587854*

Report Date: *15-JUN-18*
Date Received: *05/31/2018*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3052363 BTEX by SW 8260B
Lab Sample ID 587854-012 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587854-012, -013, -014, -024, -026, -027, -029, -030, -031, -034, -035, -036, -037, -039.
The Laboratory Control Sample for o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3052603 Inorganic Anions by EPA 300/300.1
Lab Sample ID 587854-054 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587854-007, -023, -024, -025, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052, -053, -054.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3052687 BTEX by SW 8260B
Surrogate 1,2-Dichloroethane-D4 recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 587854-051,587854-046.

Batch: LBA-3053013 BTEX by SW 8260B
Lab Sample ID 587854-028 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, Toluene, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587854-007, -025, -028, -053, -054.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

m,p-Xylenes Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 587854-007, -025, -028, -053, -054

Surrogate 1,2-Dichloroethane-D4 recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 587854-025,587854-054,587854-053.

Batch: LBA-3053017 BTEX by SW 8260B
Surrogate 1,2-Dichloroethane-D4 recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 587856-004 S,587854-055,587854-061,587854-056,587854-060.

Batch: LBA-3053406 BTEX-MTBE by SW 8260B
Surrogate Dibromofluoromethane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 588431-010 S.

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

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Sample Id:	**Con 2001**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-001	Date Collected:	05.31.18 07.30		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**592**	9.88	0.350	mg/kg	06.06.18 08.04		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.30	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**59.3**	14.9	9.84	mg/kg	06.10.18 06.43		1
C10-C28 Diesel Range Organics	C10C28DRO	**2040**	14.9	9.84	mg/kg	06.10.18 06.43		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**216**	14.9	9.84	mg/kg	06.10.18 06.43		1
Total TPH	PHC635	**2320**	14.9	9.84	mg/kg	06.10.18 06.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	06.10.18 06.43	
o-Terphenyl	84-15-1	103	%	70-135	06.10.18 06.43	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**Con 2001**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-001	Date Collected:	05.31.18 07.30		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.07.18 21.52	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.07.18 21.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	74-126	06.07.18 21.52	
1,2-Dichloroethane-D4	17060-07-0	110	%	80-120	06.07.18 21.52	
Toluene-D8	2037-26-5	97	%	73-132	06.07.18 21.52	

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Sample Id:	**Con 2002**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-003	Date Collected:	05.31.18 07.33		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.7**	9.94	0.352	mg/kg	06.06.18 08.18		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.33	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**78.2**	14.9	9.82	mg/kg	06.10.18 07.04		1
C10-C28 Diesel Range Organics	C10C28DRO	**899**	14.9	9.82	mg/kg	06.10.18 07.04		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**97.6**	14.9	9.82	mg/kg	06.10.18 07.04		1
Total TPH	PHC635	**1070**	14.9	9.82	mg/kg	06.10.18 07.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	06.10.18 07.04	
o-Terphenyl	84-15-1	106	%	70-135	06.10.18 07.04	

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R2M Engineering, Lubbock, TX

Venables

Sample Id:	**Con 2002**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-003	Date Collected:	05.31.18 07.33		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.09.18 01.21	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.09.18 01.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.09.18 01.21	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.09.18 01.21	
Toluene-D8	2037-26-5	93	%	73-132	06.09.18 01.21	

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Sample Id:	**Con 2003**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-005	Date Collected:	05.31.18 07.39		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.65**	9.75	0.345	mg/kg	06.06.18 08.31	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.36	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**102**	14.9	9.84	mg/kg	06.10.18 07.25		1
C10-C28 Diesel Range Organics	C10C28DRO	**1870**	14.9	9.84	mg/kg	06.10.18 07.25		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**222**	14.9	9.84	mg/kg	06.10.18 07.25		1
Total TPH	PHC635	**2190**	14.9	9.84	mg/kg	06.10.18 07.25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.10.18 07.25	
o-Terphenyl	84-15-1	107	%	70-135	06.10.18 07.25	

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Sample Id:	**Con 2003**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-005	Date Collected:	05.31.18 07.39		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.09.18 01.05	U	1
Toluene	108-88-3	**0.00257**	0.000998	0.000499	mg/kg	06.09.18 01.05		1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.09.18 01.05	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.09.18 01.05	U	1
o-Xylene	95-47-6	**0.00104**	0.000998	0.000499	mg/kg	06.09.18 01.05		1
Total Xylenes	1330-20-7	**0.00104**	0.000998	0.000499	mg/kg	06.09.18 01.05		1
Total BTEX		**0.00361**	0.000998	0.000499	mg/kg	06.09.18 01.05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	112	%	74-126	06.09.18 01.05	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.09.18 01.05	
Toluene-D8	2037-26-5	86	%	73-132	06.09.18 01.05	

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Sample Id:	**Con 2004**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-007	Date Collected:	05.31.18 07.44		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**884**	9.94	0.352	mg/kg	06.07.18 06.03	X	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.15	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**161**	15.0	9.87	mg/kg	06.11.18 02.48		1
C10-C28 Diesel Range Organics	C10C28DRO	**4200**	15.0	9.87	mg/kg	06.11.18 02.48		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**429**	15.0	9.87	mg/kg	06.11.18 02.48		1
Total TPH	PHC635	**4790**	15.0	9.87	mg/kg	06.11.18 02.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	06.11.18 02.48	
o-Terphenyl	84-15-1	126	%	70-135	06.11.18 02.48	

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Sample Id:	**Con 2004**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-007	Date Collected:	05.31.18 07.44		
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.09.18 12.05	Basis:	Wet Weight
Seq Number:	3053013			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000494	0.000988	0.000494	mg/kg	06.09.18 13.41	U	1
Toluene	108-88-3	**0.00335**	0.000988	0.000494	mg/kg	06.09.18 13.41		1
Ethylbenzene	100-41-4	<0.000494	0.000988	0.000494	mg/kg	06.09.18 13.41	U	1
m,p-Xylenes	179601-23-1	**0.00203**	0.00198	0.000988	mg/kg	06.09.18 13.41		1
o-Xylene	95-47-6	**0.000879**	0.000988	0.000494	mg/kg	06.09.18 13.41	J	1
Total Xylenes	1330-20-7	**0.00291**	0.000988	0.000494	mg/kg	06.09.18 13.41		1
Total BTEX		**0.00626**	0.000988	0.000494	mg/kg	06.09.18 13.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	06.09.18 13.41	
1,2-Dichloroethane-D4	17060-07-0	115	%	80-120	06.09.18 13.41	
Toluene-D8	2037-26-5	93	%	73-132	06.09.18 13.41	

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Sample Id:	**SB-2.2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-012	Date Collected:	05.31.18 08.30	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.2**	9.82	0.348	mg/kg	06.06.18 08.45		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.21	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.86	15.0	9.86	mg/kg	06.09.18 23.44	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.86	15.0	9.86	mg/kg	06.09.18 23.44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.86	15.0	9.86	mg/kg	06.09.18 23.44	U	1
Total TPH	PHC635	<9.86	15.0	9.86	mg/kg	06.09.18 23.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.09.18 23.44	
o-Terphenyl	84-15-1	122	%	70-135	06.09.18 23.44	

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R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SB-2.2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-012	Date Collected:	05.31.18 08.30	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.10	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.04.18 22.36	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	UX	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.04.18 22.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	119	%	74-126	06.04.18 22.36	
1,2-Dichloroethane-D4	17060-07-0	119	%	80-120	06.04.18 22.36	
Toluene-D8	2037-26-5	93	%	73-132	06.04.18 22.36	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SB-2.3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-013	Date Collected:	05.31.18 08.40	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.6**	9.92	0.351	mg/kg	06.06.18 09.27		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.39	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.81	14.9	9.81	mg/kg	06.10.18 00.47	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.81	14.9	9.81	mg/kg	06.10.18 00.47	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.81	14.9	9.81	mg/kg	06.10.18 00.47	U	1
Total TPH	PHC635	<9.81	14.9	9.81	mg/kg	06.10.18 00.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	06.10.18 00.47	
o-Terphenyl	84-15-1	118	%	70-135	06.10.18 00.47	

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Venables

Sample Id:	**SB-2.3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-013	Date Collected:	05.31.18 08.40	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.05.18 00.29	U	1
o-Xylene	95-47-6	<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1
Total Xylenes	1330-20-7	<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1
Total BTEX		<0.000496	0.000992	0.000496	mg/kg	06.05.18 00.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	118	%	74-126	06.05.18 00.29	
1,2-Dichloroethane-D4	17060-07-0	114	%	80-120	06.05.18 00.29	
Toluene-D8	2037-26-5	90	%	73-132	06.05.18 00.29	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SB-2.4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-014	Date Collected:	05.31.18 08.51	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35.8**	9.94	0.352	mg/kg	06.06.18 09.41		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.42	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.84	14.9	9.84	mg/kg	06.10.18 01.08	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.84	14.9	9.84	mg/kg	06.10.18 01.08	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.84	14.9	9.84	mg/kg	06.10.18 01.08	U	1
Total TPH	PHC635	<9.84	14.9	9.84	mg/kg	06.10.18 01.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	06.10.18 01.08	
o-Terphenyl	84-15-1	121	%	70-135	06.10.18 01.08	

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Venables

Sample Id:	**SB-2.4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-014	Date Collected:	05.31.18 08.51	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.05.18 00.45	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.05.18 00.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	117	%	74-126	06.05.18 00.45	
1,2-Dichloroethane-D4	17060-07-0	115	%	80-120	06.05.18 00.45	
Toluene-D8	2037-26-5	93	%	73-132	06.05.18 00.45	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**Stockpile 3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-023	Date Collected:	05.31.18 11.00	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**477**	9.86	0.349	mg/kg	06.07.18 06.36		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.18	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.84	14.9	9.84	mg/kg	06.10.18 21.54	U	1
C10-C28 Diesel Range Organics	C10C28DRO	**92.4**	14.9	9.84	mg/kg	06.10.18 21.54		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**25.4**	14.9	9.84	mg/kg	06.10.18 21.54		1
Total TPH	PHC635	**118**	14.9	9.84	mg/kg	06.10.18 21.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	06.10.18 21.54	
o-Terphenyl	84-15-1	126	%	70-135	06.10.18 21.54	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**Stockpile 3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-023	Date Collected:	05.31.18 11.00	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.07.18 22.08	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.07.18 22.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	98	%	74-126	06.07.18 22.08	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.07.18 22.08	
Toluene-D8	2037-26-5	104	%	73-132	06.07.18 22.08	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**Stockpile 4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-024	Date Collected:	05.31.18 13.30	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**65.4**	9.88	0.350	mg/kg	06.07.18 06.46		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.21	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.1**	14.9	9.83	mg/kg	06.10.18 22.15		1
C10-C28 Diesel Range Organics	C10C28DRO	**52.1**	14.9	9.83	mg/kg	06.10.18 22.15		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**14.7**	14.9	9.83	mg/kg	06.10.18 22.15	J	1
Total TPH	PHC635	**94.9**	14.9	9.83	mg/kg	06.10.18 22.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	06.10.18 22.15	
o-Terphenyl	84-15-1	130	%	70-135	06.10.18 22.15	

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Venables

Sample Id:	**Stockpile 4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-024	Date Collected:	05.31.18 13.30	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.01	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.01	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.01	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.05.18 01.01	U	1
o-Xylene	95-47-6	**0.00548**	0.000992	0.000496	mg/kg	06.05.18 01.01		1
Total Xylenes	1330-20-7	**0.00548**	0.000992	0.000496	mg/kg	06.05.18 01.01		1
Total BTEX		**0.00548**	0.000992	0.000496	mg/kg	06.05.18 01.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	114	%	74-126	06.05.18 01.01	
1,2-Dichloroethane-D4	17060-07-0	109	%	80-120	06.05.18 01.01	
Toluene-D8	2037-26-5	102	%	73-132	06.05.18 01.01	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**Pit Bottom**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-025	Date Collected:	05.31.18 13.25	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.6**	9.90	0.350	mg/kg	06.07.18 06.57		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.24	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**24.6**	15.0	9.86	mg/kg	06.10.18 22.36		1
C10-C28 Diesel Range Organics	C10C28DRO	**15.0**	15.0	9.86	mg/kg	06.10.18 22.36	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**10.4**	15.0	9.86	mg/kg	06.10.18 22.36	J	1
Total TPH	PHC635	**50.0**	15.0	9.86	mg/kg	06.10.18 22.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.10.18 22.36	
o-Terphenyl	84-15-1	130	%	70-135	06.10.18 22.36	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**Pit Bottom**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-025	Date Collected:	05.31.18 13.25	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.09.18 11.40	Basis:	Wet Weight
Seq Number:	3053013			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.09.18 12.53	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.09.18 12.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	119	%	74-126	06.09.18 12.53	
1,2-Dichloroethane-D4	17060-07-0	123	%	80-120	06.09.18 12.53	**
Toluene-D8	2037-26-5	93	%	73-132	06.09.18 12.53	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-026	Date Collected:	05.31.18 11.25	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.64**	9.96	0.353	mg/kg	06.06.18 09.54	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.45	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.84	14.9	9.84	mg/kg	06.10.18 01.29	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.84	14.9	9.84	mg/kg	06.10.18 01.29	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.84	14.9	9.84	mg/kg	06.10.18 01.29	U	1
Total TPH	PHC635	<9.84	14.9	9.84	mg/kg	06.10.18 01.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	06.10.18 01.29	
o-Terphenyl	84-15-1	123	%	70-135	06.10.18 01.29	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-026	Date Collected:	05.31.18 11.25	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.05.18 01.18	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.05.18 01.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.05.18 01.18	
1,2-Dichloroethane-D4	17060-07-0	99	%	80-120	06.05.18 01.18	
Toluene-D8	2037-26-5	92	%	73-132	06.05.18 01.18	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-027	Date Collected:	05.31.18 11.25	Sample Depth:	1 - 2

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.97**	9.94	0.352	mg/kg	06.06.18 16.37	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.48	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.85	15.0	9.85	mg/kg	06.10.18 01.50	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.85	15.0	9.85	mg/kg	06.10.18 01.50	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.85	15.0	9.85	mg/kg	06.10.18 01.50	U	1
Total TPH	PHC635	<9.85	15.0	9.85	mg/kg	06.10.18 01.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	06.10.18 01.50	
o-Terphenyl	84-15-1	128	%	70-135	06.10.18 01.50	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-027	Date Collected:	05.31.18 11.25	Sample Depth:	1 - 2
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.05.18 01.34	U	1
o-Xylene	95-47-6	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1
Total Xylenes	1330-20-7	<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1
Total BTEX		<0.000496	0.000992	0.000496	mg/kg	06.05.18 01.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.05.18 01.34	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.05.18 01.34	
Toluene-D8	2037-26-5	88	%	73-132	06.05.18 01.34	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**SW Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-028	Date Collected:	05.31.18 11.25	Sample Depth:	2 - 3

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.50**	9.92	0.351	mg/kg	06.06.18 16.51	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.51	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.85	15.0	9.85	mg/kg	06.10.18 02.11	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.85	15.0	9.85	mg/kg	06.10.18 02.11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.85	15.0	9.85	mg/kg	06.10.18 02.11	U	1
Total TPH	PHC635	<9.85	15.0	9.85	mg/kg	06.10.18 02.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.10.18 02.11	
o-Terphenyl	84-15-1	121	%	70-135	06.10.18 02.11	

