

REMEDIATION SUMMARY AND

SITE CLOSURE REQUEST

ETC FIELD SERVICES, LLC A-14 Compressor Station (Below Ground Sump) Release Lea County, New Mexico UNIT LTR "I", Section 6, Township 24 South, Range 35 East, NMPM Latitude 32.246183° North, Longitude 103.402000° West NMOCD Reference # 1RP-4635

> **APPROVED** By Olivia Yu at 2:24 pm, Dec 19, 2017

Prepared For:

ETC Field Services, LLC 800 East Sonterra San Antonio, Texas 78258

NMOCD approves 1RP-4635 for closure.

Prepared By:

TRC Environmental Corporation 2057 Commerce Midland, Texas 79703

October 2017

Nikki Green Project Manager

Jeffrey Kindley, P.G. Senior Project Manager

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INTRODUCTION

TRC Environmental Corporation (TRC), on behalf of ETC Field Services, LLC (ETC), has prepared this Remediation Summary and Site Closure Request for the Release Site known as A-14 Compressor Station (Below Ground Sump). The legal description of the Release Site is Unit Letter "I", Section 6, Township 24 South, Range 35 East, in Lea County, New Mexico. The subject property is administered by the United States Bureau of Land Management (BLM). The GPS coordinates for the site are N 32.246183° W 103.402000°. Please reference Figure 1 for the Site Location Map, and Figure 4 for the Site Details and Confirmation Soil Sample Location Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On February 23, 2017, ETC discovered a crude oil and produced water release had occurred due to overfilling of the below ground sump. The released fluid flowed from the release point to the southwest corner of the facility and impacted an area measuring approximately four thousand (4,000) square feet. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2017. During initial response activities, ETC mobilized a vacuum truck to the location to remove all free standing liquids from the ground to mitigate the release. Less than five (5) barrels of fluid was released, with no recovery. Photographs of the site are provided as Appendix B.

NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 6, Township 24 South, Range 35 East. A reference map utilized by the NMOCD Hobbs District Office, indicates groundwater should be encountered at approximately two hundred and twenty-five (225) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the A-14 Compressor Station (Below Ground Sump) Release Site as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

The NMOCD guidelines indicate the A-14 Compressor Station (Below Ground Sump) Release Site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/Kg (ppm)
- Chloride 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On March 6, 2017, a representative of ETC submitted the "Proposed Delineation Workplan" for NMOCD and BLM consideration. The "Proposed Delineation Workplan" summarized the delineation activities strategy designed to progress the Release Site toward an NMOCD approved closure status. ETC received written approval from the NMOCD to proceed with the activities outlined in the "Proposed Delineation Workplan".

On March 21 and 22, 2017, due to safety concerns and the potential of striking underground piping and associated equipment within the vicinity of the A-14 Compressor Station, ETC utilized a hydro-vac prior to conducting any field sampling activities to identify the location of underground pipelines and other associated subsurface equipment. Soil excavated during hydro-vac activities was placed on a plastic liner adjacent to the Release Site.

On March 22 and March 23, 2017, TRC, on behalf of ETC, utilized a hand auger to collect eighteen (18) delineation soil samples (S-1 6" through S-7 6", S-1 1' through S-7 1', S-3 16", S-3 22", S-4 21", and S-4 2') from the surface soil stained area. The soil samples were submitted to Xenco Laboratories in Midland, Texas for determination of concentrations of BTEX using Method SW 846-8021B, TPH using Method SW 846-8015M, and chloride using Method E-300.1. The analytical results indicated benzene and BTEX concentrations were less than the applicable laboratory Method Detection Limit (MDL), with the exception of soil sample S-3 22", which exhibited a BTEX concentration of 0.00322 mg/Kg which is below NMOCD regulatory guidelines. TPH concentrations ranged from less than the laboratory MDL for soil samples S-1 1', S-5 6", and S-7 1' to 17,531 mg/Kg for soil sample S-4 6". A review of laboratory analytical results indicated soil samples S-3 1' and S-4 6" exhibited TPH concentrations above NMOCD regulatory guidelines. Chloride concentrations ranged from less than the applicable laboratory MDL for soil samples S-2 6", S-2 1', S-5 6", S-5 1', S-6 6", S-6 1', S-7 6", and S-7 1' to 3,120 mg/Kg for soil sample S-4 6". A review of laboratory analytical results indicated soil samples S-4 6" and S-4 1' exhibited chloride concentrations above NMOCD regulatory guidelines. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chloride in Soil. Analytical reports are provided as Appendix A. Please refer to Figure 3 for the Site Details and Soil Sample Locations Map for soil sample locations.