Certificate of Analytical Results 587854

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Sample Id:	**SW Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-028	Date Collected:	05.31.18 11.25	Sample Depth:	2 - 3
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.09.18 11.40	Basis:	Wet Weight
Seq Number:	3053013			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.09.18 13.09	U	1
Toluene	108-88-3	**0.000602**	0.00100	0.000502	mg/kg	06.09.18 13.09	JX	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.09.18 13.09	UX	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.09.18 13.09	UXF	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.09.18 13.09	UX	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.09.18 13.09	U	1
Total BTEX		**0.000602**	0.00100	0.000502	mg/kg	06.09.18 13.09	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	117	%	74-126	06.09.18 13.09	
1,2-Dichloroethane-D4	17060-07-0	119	%	80-120	06.09.18 13.09	
Toluene-D8	2037-26-5	102	%	73-132	06.09.18 13.09	

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Sample Id:	**SW Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-029	Date Collected:	05.31.18 11.25	Sample Depth:	3 - 4

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.04**	9.82	0.348	mg/kg	06.06.18 17.04	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.54	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.10.18 02.32	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.82	14.9	9.82	mg/kg	06.10.18 02.32	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.82	14.9	9.82	mg/kg	06.10.18 02.32	U	1
Total TPH	PHC635	<9.82	14.9	9.82	mg/kg	06.10.18 02.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.10.18 02.32	
o-Terphenyl	84-15-1	122	%	70-135	06.10.18 02.32	

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Sample Id:	**SW Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-029	Date Collected:	05.31.18 11.25	Sample Depth:	3 - 4
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.05.18 01.50	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.05.18 01.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	06.05.18 01.50	
1,2-Dichloroethane-D4	17060-07-0	106	%	80-120	06.05.18 01.50	
Toluene-D8	2037-26-5	98	%	73-132	06.05.18 01.50	

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Sample Id:	**SW Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-030	Date Collected:	05.31.18 11.25	Sample Depth:	4 - 5

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.10**	9.78	0.346	mg/kg	06.06.18 17.18	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 13.57	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.84	14.9	9.84	mg/kg	06.10.18 02.52	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.84	14.9	9.84	mg/kg	06.10.18 02.52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.84	14.9	9.84	mg/kg	06.10.18 02.52	U	1
Total TPH	PHC635	<9.84	14.9	9.84	mg/kg	06.10.18 02.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.10.18 02.52	
o-Terphenyl	84-15-1	119	%	70-135	06.10.18 02.52	

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Venables

Sample Id:	**SW Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-030	Date Collected:	05.31.18 11.25	Sample Depth:	4 - 5
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.05.18 02.06	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.05.18 02.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	06.05.18 02.06	
1,2-Dichloroethane-D4	17060-07-0	107	%	80-120	06.05.18 02.06	
Toluene-D8	2037-26-5	90	%	73-132	06.05.18 02.06	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**SW Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-031	Date Collected:	05.31.18 11.25	Sample Depth:	5 - 6

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.84**	9.75	0.345	mg/kg	06.06.18 17.32	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.00	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.10.18 03.14	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.78	14.9	9.78	mg/kg	06.10.18 03.14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.78	14.9	9.78	mg/kg	06.10.18 03.14	U	1
Total TPH	PHC635	<9.78	14.9	9.78	mg/kg	06.10.18 03.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.10.18 03.14	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 03.14	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**SW Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-031	Date Collected:	05.31.18 11.25	Sample Depth:	5 - 6
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.05.18 02.22	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.05.18 02.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.05.18 02.22	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	06.05.18 02.22	
Toluene-D8	2037-26-5	96	%	73-132	06.05.18 02.22	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-032	Date Collected:	05.31.18 11.25	Sample Depth:	6 - 7

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.3**	9.77	0.346	mg/kg	06.06.18 18.41		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.03	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.10.18 03.35	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.78	14.9	9.78	mg/kg	06.10.18 03.35	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.78	14.9	9.78	mg/kg	06.10.18 03.35	U	1
Total TPH	PHC635	<9.78	14.9	9.78	mg/kg	06.10.18 03.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.10.18 03.35	
o-Terphenyl	84-15-1	121	%	70-135	06.10.18 03.35	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-032	Date Collected:	05.31.18 11.25	Sample Depth:	6 - 7
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.07.18 18.21	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	06.07.18 18.21	
1,2-Dichloroethane-D4	17060-07-0	114	%	80-120	06.07.18 18.21	
Toluene-D8	2037-26-5	102	%	73-132	06.07.18 18.21	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

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Sample Id:	**SW Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-033	Date Collected:	05.31.18 11.25	Sample Depth:	7 - 8

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.5**	9.78	0.346	mg/kg	06.06.18 18.55		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.06	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.10.18 04.16	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.82	14.9	9.82	mg/kg	06.10.18 04.16	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.82	14.9	9.82	mg/kg	06.10.18 04.16	U	1
Total TPH	PHC635	<9.82	14.9	9.82	mg/kg	06.10.18 04.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.10.18 04.16	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 04.16	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-033	Date Collected:	05.31.18 11.25	Sample Depth:	7 - 8
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.07.18 18.38	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.07.18 18.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	06.07.18 18.38	
1,2-Dichloroethane-D4	17060-07-0	110	%	80-120	06.07.18 18.38	
Toluene-D8	2037-26-5	100	%	73-132	06.07.18 18.38	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SW Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-034	Date Collected:	05.31.18 11.25	Sample Depth:	8 - 9

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.3**	9.73	0.344	mg/kg	06.06.18 19.09		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.09	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.79	14.9	9.79	mg/kg	06.10.18 04.37	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.79	14.9	9.79	mg/kg	06.10.18 04.37	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.79	14.9	9.79	mg/kg	06.10.18 04.37	U	1
Total TPH	PHC635	<9.79	14.9	9.79	mg/kg	06.10.18 04.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	06.10.18 04.37	
o-Terphenyl	84-15-1	122	%	70-135	06.10.18 04.37	

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Sample Id:	**SW Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-034	Date Collected:	05.31.18 11.25	Sample Depth:	8 - 9
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.05.18 02.38	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.05.18 02.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.05.18 02.38	
1,2-Dichloroethane-D4	17060-07-0	101	%	80-120	06.05.18 02.38	
Toluene-D8	2037-26-5	94	%	73-132	06.05.18 02.38	

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Sample Id:	**SW Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-035	Date Collected:	05.31.18 11.25	Sample Depth:	9 - 10

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.76**	9.75	0.345	mg/kg	06.06.18 19.23	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.12	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.80	14.9	9.80	mg/kg	06.10.18 04.58	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.80	14.9	9.80	mg/kg	06.10.18 04.58	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.80	14.9	9.80	mg/kg	06.10.18 04.58	U	1
Total TPH	PHC635	<9.80	14.9	9.80	mg/kg	06.10.18 04.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.10.18 04.58	
o-Terphenyl	84-15-1	120	%	70-135	06.10.18 04.58	

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Sample Id:	**SW Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-035	Date Collected:	05.31.18 11.25	Sample Depth:	9 - 10
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.05.18 02.54	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.05.18 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	119	%	74-126	06.05.18 02.54	
1,2-Dichloroethane-D4	17060-07-0	114	%	80-120	06.05.18 02.54	
Toluene-D8	2037-26-5	86	%	73-132	06.05.18 02.54	

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Sample Id:	**SE Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-036	Date Collected:	05.31.18 11.15	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.97**	9.77	0.346	mg/kg	06.06.18 19.37	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.15	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.80	14.9	9.80	mg/kg	06.10.18 05.19	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.80	14.9	9.80	mg/kg	06.10.18 05.19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.80	14.9	9.80	mg/kg	06.10.18 05.19	U	1
Total TPH	PHC635	<9.80	14.9	9.80	mg/kg	06.10.18 05.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.10.18 05.19	
o-Terphenyl	84-15-1	124	%	70-135	06.10.18 05.19	

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Sample Id:	**SE Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-036	Date Collected:	05.31.18 11.15	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.05.18 03.11	U	1
Toluene	108-88-3	**0.000740**	0.00100	0.000500	mg/kg	06.05.18 03.11	J	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.05.18 03.11	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.05.18 03.11	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.05.18 03.11	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.05.18 03.11	U	1
Total BTEX		**0.000740**	0.00100	0.000500	mg/kg	06.05.18 03.11	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	74-126	06.05.18 03.11	
1,2-Dichloroethane-D4	17060-07-0	105	%	80-120	06.05.18 03.11	
Toluene-D8	2037-26-5	97	%	73-132	06.05.18 03.11	

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Sample Id:	**SE Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-037	Date Collected:	05.31.18 11.15	Sample Depth:	1 - 2

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.05**	9.78	0.346	mg/kg	06.06.18 19.51	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.18	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.10.18 05.40	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.82	14.9	9.82	mg/kg	06.10.18 05.40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.82	14.9	9.82	mg/kg	06.10.18 05.40	U	1
Total TPH	PHC635	<9.82	14.9	9.82	mg/kg	06.10.18 05.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	06.10.18 05.40	
o-Terphenyl	84-15-1	117	%	70-135	06.10.18 05.40	

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Sample Id:	**SE Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-037	Date Collected:	05.31.18 11.15	Sample Depth:	1 - 2
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.05.18 03.27	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.05.18 03.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	114	%	74-126	06.05.18 03.27	
1,2-Dichloroethane-D4	17060-07-0	105	%	80-120	06.05.18 03.27	
Toluene-D8	2037-26-5	100	%	73-132	06.05.18 03.27	

Certificate of Analytical Results 587854

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Sample Id:	**SE Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-038	Date Collected:	05.31.18 11.15	Sample Depth:	2 - 3

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.05.18 17.04	Basis:	Wet Weight
Seq Number:	3052514			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.27**	9.88	0.350	mg/kg	06.06.18 20.04	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.21	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.82	14.9	9.82	mg/kg	06.10.18 06.01	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.82	14.9	9.82	mg/kg	06.10.18 06.01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.82	14.9	9.82	mg/kg	06.10.18 06.01	U	1
Total TPH	PHC635	<9.82	14.9	9.82	mg/kg	06.10.18 06.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.10.18 06.01	
o-Terphenyl	84-15-1	126	%	70-135	06.10.18 06.01	

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Sample Id:	**SE Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-038	Date Collected:	05.31.18 11.15	Sample Depth:	2 - 3
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.14.18 08.57	Basis:	Wet Weight
Seq Number:	3053406			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1
Toluene	108-88-3	<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1
Ethylbenzene	100-41-4	<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1
m,p-Xylenes	179601-23-1	<0.000992	0.00198	0.000992	mg/kg	06.14.18 13.48	U	1
o-Xylene	95-47-6	<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1
Total Xylenes	1330-20-7	<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1
Total BTEX		<0.000496	0.000992	0.000496	mg/kg	06.14.18 13.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	107	%	74-126	06.14.18 13.48	
1,2-Dichloroethane-D4	17060-07-0	105	%	80-120	06.14.18 13.48	
Toluene-D8	2037-26-5	90	%	73-132	06.14.18 13.48	

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Sample Id:	**SE Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-039	Date Collected:	05.31.18 11.15	Sample Depth:	3 - 4

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.43**	9.92	0.351	mg/kg	06.07.18 07.30	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 14.24	Basis:	Wet Weight
Seq Number:	3052891			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.85	15.0	9.85	mg/kg	06.10.18 06.22	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.85	15.0	9.85	mg/kg	06.10.18 06.22	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.85	15.0	9.85	mg/kg	06.10.18 06.22	U	1
Total TPH	PHC635	<9.85	15.0	9.85	mg/kg	06.10.18 06.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	06.10.18 06.22	
o-Terphenyl	84-15-1	132	%	70-135	06.10.18 06.22	

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Sample Id:	**SE Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-039	Date Collected:	05.31.18 11.15	Sample Depth:	3 - 4
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.04.18 18.25	Basis:	Wet Weight
Seq Number:	3052363			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.05.18 03.43	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.05.18 03.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	06.05.18 03.43	
1,2-Dichloroethane-D4	17060-07-0	115	%	80-120	06.05.18 03.43	
Toluene-D8	2037-26-5	90	%	73-132	06.05.18 03.43	

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Sample Id:	**SE Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-040	Date Collected:	05.31.18 11.15	Sample Depth:	4 - 5

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.55**	9.82	0.348	mg/kg	06.07.18 07.40	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 09.10	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 09.10	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 09.10	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 09.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.10.18 09.10	
o-Terphenyl	84-15-1	128	%	70-135	06.10.18 09.10	

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Sample Id:	**SE Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-040	Date Collected:	05.31.18 11.15	Sample Depth:	4 - 5
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1
Toluene	108-88-3	<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1
Ethylbenzene	100-41-4	<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00202	0.00101	mg/kg	06.07.18 19.11	U	1
o-Xylene	95-47-6	<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1
Total Xylenes	1330-20-7	<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1
Total BTEX		<0.000504	0.00101	0.000504	mg/kg	06.07.18 19.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	74-126	06.07.18 19.11	
1,2-Dichloroethane-D4	17060-07-0	99	%	80-120	06.07.18 19.11	
Toluene-D8	2037-26-5	101	%	73-132	06.07.18 19.11	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-041	Date Collected:	05.31.18 11.15	Sample Depth:	5 - 6

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.20**	9.94	0.352	mg/kg	06.07.18 07.51	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 10.13	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 10.13	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 10.13	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 10.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.10.18 10.13	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 10.13	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**SE Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-041	Date Collected:	05.31.18 11.15	Sample Depth:	5 - 6
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.07.18 19.27	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	100	%	74-126	06.07.18 19.27	
1,2-Dichloroethane-D4	17060-07-0	104	%	80-120	06.07.18 19.27	
Toluene-D8	2037-26-5	98	%	73-132	06.07.18 19.27	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-042	Date Collected:	05.31.18 11.15	Sample Depth:	6 - 7

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.22**	9.96	0.353	mg/kg	06.07.18 08.02	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 10.34	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 10.34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 10.34	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 10.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.10.18 10.34	
o-Terphenyl	84-15-1	124	%	70-135	06.10.18 10.34	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-042	Date Collected:	05.31.18 11.15	Sample Depth:	6 - 7
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.07.18 19.43	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.07.18 19.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	74-126	06.07.18 19.43	
1,2-Dichloroethane-D4	17060-07-0	101	%	80-120	06.07.18 19.43	
Toluene-D8	2037-26-5	102	%	73-132	06.07.18 19.43	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-043	Date Collected:	05.31.18 11.15	Sample Depth:	7 - 8

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.67**	9.98	0.353	mg/kg	06.07.18 08.13	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 10.55	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 10.55	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 10.55	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 10.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	06.10.18 10.55	
o-Terphenyl	84-15-1	132	%	70-135	06.10.18 10.55	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-043	Date Collected:	05.31.18 11.15	Sample Depth:	7 - 8
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 15.00	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.07.18 16.58	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.07.18 16.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	74-126	06.07.18 16.58	
1,2-Dichloroethane-D4	17060-07-0	104	%	80-120	06.07.18 16.58	
Toluene-D8	2037-26-5	93	%	73-132	06.07.18 16.58	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-044	Date Collected:	05.31.18 11.15	Sample Depth:	8 - 9

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.23**	9.82	0.348	mg/kg	06.07.18 08.24	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 11.16	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 11.16	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 11.16	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 11.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	06.10.18 11.16	
o-Terphenyl	84-15-1	131	%	70-135	06.10.18 11.16	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-044	Date Collected:	05.31.18 11.15	Sample Depth:	8 - 9
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.07.18 19.59	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.07.18 19.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	74-126	06.07.18 19.59	
1,2-Dichloroethane-D4	17060-07-0	102	%	80-120	06.07.18 19.59	
Toluene-D8	2037-26-5	105	%	73-132	06.07.18 19.59	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-045	Date Collected:	05.31.18 11.15	Sample Depth:	9 - 10

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.40**	9.94	0.352	mg/kg	06.07.18 08.34	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 11.37	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 11.37	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 11.37	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 11.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	06.10.18 11.37	
o-Terphenyl	84-15-1	129	%	70-135	06.10.18 11.37	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**SE Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-045	Date Collected:	05.31.18 11.15	Sample Depth:	9 - 10
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1
Toluene	108-88-3	<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1
Ethylbenzene	100-41-4	<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1
m,p-Xylenes	179601-23-1	<0.000990	0.00198	0.000990	mg/kg	06.07.18 20.15	U	1
o-Xylene	95-47-6	<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1
Total Xylenes	1330-20-7	<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1
Total BTEX		<0.000495	0.000990	0.000495	mg/kg	06.07.18 20.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	96	%	74-126	06.07.18 20.15	
1,2-Dichloroethane-D4	17060-07-0	102	%	80-120	06.07.18 20.15	
Toluene-D8	2037-26-5	109	%	73-132	06.07.18 20.15	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-046	Date Collected:	05.31.18 11.35	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.5**	9.96	0.353	mg/kg	06.07.18 08.45		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**29.4**	15.0	9.88	mg/kg	06.10.18 11.58		1
C10-C28 Diesel Range Organics	C10C28DRO	**13.2**	15.0	9.88	mg/kg	06.10.18 11.58	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 11.58	U	1
Total TPH	PHC635	**42.6**	15.0	9.88	mg/kg	06.10.18 11.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.10.18 11.58	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 11.58	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-046	Date Collected:	05.31.18 11.35	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1
Toluene	108-88-3	<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1
Ethylbenzene	100-41-4	<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00202	0.00101	mg/kg	06.07.18 21.04	U	1
o-Xylene	95-47-6	<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1
Total Xylenes	1330-20-7	<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1
Total BTEX		<0.000504	0.00101	0.000504	mg/kg	06.07.18 21.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	74-126	06.07.18 21.04	
1,2-Dichloroethane-D4	17060-07-0	123	%	80-120	06.07.18 21.04	**
Toluene-D8	2037-26-5	101	%	73-132	06.07.18 21.04	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-047	Date Collected:	05.31.18 11.35	Sample Depth:	1 - 2

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.9**	9.82	0.348	mg/kg	06.07.18 08.56		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**26.0**	15.0	9.88	mg/kg	06.10.18 12.19		1
C10-C28 Diesel Range Organics	C10C28DRO	**22.6**	15.0	9.88	mg/kg	06.10.18 12.19		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 12.19	U	1
Total TPH	PHC635	**48.6**	15.0	9.88	mg/kg	06.10.18 12.19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	06.10.18 12.19	
o-Terphenyl	84-15-1	118	%	70-135	06.10.18 12.19	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-047	Date Collected:	05.31.18 11.35	Sample Depth:	1 - 2
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.07.18 20.31	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.07.18 20.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	74-126	06.07.18 20.31	
1,2-Dichloroethane-D4	17060-07-0	99	%	80-120	06.07.18 20.31	
Toluene-D8	2037-26-5	101	%	73-132	06.07.18 20.31	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-048	Date Collected:	05.31.18 11.35	Sample Depth:	2 - 3

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.3**	9.92	0.351	mg/kg	06.07.18 09.07		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 12.41	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 12.41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 12.41	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 12.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	06.10.18 12.41	
o-Terphenyl	84-15-1	133	%	70-135	06.10.18 12.41	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-048	Date Collected:	05.31.18 11.35	Sample Depth:	2 - 3
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.14.18 08.57	Basis:	Wet Weight
Seq Number:	3053406			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	06.14.18 14.04	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	06.14.18 14.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	74-126	06.14.18 14.04	
1,2-Dichloroethane-D4	17060-07-0	101	%	80-120	06.14.18 14.04	
Toluene-D8	2037-26-5	89	%	73-132	06.14.18 14.04	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-049	Date Collected:	05.31.18 11.35	Sample Depth:	3 - 4

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.2**	9.90	0.350	mg/kg	06.07.18 09.39		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 13.02	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 13.02	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 13.02	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 13.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	06.10.18 13.02	
o-Terphenyl	84-15-1	122	%	70-135	06.10.18 13.02	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-049	Date Collected:	05.31.18 11.35	Sample Depth:	3 - 4
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1
Toluene	108-88-3	<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1
Ethylbenzene	100-41-4	<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00202	0.00101	mg/kg	06.07.18 20.47	U	1
o-Xylene	95-47-6	<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1
Total Xylenes	1330-20-7	<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1
Total BTEX		<0.000504	0.00101	0.000504	mg/kg	06.07.18 20.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.07.18 20.47	
1,2-Dichloroethane-D4	17060-07-0	110	%	80-120	06.07.18 20.47	
Toluene-D8	2037-26-5	106	%	73-132	06.07.18 20.47	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-050	Date Collected:	05.31.18 11.35	Sample Depth:	4 - 5

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.48**	9.82	0.348	mg/kg	06.07.18 09.50	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 22.57	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 22.57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 22.57	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 22.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.10.18 22.57	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 22.57	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-050	Date Collected:	05.31.18 11.35	Sample Depth:	4 - 5
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.14.18 08.57	Basis:	Wet Weight
Seq Number:	3053406			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.14.18 14.21	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.14.18 14.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.14.18 14.21	
1,2-Dichloroethane-D4	17060-07-0	102	%	80-120	06.14.18 14.21	
Toluene-D8	2037-26-5	89	%	73-132	06.14.18 14.21	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-051	Date Collected:	05.31.18 11.35	Sample Depth:	5 - 6

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.21**	9.82	0.348	mg/kg	06.07.18 10.01	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.10.18 23.39	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.10.18 23.39	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.10.18 23.39	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.10.18 23.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	06.10.18 23.39	
o-Terphenyl	84-15-1	130	%	70-135	06.10.18 23.39	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-051	Date Collected:	05.31.18 11.35	Sample Depth:	5 - 6
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.07.18 21.36	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	06.07.18 21.36	
1,2-Dichloroethane-D4	17060-07-0	122	%	80-120	06.07.18 21.36	**
Toluene-D8	2037-26-5	106	%	73-132	06.07.18 21.36	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-052	Date Collected:	05.31.18 11.35	Sample Depth:	6 - 7

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.95**	9.82	0.348	mg/kg	06.07.18 14.49	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.11.18 00.00	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.11.18 00.00	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 00.00	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.11.18 00.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.11.18 00.00	
o-Terphenyl	84-15-1	124	%	70-135	06.11.18 00.00	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-052	Date Collected:	05.31.18 11.35	Sample Depth:	6 - 7
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.07.18 16.45	Basis:	Wet Weight
Seq Number:	3052687			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	06.07.18 21.20	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	06.07.18 21.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	74-126	06.07.18 21.20	
1,2-Dichloroethane-D4	17060-07-0	109	%	80-120	06.07.18 21.20	
Toluene-D8	2037-26-5	103	%	73-132	06.07.18 21.20	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NW Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-053	Date Collected:	05.31.18 11.35	Sample Depth:	7 - 8

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.74**	9.88	0.350	mg/kg	06.07.18 15.00	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.11.18 00.21	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.11.18 00.21	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 00.21	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.11.18 00.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.11.18 00.21	
o-Terphenyl	84-15-1	128	%	70-135	06.11.18 00.21	

Certificate of Analytical Results 587854

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Sample Id:	**NW Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-053	Date Collected:	05.31.18 11.35	Sample Depth:	7 - 8
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.09.18 12.05	Basis:	Wet Weight
Seq Number:	3053013			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.09.18 13.58	U	1
Toluene	108-88-3	**0.000918**	0.000998	0.000499	mg/kg	06.09.18 13.58	J	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.09.18 13.58	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.09.18 13.58	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.09.18 13.58	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.09.18 13.58	U	1
Total BTEX		**0.000918**	0.000998	0.000499	mg/kg	06.09.18 13.58	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.09.18 13.58	
1,2-Dichloroethane-D4	17060-07-0	125	%	80-120	06.09.18 13.58	**
Toluene-D8	2037-26-5	93	%	73-132	06.09.18 13.58	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-054	Date Collected:	05.31.18 11.35	Sample Depth:	8 - 9

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 09.08	Basis:	Wet Weight
Seq Number:	3052603			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.77**	9.90	0.350	mg/kg	06.07.18 15.11	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.11.18 00.42	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.11.18 00.42	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 00.42	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.11.18 00.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.11.18 00.42	
o-Terphenyl	84-15-1	121	%	70-135	06.11.18 00.42	

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Sample Id:	**NW Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-054	Date Collected:	05.31.18 11.35	Sample Depth:	8 - 9
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.09.18 12.05	Basis:	Wet Weight
Seq Number:	3053013			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000495	0.000990	0.000495	mg/kg	06.09.18 14.30	U	1
Toluene	108-88-3	**0.000634**	0.000990	0.000495	mg/kg	06.09.18 14.30	J	1
Ethylbenzene	100-41-4	<0.000495	0.000990	0.000495	mg/kg	06.09.18 14.30	U	1
m,p-Xylenes	179601-23-1	<0.000990	0.00198	0.000990	mg/kg	06.09.18 14.30	U	1
o-Xylene	95-47-6	<0.000495	0.000990	0.000495	mg/kg	06.09.18 14.30	U	1
Total Xylenes	1330-20-7	<0.000495	0.000990	0.000495	mg/kg	06.09.18 14.30	U	1
Total BTEX		**0.000634**	0.000990	0.000495	mg/kg	06.09.18 14.30	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	118	%	74-126	06.09.18 14.30	
1,2-Dichloroethane-D4	17060-07-0	123	%	80-120	06.09.18 14.30	**
Toluene-D8	2037-26-5	94	%	73-132	06.09.18 14.30	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-055	Date Collected:	05.31.18 11.35	Sample Depth:	9 - 10

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.33**	9.82	0.348	mg/kg	06.07.18 02.27	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**28.8**	15.0	9.88	mg/kg	06.11.18 01.03		1
C10-C28 Diesel Range Organics	C10C28DRO	**14.1**	15.0	9.88	mg/kg	06.11.18 01.03	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**12.1**	15.0	9.88	mg/kg	06.11.18 01.03	J	1
Total TPH	PHC635	**55.0**	15.0	9.88	mg/kg	06.11.18 01.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	06.11.18 01.03	
o-Terphenyl	84-15-1	126	%	70-135	06.11.18 01.03	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NW Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-055	Date Collected:	05.31.18 11.35	Sample Depth:	9 - 10
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.08.18 22.23	U	1
Toluene	108-88-3	**0.00163**	0.00100	0.000501	mg/kg	06.08.18 22.23		1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.08.18 22.23	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.08.18 22.23	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.08.18 22.23	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.08.18 22.23	U	1
Total BTEX		**0.00163**	0.00100	0.000501	mg/kg	06.08.18 22.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	74-126	06.08.18 22.23	
1,2-Dichloroethane-D4	17060-07-0	122	%	80-120	06.08.18 22.23	**
Toluene-D8	2037-26-5	97	%	73-132	06.08.18 22.23	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-056	Date Collected:	05.31.18 11.45	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.39**	9.88	0.350	mg/kg	06.07.18 03.00	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**24.8**	15.0	9.88	mg/kg	06.11.18 01.24		1
C10-C28 Diesel Range Organics	C10C28DRO	**12.6**	15.0	9.88	mg/kg	06.11.18 01.24	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 01.24	U	1
Total TPH	PHC635	**37.4**	15.0	9.88	mg/kg	06.11.18 01.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	06.11.18 01.24	
o-Terphenyl	84-15-1	122	%	70-135	06.11.18 01.24	

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Sample Id:	**NE Confirmation 0-1**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-056	Date Collected:	05.31.18 11.45	Sample Depth:	0 - 1
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.08.18 20.14	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.08.18 20.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	112	%	74-126	06.08.18 20.14	
1,2-Dichloroethane-D4	17060-07-0	122	%	80-120	06.08.18 20.14	**
Toluene-D8	2037-26-5	93	%	73-132	06.08.18 20.14	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-057	Date Collected:	05.31.18 11.45	Sample Depth:	1 - 2

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.0**	9.90	0.350	mg/kg	06.07.18 03.10		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**30.3**	15.0	9.88	mg/kg	06.11.18 01.45		1
C10-C28 Diesel Range Organics	C10C28DRO	**11.9**	15.0	9.88	mg/kg	06.11.18 01.45	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 01.45	U	1
Total TPH	PHC635	**42.2**	15.0	9.88	mg/kg	06.11.18 01.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	06.11.18 01.45	
o-Terphenyl	84-15-1	122	%	70-135	06.11.18 01.45	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 1-2**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-057	Date Collected:	05.31.18 11.45	Sample Depth:	1 - 2
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.08.18 22.39	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.08.18 22.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	106	%	74-126	06.08.18 22.39	
1,2-Dichloroethane-D4	17060-07-0	116	%	80-120	06.08.18 22.39	
Toluene-D8	2037-26-5	98	%	73-132	06.08.18 22.39	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-058	Date Collected:	05.31.18 11.45	Sample Depth:	2 - 3

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.7**	9.96	0.353	mg/kg	06.07.18 03.21		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	**29.5**	15.0	9.88	mg/kg	06.11.18 02.06		1
C10-C28 Diesel Range Organics	C10C28DRO	**13.3**	15.0	9.88	mg/kg	06.11.18 02.06	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	**9.90**	15.0	9.88	mg/kg	06.11.18 02.06	J	1
Total TPH	PHC635	**52.7**	15.0	9.88	mg/kg	06.11.18 02.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	06.11.18 02.06	
o-Terphenyl	84-15-1	123	%	70-135	06.11.18 02.06	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 2-3**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-058	Date Collected:	05.31.18 11.45	Sample Depth:	2 - 3
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.08.18 22.55	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.08.18 22.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	74-126	06.08.18 22.55	
1,2-Dichloroethane-D4	17060-07-0	114	%	80-120	06.08.18 22.55	
Toluene-D8	2037-26-5	98	%	73-132	06.08.18 22.55	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-059	Date Collected:	05.31.18 11.45	Sample Depth:	3 - 4

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.2**	9.94	0.352	mg/kg	06.07.18 03.54		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.07.18 16.42	Basis:	Wet Weight
Seq Number:	3052890			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.88	15.0	9.88	mg/kg	06.11.18 02.27	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.88	15.0	9.88	mg/kg	06.11.18 02.27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.88	15.0	9.88	mg/kg	06.11.18 02.27	U	1
Total TPH	PHC635	<9.88	15.0	9.88	mg/kg	06.11.18 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	06.11.18 02.27	
o-Terphenyl	84-15-1	119	%	70-135	06.11.18 02.27	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 3-4**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-059	Date Collected:	05.31.18 11.45	Sample Depth:	3 - 4
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1
Toluene	108-88-3	<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1
Ethylbenzene	100-41-4	<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1
m,p-Xylenes	179601-23-1	<0.000990	0.00198	0.000990	mg/kg	06.08.18 23.11	U	1
o-Xylene	95-47-6	<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1
Total Xylenes	1330-20-7	<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1
Total BTEX		<0.000495	0.000990	0.000495	mg/kg	06.08.18 23.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	74-126	06.08.18 23.11	
1,2-Dichloroethane-D4	17060-07-0	113	%	80-120	06.08.18 23.11	
Toluene-D8	2037-26-5	98	%	73-132	06.08.18 23.11	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NE Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-060	Date Collected:	05.31.18 11.45	Sample Depth:	4 - 5

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.25**	9.86	0.349	mg/kg	06.07.18 04.04	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 11.51	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.83	14.9	9.83	mg/kg	06.10.18 19.47	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.83	14.9	9.83	mg/kg	06.10.18 19.47	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.83	14.9	9.83	mg/kg	06.10.18 19.47	U	1
Total TPH	PHC635	<9.83	14.9	9.83	mg/kg	06.10.18 19.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	06.10.18 19.47	
o-Terphenyl	84-15-1	135	%	70-135	06.10.18 19.47	