In addition to the soil samples described above, nine (9) soil samples (NS-1 1', SS-1 1', NS-2 1', SS-2 1', WS-3 1', ES-3 1', NS-4 1', SS-4 1', and NS-5 1') were collected utilizing a hand auger approximately five (5) feet from the outer perimeter of the surface soil stained area and submitted for BTEX, TPH, and chloride analysis. The analytical results indicated benzene and BTEX concentrations were less than the applicable laboratory MDL and NMOCD regulatory guidelines. TPH concentrations were less than the applicable laboratory MDL for the submitted soil samples, with the exception of soil samples NS-1 1' (15 mg/Kg), NS-4 1' (303 mg/Kg), and N-5 1' (380.5 mg/Kg). TPH concentrations were below NMOCD regulatory guidelines for the submitted soil samples. Chloride concentrations ranged from less than the applicable laboratory analytical results indicated chloride concentrations were below NMOCD guidelines for the submitted soil sample ES-3 1' to 261 mg/Kg for soil sample SS-4 1'. A review of laboratory analytical results indicated chloride concentrations were below NMOCD guidelines for the submitted samples.

In addition, one background sample (BG-1 1') was collected utilizing a hand auger approximately fifty (50) feet north of the A-14 Compressor Station and submitted to the laboratory for TPH, BTEX, and chloride analysis. A review of laboratory analytical results indicated benzene, BTEX,

TPH, and chloride concentrations were less than laboratory applicable MDL. Please refer to Figure 2 for the Site Details and Soil Sample Location Map for the background soil sample location.

On May 2, 2017, a representative of ETC submitted the "Soil Investigation Summary and Proposed Remediation Workplan" (Workplan) for NMOCD consideration. The Workplan summarized remedial activities to date and detailed a closure strategy designed to progress the Release Site toward an NMOCD approved closure status. On May 16, 2017, ETC received written approval from the NMOCD to proceed with the activities outlined in the Workplan.

On May 23, 2017, TRC commenced excavation activities utilizing a hydro-vac in the vicinity of the A-14 Compressor Station below ground sump. One (1) soil sample (BH-1 @ 8") was collected from the floor of the excavated area. The soil sample was submitted to the laboratory and analyzed for concentrations of TPH, BTEX, and chloride. A review of laboratory analytical results indicated benzene and BTEX concentrations were less than laboratory MDL and NMOCD regulatory guidelines. Laboratory analytical results indicated the TPH concentrations was 506 mg/Kg and below NMOCD regulatory guidelines. Laboratory analytical results indicated the chloride concentration for the submitted sample was 8.06 mg/Kg and below NMOCD regulatory guidelines. Please refer to Figure 4 Site Details and Confirmation Soil Sample Location Map for soil sample locations.

In addition, one (1) composite soil sample (Hydrovac Solids) was collected from approximately twenty (20) cubic yards of hydro-excavated soil vacuumed from outside of the visibly impacted soil and submitted for BTEX, TPH, and chloride analysis. A review of the laboratory analytical results indicated benzene and BTEX concentrations were less than laboratory MDL and NMOCD regulatory guidelines. The TPH concentrations for the submitted soil sample was 452 mg/Kg and below NMOCD regulatory guidelines. The chloride concentration for the submitted soil sample was 52.5 mg/Kg and below NMOCD regulatory guidelines.