Certificate of Analytical Results 587854

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Venables

Sample Id:	**NE Confirmation 4-5**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-060	Date Collected:	05.31.18 11.45	Sample Depth:	4 - 5
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.08.18 23.28	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	06.08.18 23.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	115	%	74-126	06.08.18 23.28	
1,2-Dichloroethane-D4	17060-07-0	124	%	80-120	06.08.18 23.28	**
Toluene-D8	2037-26-5	94	%	73-132	06.08.18 23.28	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-061	Date Collected:	05.31.18 11.45	Sample Depth:	5 - 6

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.55**	9.90	0.350	mg/kg	06.07.18 04.15	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.00	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.79	14.9	9.79	mg/kg	06.10.18 20.08	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.79	14.9	9.79	mg/kg	06.10.18 20.08	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.79	14.9	9.79	mg/kg	06.10.18 20.08	U	1
Total TPH	PHC635	<9.79	14.9	9.79	mg/kg	06.10.18 20.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.10.18 20.08	
o-Terphenyl	84-15-1	128	%	70-135	06.10.18 20.08	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 5-6**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-061	Date Collected:	05.31.18 11.45	Sample Depth:	5 - 6
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.08.18 23.44	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.08.18 23.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.08.18 23.44	
1,2-Dichloroethane-D4	17060-07-0	121	%	80-120	06.08.18 23.44	**
Toluene-D8	2037-26-5	95	%	73-132	06.08.18 23.44	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-062	Date Collected:	05.31.18 11.45	Sample Depth:	6 - 7

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.39**	9.88	0.350	mg/kg	06.07.18 04.26	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.03	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.83	14.9	9.83	mg/kg	06.10.18 20.29	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.83	14.9	9.83	mg/kg	06.10.18 20.29	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.83	14.9	9.83	mg/kg	06.10.18 20.29	U	1
Total TPH	PHC635	<9.83	14.9	9.83	mg/kg	06.10.18 20.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.10.18 20.29	
o-Terphenyl	84-15-1	128	%	70-135	06.10.18 20.29	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 6-7**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-062	Date Collected:	05.31.18 11.45	Sample Depth:	6 - 7
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	06.09.18 00.00	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	06.09.18 00.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.09.18 00.00	
1,2-Dichloroethane-D4	17060-07-0	119	%	80-120	06.09.18 00.00	
Toluene-D8	2037-26-5	87	%	73-132	06.09.18 00.00	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-063	Date Collected:	05.31.18 11.45	Sample Depth:	7 - 8

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.51**	9.92	0.351	mg/kg	06.07.18 04.37	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.06	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.83	14.9	9.83	mg/kg	06.10.18 20.50	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.83	14.9	9.83	mg/kg	06.10.18 20.50	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.83	14.9	9.83	mg/kg	06.10.18 20.50	U	1
Total TPH	PHC635	<9.83	14.9	9.83	mg/kg	06.10.18 20.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	06.10.18 20.50	
o-Terphenyl	84-15-1	130	%	70-135	06.10.18 20.50	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 7-8**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-063	Date Collected:	05.31.18 11.45	Sample Depth:	7 - 8
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1
Ethylbenzene	100-41-4	<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	06.09.18 00.16	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1
Total BTEX		<0.000501	0.00100	0.000501	mg/kg	06.09.18 00.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	115	%	74-126	06.09.18 00.16	
1,2-Dichloroethane-D4	17060-07-0	116	%	80-120	06.09.18 00.16	
Toluene-D8	2037-26-5	90	%	73-132	06.09.18 00.16	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-064	Date Collected:	05.31.18 11.45	Sample Depth:	8 - 9

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.50**	9.77	0.346	mg/kg	06.07.18 04.48	J	1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.09	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.84	14.9	9.84	mg/kg	06.10.18 21.12	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.84	14.9	9.84	mg/kg	06.10.18 21.12	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.84	14.9	9.84	mg/kg	06.10.18 21.12	U	1
Total TPH	PHC635	<9.84	14.9	9.84	mg/kg	06.10.18 21.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	06.10.18 21.12	
o-Terphenyl	84-15-1	127	%	70-135	06.10.18 21.12	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 8-9**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-064	Date Collected:	05.31.18 11.45	Sample Depth:	8 - 9
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	06.09.18 00.32	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1
Total BTEX		<0.000499	0.000998	0.000499	mg/kg	06.09.18 00.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	117	%	74-126	06.09.18 00.32	
1,2-Dichloroethane-D4	17060-07-0	119	%	80-120	06.09.18 00.32	
Toluene-D8	2037-26-5	92	%	73-132	06.09.18 00.32	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-065	Date Collected:	05.31.18 11.45	Sample Depth:	9 - 10

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	06.06.18 17.08	Basis:	Wet Weight
Seq Number:	3052553			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.3**	9.88	0.350	mg/kg	06.07.18 04.58		1

Analytical Method:	TPH by SW 8015B			Prep Method:	SW8015P
Tech:	ARL			% Moisture:	
Analyst:	ISU	Date Prep:	06.08.18 12.12	Basis:	Wet Weight
Seq Number:	3052956			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<9.78	14.9	9.78	mg/kg	06.10.18 21.33	U	1
C10-C28 Diesel Range Organics	C10C28DRO	<9.78	14.9	9.78	mg/kg	06.10.18 21.33	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<9.78	14.9	9.78	mg/kg	06.10.18 21.33	U	1
Total TPH	PHC635	<9.78	14.9	9.78	mg/kg	06.10.18 21.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	06.10.18 21.33	
o-Terphenyl	84-15-1	135	%	70-135	06.10.18 21.33	

Certificate of Analytical Results 587854

R2M Engineering, Lubbock, TX

Venables

Sample Id:	**NE Confirmation 9-10**	Matrix:	Soil	Date Received:	05.31.18 16.00
Lab Sample Id:	587854-065	Date Collected:	05.31.18 11.45	Sample Depth:	9 - 10
Analytical Method:	BTEX by SW 8260B			Prep Method:	SW5035A
Tech:	CHH			% Moisture:	
Analyst:	CHH	Date Prep:	06.08.18 18.30	Basis:	Wet Weight
Seq Number:	3053017			SUB:	TX104704215-18-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1
Toluene	108-88-3	<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1
Ethylbenzene	100-41-4	<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1
m,p-Xylenes	179601-23-1	<0.000990	0.00198	0.000990	mg/kg	06.09.18 00.49	U	1
o-Xylene	95-47-6	<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1
Total Xylenes	1330-20-7	<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1
Total BTEX		<0.000495	0.000990	0.000495	mg/kg	06.09.18 00.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	113	%	74-126	06.09.18 00.49	
1,2-Dichloroethane-D4	17060-07-0	120	%	80-120	06.09.18 00.49	
Toluene-D8	2037-26-5	87	%	73-132	06.09.18 00.49	

Flagging Criteria

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

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 587854

R2M Engineering
Venables

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: SW9056P
Seq Number: 3052514 Matrix: Solid Date Prep: 06.05.18
MB Sample Id: 7656058-1-BLK LCS Sample Id: 7656058-1-BKS LCSD Sample Id: 7656058-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	98.7	99	99.1	99	80-120	0	20	mg/kg	06.06.18 06:54	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052603 Matrix: Solid Date Prep: 06.06.18
MB Sample Id: 7656061-1-BLK LCS Sample Id: 7656061-1-BKS LCSD Sample Id: 7656061-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	101	101	99.2	99	80-120	2	20	mg/kg	06.07.18 05:42	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052553 Matrix: Solid Date Prep: 06.06.18
MB Sample Id: 7656150-1-BLK LCS Sample Id: 7656150-1-BKS LCSD Sample Id: 7656150-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	99.6	100	100	100	80-120	0	20	mg/kg	06.06.18 19:58	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: SW9056P
Seq Number: 3052514 Matrix: Soil Date Prep: 06.05.18
Parent Sample Id: 588042-001 MS Sample Id: 588042-001 S MSD Sample Id: 588042-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.42	24.5	28.8	91	28.9	92	80-120	0	20	mg/kg	06.06.18 07:36	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052603 Matrix: Soil Date Prep: 06.06.18
Parent Sample Id: 587854-007 MS Sample Id: 587854-007 S MSD Sample Id: 587854-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	884	99.4	963	79	967	84	80-120	0	20	mg/kg	06.07.18 06:14	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052603 Matrix: Soil Date Prep: 06.06.18
Parent Sample Id: 587854-054 MS Sample Id: 587854-054 S MSD Sample Id: 587854-054 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.77	98.6	103	102	103	102	80-120	0	20	mg/kg	06.07.18 15:22	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052553 Matrix: Soil Date Prep: 06.06.18
Parent Sample Id: 587854-055 MS Sample Id: 587854-055 S MSD Sample Id: 587854-055 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.33	98.2	108	104	108	104	80-120	0	20	mg/kg	06.07.18 02:38	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3052553 Matrix: Soil Date Prep: 06.06.18
Parent Sample Id: 588400-010 MS Sample Id: 588400-010 S MSD Sample Id: 588400-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	116	119	243	107	243	107	80-120	0	20	mg/kg	06.06.18 21:03	

Analytical Method: **TPH by SW 8015B** Prep Method: SW8015P
Seq Number: 3052891 Matrix: Solid Date Prep: 06.07.18
MB Sample Id: 7656193-1-BLK LCS Sample Id: 7656193-1-BKS LCSD Sample Id: 7656193-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	860	86	838	84	70-135	3	35	mg/kg	06.09.18 23:02	
C10-C28 Diesel Range Organics	<9.88	1000	978	98	948	95	70-135	3	35	mg/kg	06.09.18 23:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		116		116		70-135	%	06.09.18 23:02
o-Terphenyl	118		114		110		70-135	%	06.09.18 23:02

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 587854

R2M Engineering

Venables

Analytical Method: TPH by SW 8015B — Prep Method: SW8015P
Seq Number: 3052890 — Matrix: Solid — Date Prep: 06.07.18
MB Sample Id: 7656229-1-BLK — LCS Sample Id: 7656229-1-BKS — LCSD Sample Id: 7656229-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	880	88	900	90	70-135	2	35	mg/kg	06.10.18 08:07	
C10-C28 Diesel Range Organics	<9.88	1000	993	99	1050	105	70-135	6	35	mg/kg	06.10.18 08:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		122		121		70-135	%	06.10.18 08:07
o-Terphenyl	127		119		122		70-135	%	06.10.18 08:07

Analytical Method: TPH by SW 8015B — Prep Method: SW8015P
Seq Number: 3052956 — Matrix: Solid — Date Prep: 06.08.18
MB Sample Id: 7656271-1-BLK — LCS Sample Id: 7656271-1-BKS — LCSD Sample Id: 7656271-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	823	82	838	84	70-135	2	35	mg/kg	06.10.18 18:00	
C10-C28 Diesel Range Organics	<9.88	1000	877	88	929	93	70-135	6	35	mg/kg	06.10.18 18:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		115		70-135	%	06.10.18 18:00
o-Terphenyl	123		104		108		70-135	%	06.10.18 18:00

Analytical Method: TPH by SW 8015B — Prep Method: SW8015P
Seq Number: 3052891 — Matrix: Soil — Date Prep: 06.07.18
Parent Sample Id: 587854-012 — MS Sample Id: 587854-012 S — MSD Sample Id: 587854-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.87	999	846	85	850	86	70-135	0	35	mg/kg	06.10.18 00:05	
C10-C28 Diesel Range Organics	<9.87	999	974	97	993	100	70-135	2	35	mg/kg	06.10.18 00:05	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		118		70-135	%	06.10.18 00:05
o-Terphenyl	112		113		70-135	%	06.10.18 00:05

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 587854

R2M Engineering

Venables

Analytical Method: TPH by SW 8015B | Prep Method: SW8015P
Seq Number: 3052890 | Matrix: Soil | Date Prep: 06.07.18
Parent Sample Id: 587854-040 | MS Sample Id: 587854-040 S | MSD Sample Id: 587854-040 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.88	1000	861	86	782	78	70-135	10	35	mg/kg	06.10.18 09:31	
C10-C28 Diesel Range Organics	<9.88	1000	984	98	880	88	70-135	11	35	mg/kg	06.10.18 09:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		106		70-135	%	06.10.18 09:31
o-Terphenyl	115		99		70-135	%	06.10.18 09:31

Analytical Method: TPH by SW 8015B | Prep Method: SW8015P
Seq Number: 3052956 | Matrix: Soil | Date Prep: 06.08.18
Parent Sample Id: 587854-060 | MS Sample Id: 587854-060 S | MSD Sample Id: 587854-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hydrocarbons	<9.82	994	1000	101	1010	102	70-135	1	35	mg/kg	06.11.18 10:33	
C10-C28 Diesel Range Organics	<9.82	994	1170	118	1190	120	70-135	2	35	mg/kg	06.11.18 10:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		114		70-135	%	06.11.18 10:33
o-Terphenyl	108		109		70-135	%	06.11.18 10:33

Analytical Method: BTEX by SW 8260B | Prep Method: SW5035A
Seq Number: 3052363 | Matrix: Solid | Date Prep: 06.04.18
MB Sample Id: 7656048-1-BLK | LCS Sample Id: 7656048-1-BKS | LCSD Sample Id: 7656048-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0938	94	0.0978	98	62-132	4	25	mg/kg	06.04.18 20:27	
Toluene	<0.000500	0.100	0.0941	94	0.0963	96	66-124	2	25	mg/kg	06.04.18 20:27	
Ethylbenzene	<0.000500	0.100	0.0981	98	0.104	104	71-134	6	25	mg/kg	06.04.18 20:27	
m,p-Xylenes	<0.00100	0.200	0.207	104	0.220	110	69-128	6	25	mg/kg	06.04.18 20:27	
o-Xylene	<0.000500	0.100	0.101	101	0.106	106	72-131	5	25	mg/kg	06.04.18 20:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	110		101		98		74-126	%	06.04.18 20:27
1,2-Dichloroethane-D4	83		115		115		80-120	%	06.04.18 20:27
Toluene-D8	97		102		106		73-132	%	06.04.18 20:27

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5030B

Seq Number: 3052687 Matrix: Solid Date Prep: 06.07.18

MB Sample Id: 7656244-1-BLK LCS Sample Id: 7656244-1-BKS LCSD Sample Id: 7656244-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0912	91	0.0909	91	62-132	0	25	mg/kg	06.07.18 15:15	
Toluene	<0.000500	0.100	0.0984	98	0.0992	99	66-124	1	25	mg/kg	06.07.18 15:15	
Ethylbenzene	<0.000500	0.100	0.0985	99	0.0997	100	71-134	1	25	mg/kg	06.07.18 15:15	
m,p-Xylenes	<0.00100	0.200	0.204	102	0.206	103	69-128	1	25	mg/kg	06.07.18 15:15	
o-Xylene	<0.000500	0.100	0.102	102	0.107	107	72-131	5	25	mg/kg	06.07.18 15:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	95		97		94		74-126	%	06.07.18 15:15
1,2-Dichloroethane-D4	95		101		100		80-120	%	06.07.18 15:15
Toluene-D8	100		101		103		73-132	%	06.07.18 15:15

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5030B

Seq Number: 3053017 Matrix: Solid Date Prep: 06.08.18

MB Sample Id: 7656434-1-BLK LCS Sample Id: 7656434-1-BKS LCSD Sample Id: 7656434-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0872	87	0.0975	98	62-132	11	25	mg/kg	06.08.18 18:12	
Toluene	<0.000500	0.100	0.0869	87	0.0911	91	66-124	5	25	mg/kg	06.08.18 18:12	
Ethylbenzene	<0.000500	0.100	0.0890	89	0.0909	91	71-134	2	25	mg/kg	06.08.18 18:12	
m,p-Xylenes	<0.00100	0.200	0.178	89	0.178	89	69-128	0	25	mg/kg	06.08.18 18:12	
o-Xylene	<0.000500	0.100	0.0874	87	0.0874	87	72-131	0	25	mg/kg	06.08.18 18:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	110		104		103		74-126	%	06.08.18 18:12
1,2-Dichloroethane-D4	102		112		120		80-120	%	06.08.18 18:12
Toluene-D8	93		103		98		73-132	%	06.08.18 18:12

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3053013 Matrix: Solid Date Prep: 06.09.18

MB Sample Id: 7656432-1-BLK LCS Sample Id: 7656432-1-BKS LCSD Sample Id: 7656432-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.111	111	0.110	110	62-132	1	25	mg/kg	06.09.18 09:41	
Toluene	<0.000500	0.100	0.106	106	0.106	106	66-124	0	25	mg/kg	06.09.18 09:41	
Ethylbenzene	<0.000500	0.100	0.111	111	0.111	111	71-134	0	25	mg/kg	06.09.18 09:41	
m,p-Xylenes	<0.00100	0.200	0.222	111	0.222	111	69-128	0	25	mg/kg	06.09.18 09:41	
o-Xylene	<0.000500	0.100	0.113	113	0.111	111	72-131	2	25	mg/kg	06.09.18 09:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	109		98		101		74-126	%	06.09.18 09:41
1,2-Dichloroethane-D4	117		112		117		80-120	%	06.09.18 09:41
Toluene-D8	88		101		105		73-132	%	06.09.18 09:41

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3053406 Matrix: Solid Date Prep: 06.14.18

MB Sample Id: 7656643-1-BLK LCS Sample Id: 7656643-1-BKS LCSD Sample Id: 7656643-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0912	91	0.0956	96	62-132	5	25	mg/kg	06.14.18 09:46	
Toluene	<0.000500	0.100	0.0859	86	0.0927	93	66-124	8	25	mg/kg	06.14.18 09:46	
Ethylbenzene	<0.000500	0.100	0.0883	88	0.0946	95	71-134	7	25	mg/kg	06.14.18 09:46	
m,p-Xylenes	<0.00100	0.200	0.187	94	0.201	101	69-128	7	25	mg/kg	06.14.18 09:46	
o-Xylene	<0.000500	0.100	0.0955	96	0.105	105	72-131	9	25	mg/kg	06.14.18 09:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		97		98		74-126	%	06.14.18 09:46
1,2-Dichloroethane-D4	103		103		101		80-120	%	06.14.18 09:46
Toluene-D8	95		97		100		73-132	%	06.14.18 09:46

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3052363 Matrix: Soil Date Prep: 06.04.18

Parent Sample Id: 587854-012 MS Sample Id: 587854-012 S MSD Sample Id: 587854-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0716	72	0.0723	72	62-132	1	25	mg/kg	06.04.18 20:59	
Toluene	<0.000500	0.100	0.0712	71	0.0661	66	66-124	7	25	mg/kg	06.04.18 20:59	
Ethylbenzene	<0.000500	0.100	0.0745	75	0.0709	71	71-134	5	25	mg/kg	06.04.18 20:59	
m,p-Xylenes	<0.00100	0.200	0.150	75	0.143	72	69-128	5	25	mg/kg	06.04.18 20:59	
o-Xylene	<0.000500	0.100	0.0686	69	0.0639	64	72-131	7	25	mg/kg	06.04.18 20:59	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	104		105		74-126	%	06.04.18 20:59
1,2-Dichloroethane-D4	97		110		80-120	%	06.04.18 20:59
Toluene-D8	105		100		73-132	%	06.04.18 20:59

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5030B

Seq Number: 3053017 Matrix: Soil Date Prep: 06.08.18

Parent Sample Id: 587856-004 MS Sample Id: 587856-004 S MSD Sample Id: 587856-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000548	0.110	0.0753	68	0.0759	70	62-132	1	25	mg/kg	06.09.18 01:53	
Toluene	<0.000548	0.110	0.0636	58	0.0675	62	66-124	6	25	mg/kg	06.09.18 01:53	X
Ethylbenzene	<0.000548	0.110	0.0637	58	0.0675	62	71-134	6	25	mg/kg	06.09.18 01:53	X
m,p-Xylenes	<0.00110	0.219	0.123	56	0.130	60	69-128	6	25	mg/kg	06.09.18 01:53	X
o-Xylene	<0.000548	0.110	0.0590	54	0.0608	56	72-131	3	25	mg/kg	06.09.18 01:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	107		109		74-126	%	06.09.18 01:53
1,2-Dichloroethane-D4	124	**	119		80-120	%	06.09.18 01:53
Toluene-D8	92		98		73-132	%	06.09.18 01:53

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3053013 Matrix: Soil Date Prep: 06.09.18

Parent Sample Id: 587854-028 MS Sample Id: 587854-028 S MSD Sample Id: 587854-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000496	0.0992	0.0755	76	0.0640	65	62-132	16	25	mg/kg	06.09.18 11:29	
Toluene	0.000602	0.0992	0.0720	72	0.0593	59	66-124	19	25	mg/kg	06.09.18 11:29	X
Ethylbenzene	<0.000496	0.0992	0.0744	75	0.0581	59	71-134	25	25	mg/kg	06.09.18 11:29	X
m,p-Xylenes	<0.000992	0.198	0.149	75	0.115	58	69-128	26	25	mg/kg	06.09.18 11:29	XF
o-Xylene	<0.000496	0.0992	0.0704	71	0.0568	57	72-131	21	25	mg/kg	06.09.18 11:29	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	108		108		74-126	%	06.09.18 11:29
1,2-Dichloroethane-D4	108		120		80-120	%	06.09.18 11:29
Toluene-D8	101		98		73-132	%	06.09.18 11:29

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5035A

Seq Number: 3053406 Matrix: Soil Date Prep: 06.14.18

Parent Sample Id: 588431-010 MS Sample Id: 588431-010 S MSD Sample Id: 588431-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000686	0.137	0.0787	57	0.0815	56	62-132	3	25	mg/kg	06.14.18 10:22	X
Toluene	<0.000686	0.137	0.0708	52	0.0752	52	66-124	6	25	mg/kg	06.14.18 10:22	X
Ethylbenzene	<0.000686	0.137	0.0754	55	0.0759	52	71-134	1	25	mg/kg	06.14.18 10:22	X
m,p-Xylenes	<0.00137	0.274	0.155	57	0.156	54	69-128	1	25	mg/kg	06.14.18 10:22	X
o-Xylene	<0.000686	0.137	0.0707	52	0.0703	48	72-131	1	25	mg/kg	06.14.18 10:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	0	**	109		74-126	%	06.14.18 10:22
1,2-Dichloroethane-D4	111		115		80-120	%	06.14.18 10:22
Toluene-D8	95		96		73-132	%	06.14.18 10:22

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 587854

R2M Engineering

Venables

Analytical Method: **BTEX by SW 8260B** Prep Method: SW5030B

Seq Number: 3052687 Matrix: Soil Date Prep: 06.07.18

Parent Sample Id: 588381-001 MS Sample Id: 588381-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000575	0.115	0.0796	69	62-132	mg/kg	06.07.18 15:50	
Toluene	0.00358	0.115	0.0860	72	66-124	mg/kg	06.07.18 15:50	
Ethylbenzene	0.00264	0.115	0.0787	66	71-134	mg/kg	06.07.18 15:50	X
m,p-Xylenes	0.00605	0.230	0.162	68	69-128	mg/kg	06.07.18 15:50	X
o-Xylene	0.00369	0.115	0.0840	70	72-131	mg/kg	06.07.18 15:50	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		74-126	%	06.07.18 15:50
1,2-Dichloroethane-D4	107		80-120	%	06.07.18 15:50
Toluene-D8	99		73-132	%	06.07.18 15:50

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

CHAIN OF CUSTODY

XENCO LABORATORIES

Page 1 Of

Revision 2016.1

Setting the Standard since 1990

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Midland, TX (432) 704-5440
San Antonio, TX (210) 509-3334
Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550

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587854

Xenco Quote #

Xenco Job # 587854

Client / Reporting Information

Company Name / Branch: RZM

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables

Project Location: Hobbs NM

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH 8021	Chloride	Field Comments
1	Con 2001		5-31-18	730	S	1								X	X	X	X	
2	"			730														Hold 1
3	Con 2002			733											X	X	X	
4	"			733														Hold 3
5	Con 2003			739											X	X	X	
6	"			739														Hold 5
7	Con 2004			744											X	X	X	
8	"			744														Hold 8
9																		
10																		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [x] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MAS	5-31-18 16:30	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time: 5/31/18	Received By: 5 Brenda Ward 1600	Custody Seal #	Preserved where applicable	On Ice: Y	Cooler Temp. 3.3 / 3.3	Thermo. Corr. Factor FR: 3

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

Revision 2016.1

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Xenco Quote # | Xenco Job # 587854

Client / Reporting Information

Company Name / Branch: R2M

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Ventables

Project Location: Hobbs

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	Chloride				Hold				Field Comments
1	SB-2	2-3	5-31-18	920	S	1								X							X				9
2	"	3-4																			X				10
3	"	4-5																			X				11
4	SB 2.2	0-1'		830											X	X	X								12
5	SB 2.3	0-1'		840											X	X	X								13
6	BB 2.4	0-1'		851											X	X	X								14
7	SB-5	3-4		940																	X				15
8	SB-6	3-4		956																	X				16
9	SB-7	3-4		1012																	X				17
10	SB-10	3-4		1025																	X				18

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MP	5-31-18	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time: 5/31/18 16:00	Received By: Brenda Ward	Custody Seal #	Preserved where applicable	On ice: ✓ Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR 3

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CHAIN OF CUSTODY

Page 3 Of 3

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Dallas, TX (214) 902-0300 | Lubbock, TX (806) 794-1296 | San Antonio, TX (210) 509-3334 | Service Center - Baton Rouge, LA (832) 712-8143 | Service Center- Hobbs, NM (575) 392-7550

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Xenco Quote # | Xenco Job # 587854

Client / Reporting Information

Company Name / Branch: R2M
Company Address:
Email: Phone No:
Project Contact:
Samplers's Name:

Project Information

Project Name/Number: Venable 4
Project Location: Hobbs
Invoice To:
PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Hold	BTEX	TPH	Chloride	Field Comments
1	SB-3	2-3	5/31	~~1050~~	S	1								X	X				19
2	"	3-4		1050											X				20
3	"	4-5													X				21
4	"	5-6													X				22
5	STOCKPILE 3	0-4		1100	S	1								X		X	X	X	23
6	STOCKPILE 4	0-1	5-31	1330	S	1										X	X	X	24
7																			25
8	PIT BOTTOM	0-1	5-31	1325	S	1										X	X	X	[illegible]
9																			
10																			

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MAS	5-31-18 16:00	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time: 5/31/18 1600	Received By: Brenda Ward	Custody Seal #	Preserved where applicable	On Ice ✓ Cooler Temp. 3.3/3.3 Thermo. Corr. Factor TR 3

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CHAIN OF CUSTODY

Page 4 Of 8

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Xenco Quote # | Xenco Job # 587854

Client / Reporting Information

Company Name / Branch: R2M

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables

Project Location: Hobbs

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	Chloride	BTEX	Hold	Field Comments
1	SW Confirmation	0-1	5/31	11:25	S	1								X					26
2	"	1-2																	27
3	"	2-3																	28
4	"	3-4																	29
5	"	4-5																	30
6	"	5-6																	31
7	"	6-7																	32
8	"	7-8																	33
9	"	8-9																	34
10	"	9-10																	35

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [x] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] Level II Report with TRRP checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MAS		1	2		2
3			3	4		4
5		5/31/18 14:00	Brenda Ward	Custody Seal #	Preserved where applicable	On Ice: ✓ Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR-3

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CHAIN OF CUSTODY

Revision 2016.1

XENCO LABORATORIES

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San Antonio, TX (210) 509-3334
Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550
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Xenco Quote # | Xenco Job # 587854

Client / Reporting Information

Company Name / Branch:
Company Address:
Email: Phone No:
Project Contact:
Samplers's Name:

Project Information

Project Name/Number:
Project Location:
Invoice To:
PO Number:

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Analytical Information: TPH	Chloride	BTEX	HMS	Field Comments
1	SE Confirmation	0-1	5/31	1115	S	1								X					36
2	"	1-2																	37
3	"	2-3																	38
4	"	3-4																	39
5	"	4-5																	40
6	"	5-6																	41
7	"	6-7																	42
8	"	7-8																	43
9	"	8-9																	44
10	"	9-10																	45

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 MDS		1	2		2
3 Relinquished by:	Date Time:	Received By: 3	4 Relinquished By:	Date Time:	4 Received By:
5 Relinquished by:	Date Time: 5/31/18 16:00	Received By: 5 Brenda Ward	Custody Seal #	Preserved where applicable	On Ice: Y Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR-3

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

Revision 2016.1

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, TX (281) 240-4200
Dallas, TX (214) 902-0300
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Lubbock, TX (806) 794-1296
Midland, TX (432) 704-5440
San Antonio, TX (210) 509-3334
Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550
www.xenco.com

Xenco Quote #

Xenco Job # 587854

Client / Reporting Information

Company Name / Branch:

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number:

Project Location:

Invoice To:

PO Number:

Analytical Information

TPH | Chloride | BTEX | 8260 MMS

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	Chloride	BTEX	8260 MMS	Field Comments
1	NW Confirmation	0-1	5/31	11:35											X	X	X	X	46
2	"	1-2													X	X	X	X	47
3	"	2-3																	48
4	"	3-4																	49
5	"	4-5																	50
6	"	5-6																	51
7	"	6-7																	52
8	"	7-8																	53
9	"	8-9																	54
10	"	9-10																	55

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [x] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] Level II Report with TRRP checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MMS		1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time: 5/31/18 1600	Received By: Brenda Ward	Custody Seal #	Preserved where applicable	On Ice ✓ Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR-3

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CHAIN OF CUSTODY

Page 7 Of 8

Revision 2016.1

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, TX (281) 240-4200
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Lubbock, TX (806) 794-1296
Midland, TX (432) 704-5440
San Antonio, TX (210) 509-3334
Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550
www.xenco.com

Xenco Quote #

Xenco Job # 587854

Client / Reporting Information	Project Information
Company Name / Branch:	Project Name/Number:
Company Address:	Project Location:
Email: Phone No:	Invoice To:
Project Contact:	PO Number:
Samplers's Name:	

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TAT	BTEX	Chloride	Field Comments
1	NE Confirmation	0-1	5/3	1145	S	1								4	4	4	1	56
2	"	1-2																57
3	"	2-3																58
4	"	3-4																59
5	"	4-5																60
6	"	5-6																61
7	"	6-7																62
8	"	7-8																63
9	"	8-9																64
10	"	9-10																65

Turnaround Time (Business days)

Data Deliverable Information

- ☐ Same Day TAT
- ☐ 5 Day TAT
- ☐ Next Day EMERGENCY
- ☐ 7 Day TAT
- ☐ 2 Day EMERGENCY
- ☐ Contract TAT
- ☐ 3 Day EMERGENCY
- ☐ Level II Std QC
- ☐ Level III Std QC+ Forms
- ☐ Level 3 (CLP Forms)
- ☐ Level II Report with TRRP checklist
- ☐ Level IV (Full Data Pkg /raw data)
- ☐ TRRP Level IV
- ☐ UST / RG -411

TAT Starts Day received by Lab, if received by 5:00 pm

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice
5	5/3/18 16:00	5 Brenda Ward			✓

Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR 3

CHAIN OF CUSTODY

Revision 2016.1

XENCO LABORATORIES

Setting the Standard since 1990

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Midland, TX (432) 704-5440
San Antonio, TX (210) 509-3334
Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143
Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550
www.xenco.com