Based on the advancement of exploratory trenches utilizing a hydro-vac during delineation activities, it was determined the remainder of the impacted area could be excavated utilizing a backhoe to a maximum depth of approximately two (2) feet bgs.

On June 15, 2017, following additional excavation activities, three (3) soil samples (BH-6 6", BH-7 6", and BH-2 6") were collected from the floor of the excavated area and submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and BTEX concentrations for the submitted soil samples were less than laboratory MDL and NMOCD regulatory guidelines. TPH concentrations for the submitted soil samples ranged from less than the laboratory MDL for soil sample BH-2 6" to 231 mg/Kg for soil sample BH-7 6", which indicated the submitted soil samples were below NMOCD regulatory guidelines. A review of laboratory analytical results indicated chloride concentrations ranged from 5.85 mg/Kg for soil sample BH-7 6" to 32.4 mg/Kg for soil sample BH-2 6", which indicated chloride concentrations were below NMOCD regulatory guidelines.

On June 19 and 20, 2017, following additional excavation activities, ten (10) soil samples (BH-3 2', ESW-1 1', WSW-1 1', BH-5 6", BH-4 2', NSW-1 1', ESW-2 1', SSW-1 1', NSW-2 1', and WSW-2 1') were collected from the floor and side walls of the excavated area and submitted to the laboratory for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated benzene and BTEX concentrations for the submitted soil samples were less than

laboratory MDL and NMOCD regulatory guidelines. A review of laboratory analytical results indicated TPH concentrations were less than the applicable laboratory MDL for all submitted soil samples, with the exception of soil samples BH-3 2', ESW-1 1', and WSW-1 1', which exhibited TPH concentrations of 118 mg/Kg, 25.8 mg/Kg, and 321.2 mg/Kg, respectively, and remained below NMOCD regulatory guidelines. A review of laboratory analytical results indicate chloride concentrations for the submitted samples ranged from 9.95 mg/Kg for soil sample NSW-2 1' to 165 mg/Kg for soil sample WSW-1 1', which indicated TPH concentrations were below NMOCD regulatory guidelines.

On July 27, 2017, ETC submitted the Remediation Summary and Permission to Backfill Request for NMOCD and BLM approval. On August 7, 2017, ETC and TRC representatives met with a NMOCD representative to discuss remediation activities at the Release Site and received approval to backfill the excavated area. On September 8, 2017, BLM approved the "Remediation Summary and Permission to Backfill Request".

On September 20 through 22, 2017, TRC began transporting the excavated soil to Sundance Services, Inc. in Eunice, New Mexico. Approximately four hundred (400) cubic yards of excavated soil was transported to the NMOCD approved facility. The Sundance Disposal Manifests are provided as Appendix C.

On October 4, 2017, TRC commenced backfill activities at the Release Site. The excavation was backfilled with locally obtained caliche and topsoil and the impacted area was contoured to fit the surrounding topography.

SITE CLOSURE REQUEST

ETC requests NMOCD grant Site Closure Status to the A-14 Compressor Station (Below Ground Sump (1RP-4635) incident.