Xenco Quote #

Xenco Job # 587854

Client / Reporting Information

Company Name / Branch: RZM

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables

Project Location: Hobbs

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	HOLD	Field Comments
1	SB-01	2-3	5/31	1345	S	1								X	X	66
2	"	3-4													X	67
3	"	4-5													X	68
4	"	5-6													X	69
5	"															
6																
7																
8																
9																
10																

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MOS	5-31-10	1	2		2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time: 5/31/10 16:00	Received By: 5 Brenda Ward	Custody Seal #	Preserved where applicable	On Ice: Cooler Temp. 3.3/3.3 Thermo. Corr. Factor IR-3

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Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-001	S	Con 2001	05/31/18 07:30	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-001	S	Con 2001	05/31/18 07:30	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-001	S	Con 2001	05/31/18 07:30	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-003	S	Con 2002	05/31/18 07:33	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-003	S	Con 2002	05/31/18 07:33	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-003	S	Con 2002	05/31/18 07:33	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-005	S	Con 2003	05/31/18 07:39	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-005	S	Con 2003	05/31/18 07:39	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-005	S	Con 2003	05/31/18 07:39	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-007	S	Con 2004	05/31/18 07:44	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-007	S	Con 2004	05/31/18 07:44	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-007	S	Con 2004	05/31/18 07:44	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-012	S	SB-2.2	05/31/18 08:30	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-012	S	SB-2.2	05/31/18 08:30	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-012	S	SB-2.2	05/31/18 08:30	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-013	S	SB-2.3	05/31/18 08:40	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-013	S	SB-2.3	05/31/18 08:40	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-013	S	SB-2.3	05/31/18 08:40	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-014	S	SB-2.4	05/31/18 08:51	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-014	S	SB-2.4	05/31/18 08:51	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-014	S	SB-2.4	05/31/18 08:51	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-023	S	Stockpile 3	05/31/18 11:00	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-023	S	Stockpile 3	05/31/18 11:00	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-023	S	Stockpile 3	05/31/18 11:00	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-024	S	Stockpile 4	05/31/18 13:30	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-024	S	Stockpile 4	05/31/18 13:30	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-024	S	Stockpile 4	05/31/18 13:30	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-025	S	Pit Bottom	05/31/18 13:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-025	S	Pit Bottom	05/31/18 13:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-025	S	Pit Bottom	05/31/18 13:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-026	S	SW Confirmation 0-1	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-026	S	SW Confirmation 0-1	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-026	S	SW Confirmation 0-1	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-027	S	SW Confirmation 1-2	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-027	S	SW Confirmation 1-2	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-027	S	SW Confirmation 1-2	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-028	S	SW Confirmation 2-3	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-028	S	SW Confirmation 2-3	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-028	S	SW Confirmation 2-3	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-029	S	SW Confirmation 3-4	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-029	S	SW Confirmation 3-4	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-029	S	SW Confirmation 3-4	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-030	S	SW Confirmation 4-5	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-030	S	SW Confirmation 4-5	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-030	S	SW Confirmation 4-5	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-031	S	SW Confirmation 5-6	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-031	S	SW Confirmation 5-6	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-031	S	SW Confirmation 5-6	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-032	S	SW Confirmation 6-7	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-032	S	SW Confirmation 6-7	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-032	S	SW Confirmation 6-7	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-033	S	SW Confirmation 7-8	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-033	S	SW Confirmation 7-8	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-033	S	SW Confirmation 7-8	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-034	S	SW Confirmation 8-9	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-034	S	SW Confirmation 8-9	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-034	S	SW Confirmation 8-9	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-035	S	SW Confirmation 9-10	05/31/18 11:25	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-035	S	SW Confirmation 9-10	05/31/18 11:25	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-035	S	SW Confirmation 9-10	05/31/18 11:25	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-036	S	SE Confirmation 0-1	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-036	S	SE Confirmation 0-1	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-036	S	SE Confirmation 0-1	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-037	S	SE Confirmation 1-2	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-037	S	SE Confirmation 1-2	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-037	S	SE Confirmation 1-2	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-038	S	SE Confirmation 2-3	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-038	S	SE Confirmation 2-3	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-038	S	SE Confirmation 2-3	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-039	S	SE Confirmation 3-4	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-039	S	SE Confirmation 3-4	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-039	S	SE Confirmation 3-4	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-040	S	SE Confirmation 4-5	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-040	S	SE Confirmation 4-5	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-040	S	SE Confirmation 4-5	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-041	S	SE Confirmation 5-6	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-041	S	SE Confirmation 5-6	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-041	S	SE Confirmation 5-6	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-042	S	SE Confirmation 6-7	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-042	S	SE Confirmation 6-7	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-042	S	SE Confirmation 6-7	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-043	S	SE Confirmation 7-8	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-043	S	SE Confirmation 7-8	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-043	S	SE Confirmation 7-8	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-044	S	SE Confirmation 8-9	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-044	S	SE Confirmation 8-9	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-044	S	SE Confirmation 8-9	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-045	S	SE Confirmation 9-10	05/31/18 11:15	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-045	S	SE Confirmation 9-10	05/31/18 11:15	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-045	S	SE Confirmation 9-10	05/31/18 11:15	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-046	S	NW Confirmation 0-1	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-046	S	NW Confirmation 0-1	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-046	S	NW Confirmation 0-1	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-047	S	NW Confirmation 1-2	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-047	S	NW Confirmation 1-2	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-047	S	NW Confirmation 1-2	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-048	S	NW Confirmation 2-3	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-048	S	NW Confirmation 2-3	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-048	S	NW Confirmation 2-3	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-049	S	NW Confirmation 3-4	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-049	S	NW Confirmation 3-4	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-049	S	NW Confirmation 3-4	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-050	S	NW Confirmation 4-5	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-050	S	NW Confirmation 4-5	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-050	S	NW Confirmation 4-5	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-051	S	NW Confirmation 5-6	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-051	S	NW Confirmation 5-6	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-051	S	NW Confirmation 5-6	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-052	S	NW Confirmation 6-7	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-052	S	NW Confirmation 6-7	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-052	S	NW Confirmation 6-7	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-053	S	NW Confirmation 7-8	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-053	S	NW Confirmation 7-8	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-053	S	NW Confirmation 7-8	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-054	S	NW Confirmation 8-9	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-054	S	NW Confirmation 8-9	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-054	S	NW Confirmation 8-9	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-055	S	NW Confirmation 9-10	05/31/18 11:35	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-055	S	NW Confirmation 9-10	05/31/18 11:35	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-055	S	NW Confirmation 9-10	05/31/18 11:35	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-056	S	NE Confirmation 0-1	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-056	S	NE Confirmation 0-1	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-056	S	NE Confirmation 0-1	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-057	S	NE Confirmation 1-2	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-057	S	NE Confirmation 1-2	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
587854-057	S	NE Confirmation 1-2	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-058	S	NE Confirmation 2-3	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-058	S	NE Confirmation 2-3	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-058	S	NE Confirmation 2-3	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-059	S	NE Confirmation 3-4	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-059	S	NE Confirmation 3-4	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-059	S	NE Confirmation 3-4	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-060	S	NE Confirmation 4-5	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-060	S	NE Confirmation 4-5	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-060	S	NE Confirmation 4-5	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-061	S	NE Confirmation 5-6	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-061	S	NE Confirmation 5-6	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-061	S	NE Confirmation 5-6	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-062	S	NE Confirmation 6-7	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-062	S	NE Confirmation 6-7	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-062	S	NE Confirmation 6-7	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-063	S	NE Confirmation 7-8	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-063	S	NE Confirmation 7-8	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-063	S	NE Confirmation 7-8	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-064	S	NE Confirmation 8-9	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	
587854-064	S	NE Confirmation 8-9	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-064	S	NE Confirmation 8-9	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-065	S	NE Confirmation 9-10	05/31/18 11:45	SW8015B_NM	TPH by SW 8015B	06/06/18	06/14/18	HTA	PHCC10C28	
587854-065	S	NE Confirmation 9-10	05/31/18 11:45	E300	Inorganic Anions by EPA 300/300.1	06/06/18	06/28/18	HTA	CL	
587854-065	S	NE Confirmation 9-10	05/31/18 11:45	SW8260BTX	BTEX by SW 8260B	06/06/18	06/14/18	HTA	BZ BZME EBZ XYLMP X	

Inter-Office Shipment

IOS Number **108129**

Date/Time:	06/01/18 11:39	Created by:	Brenda Ward	Please send report to:	Holly Taylor
Lab# From:	**Lubbock**	Delivery Priority:		Address:	6701 Aberdeen, Suite 9 Lubbock, TX 79424
Lab# To:	**Houston**	Air Bill No.:	868933180303	Phone:	
				E-Mail:	holly.taylor@xenco.com

Inter-Office Shipment

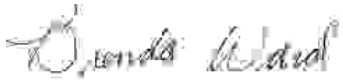
IOS Number **108129**

Date/Time:	06/01/18 11:39	Created by:	Brenda Ward
Lab# From:	**Lubbock**	Delivery Priority:	
Lab# To:	**Houston**	Air Bill No.:	868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Inter Office Shipment or Sample Comments:

Missing Samples: 007,013,019,020,021,022
Received Extra: Samples 023, 024, 025, 066

Relinquished By 
Brenda Ward

Date Relinquished: 06/04/2018

Received By: 
Monica Shakhshir

Date Received: 06/02/2018 09:20

Inter-Office Shipment

IOS Number **108129**

Date/Time: 06/01/18 11:39
Lab# From: **Lubbock**
Lab# To: **Houston**

Created by: Brenda Ward
Delivery Priority:
Air Bill No.: 868933180303

Please send report to: Holly Taylor
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
Phone:
E-Mail: holly.taylor@xenco.com

Cooler Temperature: 5.8

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 108129

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-068

Sent By: Brenda Ward **Date Sent:** 06/01/2018 11:39 AM

Received By: Monica Shakhshir **Date Received:** 06/02/2018 09:20 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5.8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**Yes**	Missing Samples: 007,013,019,020,021,022 Received Extra: Samples 023,024,025,066
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 06/02/2018
Monica Shakhshir

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: R2M Engineering

Date/ Time Received: 05/31/2018 04:00:00 PM

Work Order #: 587854

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Houston Xenco
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brenda Ward Date: 06/01/2018

Checklist reviewed by: Holly Taylor Date: 06/04/2018

Certificate of Analysis Summary 590437

R2M Engineering, Lubbock, TX

Project Name: Venables Case IRP 4935

Project Id:

Contact: Mason Sanders

Project Location: Hobbs IRP 4935

Date Received in Lab: Tue Jun-26-18 02:39 pm

Report Date: 28-JUN-18

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	590437-001		590437-002		590437-003		590437-004		590437-005		590437-007	
	Field Id:	SB-10 0-1		SB-10 1-2		SB-10 2-3		SB-10 3-4		SB-10A 0-1		SB-10B 0-1	
	Depth:	0-1		1-2		2-3		3-4		0-1		0-1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-26-18 09:00		Jun-26-18 09:00		Jun-26-18 09:00		Jun-26-18 09:00		Jun-26-18 09:50		Jun-26-18 10:28	
BTEX by EPA 8021B	***Extracted:***	Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00	
	Analyzed:	Jun-28-18 05:31		Jun-28-18 00:26		Jun-28-18 00:54		Jun-27-18 21:43		Jun-28-18 01:21		Jun-28-18 02:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00902	0.0200	<0.00895	0.0198	<0.00873	0.0193	<0.00895	0.0198	<0.00885	0.0196	<0.00834	0.0185
Toluene		<0.00467	0.0200	<0.00463	0.0198	<0.00452	0.0193	<0.00463	0.0198	<0.00458	0.0196	<0.00432	0.0185
Ethylbenzene		<0.00615	0.0200	<0.00610	0.0198	<0.00595	0.0193	<0.00610	0.0198	<0.00603	0.0196	<0.00568	0.0185
m,p-Xylenes		<0.00681	0.0399	<0.00675	0.0396	<0.00658	0.0386	<0.00675	0.0396	<0.00667	0.0391	<0.00629	0.0369
o-Xylene		<0.00681	0.0200	<0.00675	0.0198	<0.00658	0.0193	<0.00675	0.0198	<0.00667	0.0196	<0.00629	0.0185
Total Xylenes		<0.00681	0.0200	<0.00675	0.0198	<0.00658	0.0193	<0.00675	0.0198	<0.00667	0.0196	<0.00629	0.0185
Total BTEX		<0.00467	0.0200	<0.00463	0.0198	<0.00452	0.0193	<0.00463	0.0198	<0.00458	0.0196	<0.00432	0.0185
DRO-ORO By SW8015B	***Extracted:***	Jun-27-18 12:00		Jun-27-18 12:00		Jun-27-18 12:00		Jun-27-18 12:00		Jun-27-18 12:00		Jun-27-18 12:00	
	Analyzed:	Jun-27-18 12:45		Jun-27-18 14:29		Jun-27-18 15:04		Jun-27-18 15:39		Jun-27-18 16:15		Jun-27-18 17:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Diesel Range Organics (DRO)		157	25.0	84.6	24.8	61.9	25.1	34.6	24.8	41.3	25.2	<7.43	24.8
Oil Range Hydrocarbons (ORO)		33.4	25.0	17.3 J	24.8	18.7 J	25.1	11.2 J	24.8	9.71 J	25.2	<7.43	24.8
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jun-28-18 08:30		Jun-28-18 08:30		Jun-28-18 08:30		Jun-28-18 08:30		Jun-28-18 08:30		Jun-28-18 08:30	
	Analyzed:	Jun-28-18 09:35		Jun-28-18 10:25		Jun-28-18 10:37		Jun-28-18 10:50		Jun-28-18 11:02		Jun-28-18 11:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		219	25.0	74.6	25.0	51.6	25.0	58.9	25.0	48.1	25.0	19.6 J	25.0
TPH GRO by EPA 8015 Mod.	***Extracted:***	Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00		Jun-27-18 11:00	
	Analyzed:	Jun-28-18 05:31		Jun-28-18 00:26		Jun-28-18 00:54		Jun-27-18 21:43		Jun-28-18 01:21		Jun-28-18 02:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH-GRO		<0.270	3.99	<0.268	3.96	<0.262	3.86	<0.268	3.96	<0.265	3.91	<0.250	3.69

Holly Taylor
Project Manager

Certificate of Analysis Summary 590437

R2M Engineering, Lubbock, TX

Project Name: Venables Case IRP 4935

Project Id:
Contact: Mason Sanders
Project Location: Hobbs IRP 4935

Date Received in Lab: Tue Jun-26-18 02:39 pm
Report Date: 28-JUN-18
Project Manager: Holly Taylor

Analysis Requested																					
	Lab Id:	590437-009				590437-010				590437-011				590437-012				590437-013			
	Field Id:	SF-4 0-1				SF-5 0-1				SF-6 0-1				Stockpile 1				Stockpile 2			
	Depth:	0-1				0-1				0-1				0-1				0-1			
	Matrix:	SOIL				SOIL				SOIL				SOIL				SOIL			
	Sampled:	Jun-26-18 10:40				Jun-26-18 10:43				Jun-26-18 10:48				Jun-26-18 08:40				Jun-26-18 08:42			
BTEX by EPA 8021B	***Extracted:***	Jun-27-18 11:00				Jun-27-18 11:00				Jun-27-18 11:00											
	Analyzed:	Jun-28-18 05:58				Jun-28-18 06:26				Jun-28-18 06:54											
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL										
Benzene		<0.00800	0.0177			<0.00885	0.0196			<0.00810	0.0179										
Toluene		<0.00414	0.0177			<0.00458	0.0196			<0.00419	0.0179										
Ethylbenzene		<0.00545	0.0177			<0.00603	0.0196			<0.00552	0.0179										
m,p-Xylenes		<0.00604	0.0354			<0.00667	0.0391			<0.00611	0.0358										
o-Xylene		<0.00604	0.0177			<0.00667	0.0196			<0.00611	0.0179										
Total Xylenes		<0.00604	0.0177			<0.00667	0.0196			<0.00611	0.0179										
Total BTEX		<0.00414	0.0177			<0.00458	0.0196			<0.00419	0.0179										
DRO-ORO By SW8015B	***Extracted:***	Jun-27-18 12:00				Jun-27-18 12:00				Jun-27-18 12:00				Jun-27-18 12:00				Jun-27-18 12:00			
	Analyzed:	Jun-27-18 18:35				Jun-27-18 19:10				Jun-27-18 19:45				Jun-27-18 20:21				Jun-27-18 20:55			
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL		
Diesel Range Organics (DRO)		501	24.9			354	25.2			<7.45	24.9			214	25.2			263	24.9		
Oil Range Hydrocarbons (ORO)		110	24.9			80.5	25.2			<7.45	24.9			48.3	25.2			59.0	24.9		
Inorganic Anions by EPA 300/300.1	***Extracted:***	Jun-28-18 08:30				Jun-28-18 08:30				Jun-28-18 08:30											
	Analyzed:	Jun-28-18 11:52				Jun-28-18 12:17				Jun-28-18 13:06											
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL										
Chloride		570	125			280	25.0			15.6 J	25.0										
TPH GRO by EPA 8015 Mod.	***Extracted:***	Jun-27-18 11:00				Jun-27-18 11:00				Jun-27-18 11:00				Jun-27-18 11:00				Jun-27-18 11:00			
	Analyzed:	Jun-28-18 05:58				Jun-28-18 06:26				Jun-28-18 06:54				Jun-28-18 07:21				Jun-28-18 03:13			
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL		
TPH-GRO		<0.240	3.54			<0.265	3.91			<0.243	3.58			<0.265	3.91			<0.254	3.75		

Holly Taylor
Project Manager

Analytical Report 590437

for

R2M Engineering

Project Manager: Mason Sanders

Venables Case IRP 4935

28-JUN-18

Collected By: Client

6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

28-JUN-18

Project Manager: **Mason Sanders**
R2M Engineering
5012 50th
Suite 204
Lubbock, TX 79414

Reference: XENCO Report No(s): **590437**
Venables Case IRP 4935
Project Address: Hobbs IRP 4935

Mason Sanders:

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) 590437. 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. 590437 will be filed for 45 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,

Holly Taylor
Project Manager

Sample Cross Reference 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-10 0-1	S	06-26-18 09:00	0 - 1	590437-001
SB-10 1-2	S	06-26-18 09:00	1 - 2	590437-002
SB-10 2-3	S	06-26-18 09:00	2 - 3	590437-003
SB-10 3-4	S	06-26-18 09:00	3 - 4	590437-004
SB-10A 0-1	S	06-26-18 09:50	0 - 1	590437-005
SB-10B 0-1	S	06-26-18 10:28	0 - 1	590437-007
SF-4 0-1	S	06-26-18 10:40	0 - 1	590437-009
SF-5 0-1	S	06-26-18 10:43	0 - 1	590437-010
SF-6 0-1	S	06-26-18 10:48	0 - 1	590437-011
Stockpile 1	S	06-26-18 08:40	0 - 1	590437-012
Stockpile 2	S	06-26-18 08:42	0 - 1	590437-013
SB-10A 1-2	S	06-26-18 09:50	1 - 2	Not Analyzed
SB-10B 1-2	S	06-26-18 10:28	1 - 2	Not Analyzed

CASE NARRATIVE

Client Name: R2M Engineering

Project Name: Venables Case IRP 4935

Project ID:
Work Order Number(s): *590437*

Report Date: *28-JUN-18*
Date Received: *06/26/2018*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3054840 DRO-ORO By SW8015B
Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 590437-001 SD,590437-001,590437-009,590437-010,590437-012,590437-013.
Surrogate Tricosane recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7657413-1-BLK,590437-001 S,590437-001 SD,590437-010,590437-009,590437-001,590437-012,590437-013.

Batch: LBA-3054857 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3054859 TPH GRO by EPA 8015 Mod.
Lab Sample ID 590437-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
TPH-GRO Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 590437-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013

Outlier/s are due to possible matrix interference.
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 590437-004 SD.
Surrogate a,a,a-Trifluorotoluene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7657417-1-BLK,590437-002.

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-001	Date Collected:	06.26.18 09.00	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**219**	25.0	0.572	mg/kg	06.28.18 09.35		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**157**	25.0	7.49	mg/kg	06.27.18 12.45		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**33.4**	25.0	7.49	mg/kg	06.27.18 12.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	198	%	65-144	06.27.18 12.45	**
n-Triacontane	638-68-6	156	%	46-152	06.27.18 12.45	**

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00902	0.0200	0.00902	mg/kg	06.28.18 05.31	U	1
Toluene	108-88-3	<0.00467	0.0200	0.00467	mg/kg	06.28.18 05.31	U	1
Ethylbenzene	100-41-4	<0.00615	0.0200	0.00615	mg/kg	06.28.18 05.31	U	1
m,p-Xylenes	179601-23-1	<0.00681	0.0399	0.00681	mg/kg	06.28.18 05.31	U	1
o-Xylene	95-47-6	<0.00681	0.0200	0.00681	mg/kg	06.28.18 05.31	U	1
Total Xylenes	1330-20-7	<0.00681	0.0200	0.00681	mg/kg	06.28.18 05.31	U	1
Total BTEX		<0.00467	0.0200	0.00467	mg/kg	06.28.18 05.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	68-120	06.28.18 05.31	
a,a,a-Trifluorotoluene	98-08-8	105	%	71-121	06.28.18 05.31	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-001	Date Collected:	06.26.18 09.00	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.270	3.99	0.270	mg/kg	06.28.18 05.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	76-123	06.28.18 05.31	
a,a,a-Trifluorotoluene	98-08-8	88	%	69-120	06.28.18 05.31	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 1-2**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-002	Date Collected:	06.26.18 09.00	Sample Depth:	1 - 2

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**74.6**	25.0	0.572	mg/kg	06.28.18 10.25		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**84.6**	24.8	7.41	mg/kg	06.27.18 14.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**17.3**	24.8	7.41	mg/kg	06.27.18 14.29	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	138	%	65-144	06.27.18 14.29	
n-Triacontane	638-68-6	118	%	46-152	06.27.18 14.29	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00895	0.0198	0.00895	mg/kg	06.28.18 00.26	U	1
Toluene	108-88-3	<0.00463	0.0198	0.00463	mg/kg	06.28.18 00.26	U	1
Ethylbenzene	100-41-4	<0.00610	0.0198	0.00610	mg/kg	06.28.18 00.26	U	1
m,p-Xylenes	179601-23-1	<0.00675	0.0396	0.00675	mg/kg	06.28.18 00.26	U	1
o-Xylene	95-47-6	<0.00675	0.0198	0.00675	mg/kg	06.28.18 00.26	U	1
Total Xylenes	1330-20-7	<0.00675	0.0198	0.00675	mg/kg	06.28.18 00.26	U	1
Total BTEX		<0.00463	0.0198	0.00463	mg/kg	06.28.18 00.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	68-120	06.28.18 00.26	
a,a,a-Trifluorotoluene	98-08-8	121	%	71-121	06.28.18 00.26	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 1-2**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-002	Date Collected:	06.26.18 09.00	Sample Depth:	1 - 2
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.268	3.96	0.268	mg/kg	06.28.18 00.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	76-123	06.28.18 00.26	
a,a,a-Trifluorotoluene	98-08-8	143	%	69-120	06.28.18 00.26	**

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 2-3**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-003	Date Collected:	06.26.18 09.00	Sample Depth:	2 - 3

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.6**	25.0	0.572	mg/kg	06.28.18 10.37		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**61.9**	25.1	7.50	mg/kg	06.27.18 15.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**18.7**	25.1	7.50	mg/kg	06.27.18 15.04	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	142	%	65-144	06.27.18 15.04	
n-Triacontane	638-68-6	111	%	46-152	06.27.18 15.04	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00873	0.0193	0.00873	mg/kg	06.28.18 00.54	U	1
Toluene	108-88-3	<0.00452	0.0193	0.00452	mg/kg	06.28.18 00.54	U	1
Ethylbenzene	100-41-4	<0.00595	0.0193	0.00595	mg/kg	06.28.18 00.54	U	1
m,p-Xylenes	179601-23-1	<0.00658	0.0386	0.00658	mg/kg	06.28.18 00.54	U	1
o-Xylene	95-47-6	<0.00658	0.0193	0.00658	mg/kg	06.28.18 00.54	U	1
Total Xylenes	1330-20-7	<0.00658	0.0193	0.00658	mg/kg	06.28.18 00.54	U	1
Total BTEX		<0.00452	0.0193	0.00452	mg/kg	06.28.18 00.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	68-120	06.28.18 00.54	
a,a,a-Trifluorotoluene	98-08-8	115	%	71-121	06.28.18 00.54	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 2-3**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-003	Date Collected:	06.26.18 09.00	Sample Depth:	2 - 3
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.262	3.86	0.262	mg/kg	06.28.18 00.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	76-123	06.28.18 00.54	
a,a,a-Trifluorotoluene	98-08-8	95	%	69-120	06.28.18 00.54	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 3-4**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-004	Date Collected:	06.26.18 09.00	Sample Depth:	3 - 4

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**58.9**	25.0	0.572	mg/kg	06.28.18 10.50		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**34.6**	24.8	7.43	mg/kg	06.27.18 15.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**11.2**	24.8	7.43	mg/kg	06.27.18 15.39	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	114	%	65-144	06.27.18 15.39	
n-Triacontane	638-68-6	110	%	46-152	06.27.18 15.39	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00895	0.0198	0.00895	mg/kg	06.27.18 21.43	U	1
Toluene	108-88-3	<0.00463	0.0198	0.00463	mg/kg	06.27.18 21.43	U	1
Ethylbenzene	100-41-4	<0.00610	0.0198	0.00610	mg/kg	06.27.18 21.43	U	1
m,p-Xylenes	179601-23-1	<0.00675	0.0396	0.00675	mg/kg	06.27.18 21.43	U	1
o-Xylene	95-47-6	<0.00675	0.0198	0.00675	mg/kg	06.27.18 21.43	U	1
Total Xylenes	1330-20-7	<0.00675	0.0198	0.00675	mg/kg	06.27.18 21.43	U	1
Total BTEX		<0.00463	0.0198	0.00463	mg/kg	06.27.18 21.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	68-120	06.27.18 21.43	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	06.27.18 21.43	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10 3-4**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-004	Date Collected:	06.26.18 09.00	Sample Depth:	3 - 4
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.268	3.96	0.268	mg/kg	06.27.18 21.43	UF	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	76-123	06.27.18 21.43	
a,a,a-Trifluorotoluene	98-08-8	97	%	69-120	06.27.18 21.43	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10A 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-005	Date Collected:	06.26.18 09.50	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.1**	25.0	0.572	mg/kg	06.28.18 11.02		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**41.3**	25.2	7.53	mg/kg	06.27.18 16.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**9.71**	25.2	7.53	mg/kg	06.27.18 16.15	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	119	%	65-144	06.27.18 16.15	
n-Triacontane	638-68-6	101	%	46-152	06.27.18 16.15	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00885	0.0196	0.00885	mg/kg	06.28.18 01.21	U	1
Toluene	108-88-3	<0.00458	0.0196	0.00458	mg/kg	06.28.18 01.21	U	1
Ethylbenzene	100-41-4	<0.00603	0.0196	0.00603	mg/kg	06.28.18 01.21	U	1
m,p-Xylenes	179601-23-1	<0.00667	0.0391	0.00667	mg/kg	06.28.18 01.21	U	1
o-Xylene	95-47-6	<0.00667	0.0196	0.00667	mg/kg	06.28.18 01.21	U	1
Total Xylenes	1330-20-7	<0.00667	0.0196	0.00667	mg/kg	06.28.18 01.21	U	1
Total BTEX		<0.00458	0.0196	0.00458	mg/kg	06.28.18 01.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	68-120	06.28.18 01.21	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	06.28.18 01.21	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10A 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-005	Date Collected:	06.26.18 09.50	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.265	3.91	0.265	mg/kg	06.28.18 01.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	76-123	06.28.18 01.21	
a,a,a-Trifluorotoluene	98-08-8	96	%	69-120	06.28.18 01.21	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10B 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-007	Date Collected:	06.26.18 10.28	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.6**	25.0	0.572	mg/kg	06.28.18 11.14	J	1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.43	24.8	7.43	mg/kg	06.27.18 17.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.43	24.8	7.43	mg/kg	06.27.18 17.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	94	%	65-144	06.27.18 17.25	
n-Triacontane	638-68-6	88	%	46-152	06.27.18 17.25	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00834	0.0185	0.00834	mg/kg	06.28.18 02.17	U	1
Toluene	108-88-3	<0.00432	0.0185	0.00432	mg/kg	06.28.18 02.17	U	1
Ethylbenzene	100-41-4	<0.00568	0.0185	0.00568	mg/kg	06.28.18 02.17	U	1
m,p-Xylenes	179601-23-1	<0.00629	0.0369	0.00629	mg/kg	06.28.18 02.17	U	1
o-Xylene	95-47-6	<0.00629	0.0185	0.00629	mg/kg	06.28.18 02.17	U	1
Total Xylenes	1330-20-7	<0.00629	0.0185	0.00629	mg/kg	06.28.18 02.17	U	1
Total BTEX		<0.00432	0.0185	0.00432	mg/kg	06.28.18 02.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	68-120	06.28.18 02.17	
a,a,a-Trifluorotoluene	98-08-8	112	%	71-121	06.28.18 02.17	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SB-10B 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-007	Date Collected:	06.26.18 10.28	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.250	3.69	0.250	mg/kg	06.28.18 02.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	76-123	06.28.18 02.17	
a,a,a-Trifluorotoluene	98-08-8	98	%	69-120	06.28.18 02.17	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-4 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-009	Date Collected:	06.26.18 10.40	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**570**	125	2.86	mg/kg	06.28.18 11.52		5

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**501**	24.9	7.44	mg/kg	06.27.18 18.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**110**	24.9	7.44	mg/kg	06.27.18 18.35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	377	%	65-144	06.27.18 18.35	**
n-Triacontane	638-68-6	278	%	46-152	06.27.18 18.35	**

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00800	0.0177	0.00800	mg/kg	06.28.18 05.58	U	1
Toluene	108-88-3	<0.00414	0.0177	0.00414	mg/kg	06.28.18 05.58	U	1
Ethylbenzene	100-41-4	<0.00545	0.0177	0.00545	mg/kg	06.28.18 05.58	U	1
m,p-Xylenes	179601-23-1	<0.00604	0.0354	0.00604	mg/kg	06.28.18 05.58	U	1
o-Xylene	95-47-6	<0.00604	0.0177	0.00604	mg/kg	06.28.18 05.58	U	1
Total Xylenes	1330-20-7	<0.00604	0.0177	0.00604	mg/kg	06.28.18 05.58	U	1
Total BTEX		<0.00414	0.0177	0.00414	mg/kg	06.28.18 05.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	68-120	06.28.18 05.58	
a,a,a-Trifluorotoluene	98-08-8	99	%	71-121	06.28.18 05.58	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-4 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-009	Date Collected:	06.26.18 10.40	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.240	3.54	0.240	mg/kg	06.28.18 05.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	76-123	06.28.18 05.58	
a,a,a-Trifluorotoluene	98-08-8	80	%	69-120	06.28.18 05.58	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-5 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-010	Date Collected:	06.26.18 10.43	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**280**	25.0	0.572	mg/kg	06.28.18 12.17		1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**354**	25.2	7.53	mg/kg	06.27.18 19.10		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**80.5**	25.2	7.53	mg/kg	06.27.18 19.10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	291	%	65-144	06.27.18 19.10	**
n-Triacontane	638-68-6	189	%	46-152	06.27.18 19.10	**