LIMITATIONS

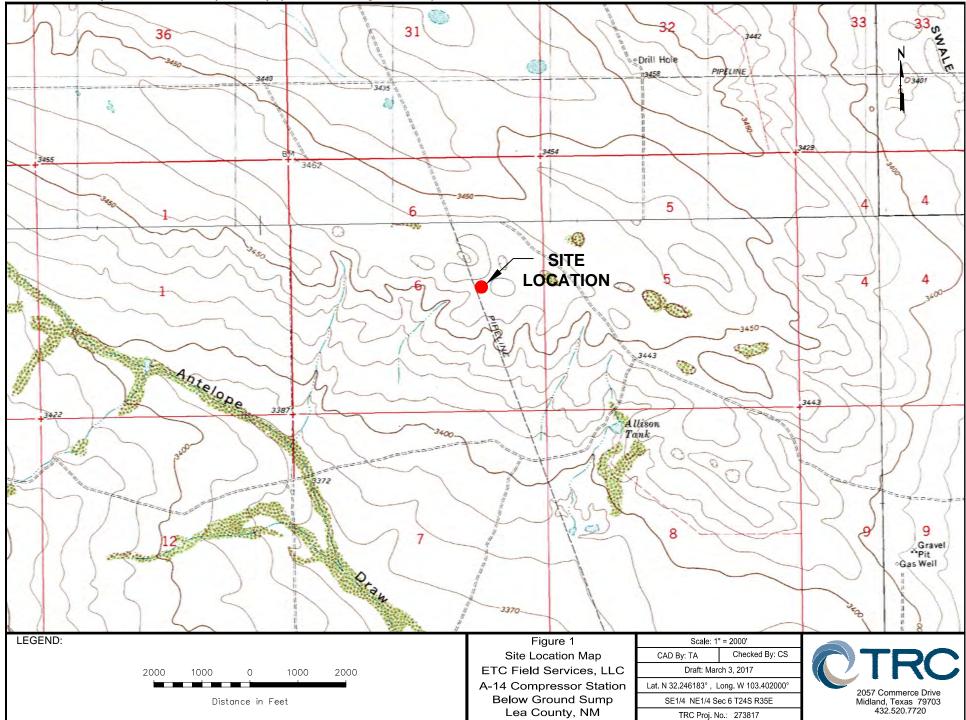
TRC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

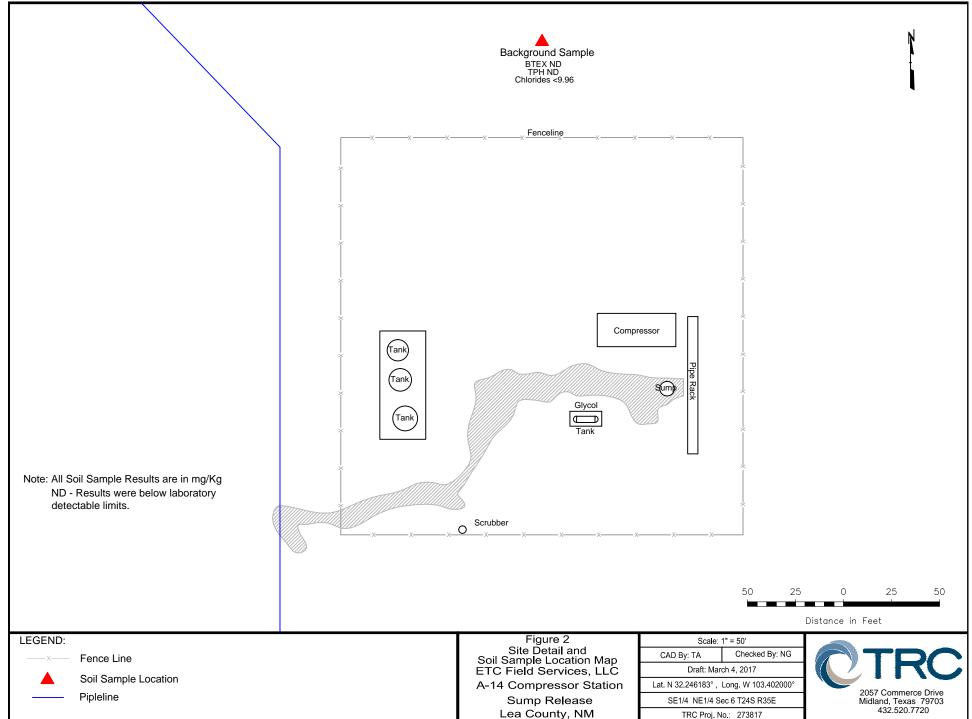
TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ETC Field Services, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ETC Field Services, LLC.