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00885	0.0196	0.00885	mg/kg	06.28.18 06.26	U	1
Toluene	108-88-3	<0.00458	0.0196	0.00458	mg/kg	06.28.18 06.26	U	1
Ethylbenzene	100-41-4	<0.00603	0.0196	0.00603	mg/kg	06.28.18 06.26	U	1
m,p-Xylenes	179601-23-1	<0.00667	0.0391	0.00667	mg/kg	06.28.18 06.26	U	1
o-Xylene	95-47-6	<0.00667	0.0196	0.00667	mg/kg	06.28.18 06.26	U	1
Total Xylenes	1330-20-7	<0.00667	0.0196	0.00667	mg/kg	06.28.18 06.26	U	1
Total BTEX		<0.00458	0.0196	0.00458	mg/kg	06.28.18 06.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	68-120	06.28.18 06.26	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	06.28.18 06.26	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-5 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-010	Date Collected:	06.26.18 10.43	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.265	3.91	0.265	mg/kg	06.28.18 06.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	76-123	06.28.18 06.26	
a,a,a-Trifluorotoluene	98-08-8	95	%	69-120	06.28.18 06.26	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-6 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-011	Date Collected:	06.26.18 10.48	Sample Depth:	0 - 1

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	06.28.18 08.30	Basis:	Wet Weight
Seq Number:	3054909				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.6**	25.0	0.572	mg/kg	06.28.18 13.06	J	1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.45	24.9	7.45	mg/kg	06.27.18 19.45	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.45	24.9	7.45	mg/kg	06.27.18 19.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	92	%	65-144	06.27.18 19.45	
n-Triacontane	638-68-6	91	%	46-152	06.27.18 19.45	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054857				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00810	0.0179	0.00810	mg/kg	06.28.18 06.54	U	1
Toluene	108-88-3	<0.00419	0.0179	0.00419	mg/kg	06.28.18 06.54	U	1
Ethylbenzene	100-41-4	<0.00552	0.0179	0.00552	mg/kg	06.28.18 06.54	U	1
m,p-Xylenes	179601-23-1	<0.00611	0.0358	0.00611	mg/kg	06.28.18 06.54	U	1
o-Xylene	95-47-6	<0.00611	0.0179	0.00611	mg/kg	06.28.18 06.54	U	1
Total Xylenes	1330-20-7	<0.00611	0.0179	0.00611	mg/kg	06.28.18 06.54	U	1
Total BTEX		<0.00419	0.0179	0.00419	mg/kg	06.28.18 06.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	68-120	06.28.18 06.54	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	06.28.18 06.54	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**SF-6 0-1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-011	Date Collected:	06.26.18 10.48	Sample Depth:	0 - 1
Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.243	3.58	0.243	mg/kg	06.28.18 06.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	76-123	06.28.18 06.54	
a,a,a-Trifluorotoluene	98-08-8	91	%	69-120	06.28.18 06.54	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**Stockpile 1**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-012	Date Collected:	06.26.18 08.40	Sample Depth:	0 - 1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**214**	25.2	7.54	mg/kg	06.27.18 20.21		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**48.3**	25.2	7.54	mg/kg	06.27.18 20.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	194	%	65-144	06.27.18 20.21	**
n-Triacontane	638-68-6	159	%	46-152	06.27.18 20.21	**

Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.265	3.91	0.265	mg/kg	06.28.18 07.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	76-123	06.28.18 07.21	
a,a,a-Trifluorotoluene	98-08-8	93	%	69-120	06.28.18 07.21	

Certificate of Analytical Results 590437

R2M Engineering, Lubbock, TX

Venables Case IRP 4935

Sample Id:	**Stockpile 2**	Matrix:	Soil	Date Received:	06.26.18 14.39
Lab Sample Id:	590437-013	Date Collected:	06.26.18 08.42	Sample Depth:	0 - 1

Analytical Method:	DRO-ORO By SW8015B			Prep Method:	SW8015P
Tech:	PGM			% Moisture:	
Analyst:	PGM	Date Prep:	06.27.18 12.00	Basis:	Wet Weight
Seq Number:	3054840				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	**263**	24.9	7.45	mg/kg	06.27.18 20.55		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**59.0**	24.9	7.45	mg/kg	06.27.18 20.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	222	%	65-144	06.27.18 20.55	**
n-Triacontane	638-68-6	186	%	46-152	06.27.18 20.55	**

Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	06.27.18 11.00	Basis:	Wet Weight
Seq Number:	3054859				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.254	3.75	0.254	mg/kg	06.28.18 03.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	76-123	06.28.18 03.13	
a,a,a-Trifluorotoluene	98-08-8	98	%	69-120	06.28.18 03.13	

Flagging Criteria

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

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 590437

R2M Engineering

Venables Case IRP 4935

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3054909 Matrix: Solid Date Prep: 06.28.18
MB Sample Id: 7657496-1-BLK LCS Sample Id: 7657496-1-BKS LCSD Sample Id: 7657496-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.572	250	254	102	251	100	90-110	1	20	mg/kg	06.28.18 09:10	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3054909 Matrix: Soil Date Prep: 06.28.18
Parent Sample Id: 590437-001 MS Sample Id: 590437-001 S MSD Sample Id: 590437-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	219	250	483	106	482	105	80-120	0	20	mg/kg	06.28.18 10:00	

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P
Seq Number: 3054909 Matrix: Soil Date Prep: 06.28.18
Parent Sample Id: 590437-010 MS Sample Id: 590437-010 S MSD Sample Id: 590437-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	280	250	537	103	556	110	80-120	3	20	mg/kg	06.28.18 12:41	

Analytical Method: **DRO-ORO By SW8015B** Prep Method: SW8015P
Seq Number: 3054840 Matrix: Solid Date Prep: 06.27.18
MB Sample Id: 7657413-1-BLK LCS Sample Id: 7657413-1-BKS LCSD Sample Id: 7657413-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<7.48	100	102	102	106	106	63-139	4	20	mg/kg	06.27.18 11:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tricosane	1040	**	107		114		65-144	%	06.27.18 11:34
n-Triacontane	108		124		103		46-152	%	06.27.18 11:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 590437

R2M Engineering

Venables Case IRP 4935

Analytical Method: **DRO-ORO By SW8015B** Prep Method: SW8015P
Seq Number: 3054840 Matrix: Soil Date Prep: 06.27.18
Parent Sample Id: 590437-001 MS Sample Id: 590437-001 S MSD Sample Id: 590437-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	157	100	250	93	254	97	63-139	2	20	mg/kg	06.27.18 13:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tricosane	191	**	203	**	65-144	%	06.27.18 13:19
n-Triacontane	142		156	**	46-152	%	06.27.18 13:19

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3054857 Matrix: Solid Date Prep: 06.27.18
MB Sample Id: 7657416-1-BLK LCS Sample Id: 7657416-1-BKS LCSD Sample Id: 7657416-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00904	2.00	1.99	100	1.89	95	55-120	5	20	mg/kg	06.27.18 18:30	
Toluene	<0.00468	2.00	2.14	107	2.09	105	77-120	2	20	mg/kg	06.27.18 18:30	
Ethylbenzene	<0.00616	2.00	2.02	101	1.97	99	77-120	3	20	mg/kg	06.27.18 18:30	
m,p-Xylenes	<0.00682	4.00	4.06	102	3.94	99	78-120	3	20	mg/kg	06.27.18 18:30	
o-Xylene	<0.00682	2.00	1.99	100	1.95	98	78-120	2	20	mg/kg	06.27.18 18:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		93		93		68-120	%	06.27.18 18:30
a,a,a-Trifluorotoluene	102		97		91		71-121	%	06.27.18 18:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3054857 Matrix: Soil Date Prep: 06.27.18
Parent Sample Id: 590437-004 MS Sample Id: 590437-004 S MSD Sample Id: 590437-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00890	1.97	1.63	83	1.61	88	54-120	1	25	mg/kg	06.27.18 22:10	
Toluene	<0.00461	1.97	2.07	105	1.94	105	57-120	6	25	mg/kg	06.27.18 22:10	
Ethylbenzene	<0.00606	1.97	2.04	104	1.93	105	58-131	6	25	mg/kg	06.27.18 22:10	
m,p-Xylenes	<0.00671	3.94	4.08	104	3.86	105	62-124	6	25	mg/kg	06.27.18 22:10	
o-Xylene	<0.00671	1.97	2.02	103	1.91	104	62-124	6	25	mg/kg	06.27.18 22:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		100		68-120	%	06.27.18 22:10
a,a,a-Trifluorotoluene	95		99		71-121	%	06.27.18 22:10

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 590437

R2M Engineering

Venables Case IRP 4935

Analytical Method: **TPH GRO by EPA 8015 Mod.** Prep Method: SW5030B

Seq Number: 3054859 Matrix: Solid Date Prep: 06.27.18

MB Sample Id: 7657417-1-BLK LCS Sample Id: 7657417-1-BKS LCSD Sample Id: 7657417-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<0.271	20.0	20.8	104	19.3	97	35-129	7	20	mg/kg	06.27.18 19:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	88		103		102		76-123	%	06.27.18 19:25
a,a,a-Trifluorotoluene	123	**	106		107		69-120	%	06.27.18 19:25

Analytical Method: **TPH GRO by EPA 8015 Mod.** Prep Method: SW5030B

Seq Number: 3054859 Matrix: Soil Date Prep: 06.27.18

Parent Sample Id: 590437-004 MS Sample Id: 590437-004 S MSD Sample Id: 590437-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<0.256	18.9	18.4	97	11.0	55	35-129	50	20	mg/kg	06.27.18 23:05	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	115		51	**	76-123	%	06.27.18 23:05
a,a,a-Trifluorotoluene	87		72		69-120	%	06.27.18 23:05

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

CHAIN OF CUSTODY

Revision 2016.1

XENCO LABORATORIES

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590437

Xenco Quote #

Xenco Job # 590437

Client / Reporting Information

Company Name / Branch: R2M

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Venables

Project Location: Hobbs & IRR IRP 4935

Invoice To:

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface Water
SL - Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	Chloride	Hold	Field Comments
1	SB-10	0-1	6-26	900	S	1								✓					
2	"	1-2																	
3	"	2-3																	
4	"	3-4																	
5	SB-10A	0-1		950															
6	"	1-2																	
7	SB-10B	0-1		1020														X	
8	"	1-2																	
9	~~SB~~ SF 4	0-1		1040														X	
10	SF 5	0-1		1043															

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [x] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] Level II Report with TRRP checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	MDS	6/26/14 1309	1	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp / Therm. Corr. Factor
			5		N/A	✓ 3 2.2 0.0

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Chain of Custody

XENCO LABORATORIES

590437

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Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 2 of 2

Work Order No: _____

Project Manager:		Bill to: (if different)	Venables
Company Name:	R2M Engineering	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Venables Case IRP 4935	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: 2DAY	
Sampler's Name:	MVB	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	12.2	Thermometer ID		
Received Intact:	(Yes) No	IR3		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.0	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	3	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX	TPH	Chlorides	Work Order Notes
SF 6	S	6-26-18	1048	0-1	1	X	✓	✓	TAT starts the day recevied by the lab, if received by 4:30pm
Stockpile 1	S	1	1040	0-1	1	~~X~~	X	~~X~~	Sample Comments
Stockpile 2	S	1	1042	0-1	1	~~X~~	X	~~X~~	TPH only
									TPH only

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	MVB		6/26/18 4:31	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: R2M Engineering

Date/ Time Received: 06/26/2018 02:39:00 PM

Work Order #: 590437

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	12.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Brenda Ward Date: 06/26/2018

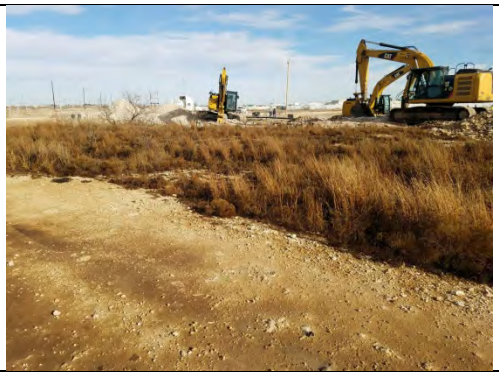
Checklist reviewed by: Holly Taylor Date: 06/28/2018

Appendix D

Photo Log

APPENDIX D

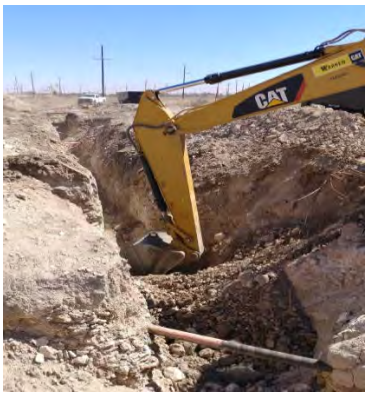
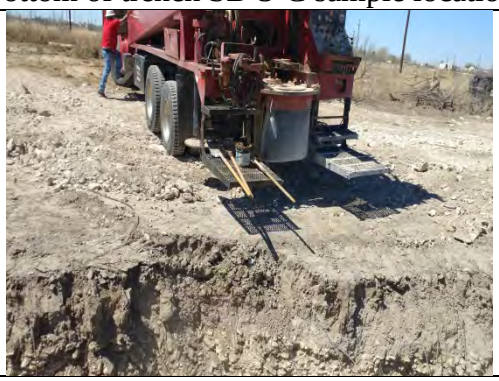
Photo Log
Pictures

	
Day of release	Day of release
	
Day of release	Light staining
	
Debris in trench facing north	Debris in trench facing south
	

APPENDIX D

Trench facing northeast	Scraping debris from trench
	
Trench facing northeast	Line strike and SB-01 location
	
Field efforts April 2, 2018	Trench facing south
	
Exposed line	Exposed line
	
Exposed line	Exposed line

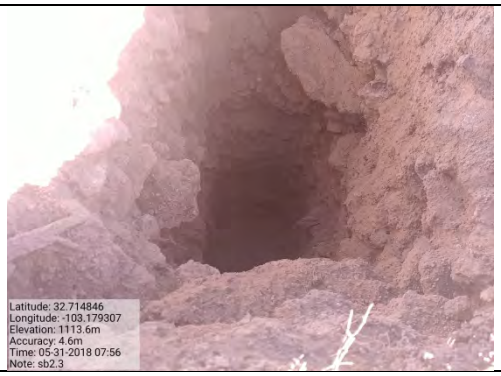
APPENDIX D

	
SB-03 and SB-3-C location	SB-03 and SB-3-C location
	
Excavator digging to depth for sample	Bottom of trench SB-3-C sample location
	
Field efforts April 3, 2018	Field efforts April 2, 2018
	
Plugged soil boring with bentonite	Site facing north northeast near strike

APPENDIX D

	
Stockpiles	View facing northwest
	
View facing south	Waste material in roll-off disposal
	
Waste material in roll-off disposal	Roll-offs for disposal
	
Scraped stockpile	SB-2.2 inside trench

APPENDIX D

	
SB-2.3 Inside trench	SB-2.4 Inside trench
	
Strike area	Over spray area
	
Excavation	Excavation
	
Overspray surface sample area	Overspray surface sample area

APPENDIX D

	
Overspray surface sample area	Overspray surface sample area
	
Overspray surface sample area	SB-10, SB-10A, SB-10B soil borings