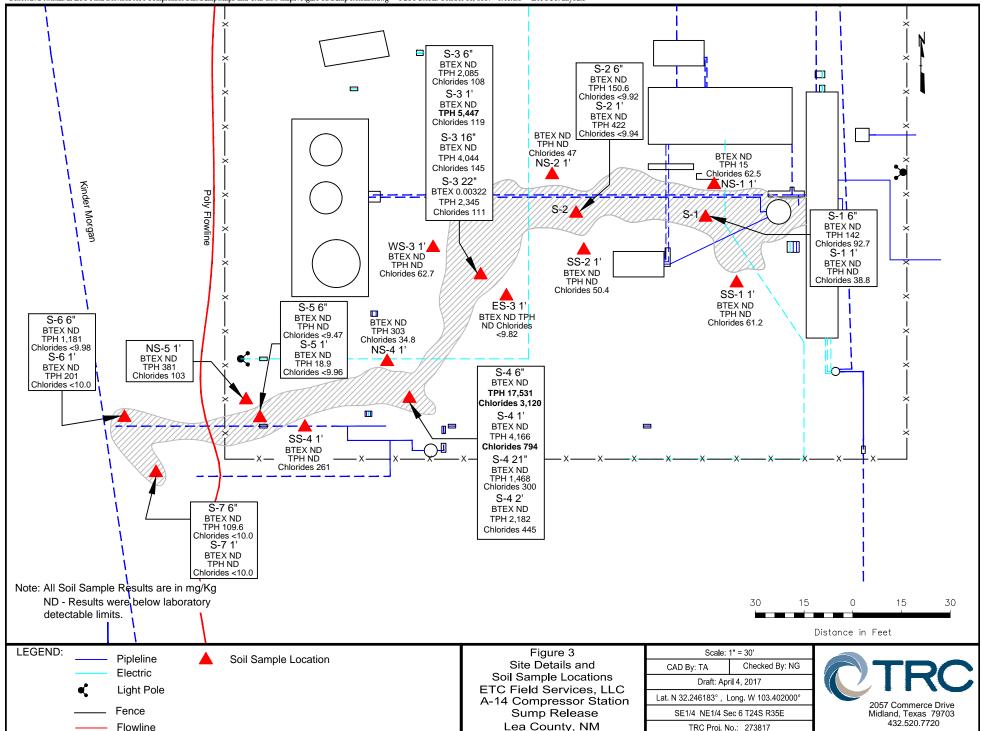
DISTRIBUTION

Copy 1:	Olivia Yu New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240
Copy 2:	Yolanda Jordan Jimenez Carlsbad Field Office United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220
Copy 3:	Rose Slade ETC Field Services, LLC 800 East Sonterra San Antonio, Texas 78258
Copy 4:	TRC Environmental Corporation 2057 Commerce Street Midland, Texas 79703





DRAWING NAME: Z:\ETC Field Services\A14 Compressor Stat Sump\Maps and CAD\new maps\ Figure 3a Sump Release.dwg --- PLOT DATE: October 18, 2017 - 9:40AM --- LAYOUT: Layout1



DRAWING NAME: Z:\ETC Field Services\A14 Compressor Stat Sump\Maps and CAD\new maps\ Figure 4 Below Ground Sump.dwg --- PLOT DATE: October 18, 2017 - 9:41AM --- LAYOUT: Layout1

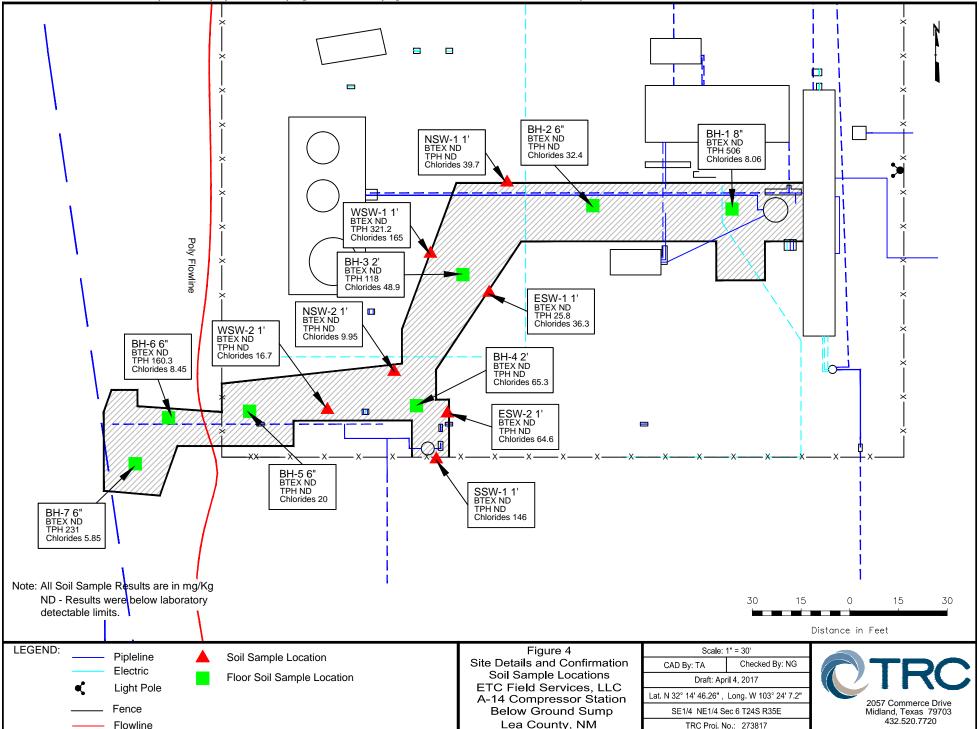


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC A-14 COMPRESSOR STATION BELOW GROUND SUMP LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

					METHODS:	SW 846-8021b				METHOD:	SW 8015M		E 300.1
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
NMOCD Site Classification Criteria			10					50				5,000	600
S-1 6"	03/22/17	Trench	< 0.00148	< 0.00198	< 0.00198	< 0.00198	< 0.00296	< 0.00296	<15.0	79.9	62.3	142.2	92.7
S-1 1'	03/22/17	Trench	< 0.00146	< 0.00194	< 0.00194	< 0.00194	< 0.00291	< 0.00291	<15.0	<15.0	<15.0	<15.0	38.8
S-2 6"	03/22/17	Trench	< 0.00146	< 0.00195	< 0.00195	< 0.00195	< 0.00292	< 0.00292	<15.0	80.5	70.1	150.6	<9.92
S-2 1'	03/22/17	Trench	< 0.00148	< 0.00197	< 0.00197	< 0.00197	< 0.00296	< 0.00296	<15.0	179	243	422	<9.94
S-3 6"	03/22/17	Trench	< 0.00147	< 0.00196	< 0.00196	< 0.00196	< 0.00294	< 0.00294	72.8	1,500	512	2,084.8	108
S-3 1'	03/22/17	Trench	< 0.00147	< 0.00196	< 0.00196	< 0.00196	< 0.00294	< 0.00294	445	4,030	972	5,447	119
S-3 16"	03/23/17	Trench	< 0.00148	< 0.00198	< 0.00198	< 0.00198	< 0.00296	< 0.00296	281	2,810	953	4,044	145
S-3 22"	03/23/17	Trench	< 0.00152	< 0.00202	< 0.00202	0.00322	< 0.00303	0.00322	296	1,820	229	2,345	111
S-4 6"	03/22/17	Trench	< 0.00146	< 0.00195	< 0.00195	< 0.00195	< 0.00293	< 0.00293	771	15,100	1,660	17,531	3,120
S-4 1'	03/22/17	Trench	< 0.00146	< 0.00195	< 0.00195	< 0.00195	< 0.00292	< 0.00292	84.2	3,630	452	4,166.2	794
S-4 21"	03/23/17	Trench	< 0.00149	< 0.00198	< 0.00198	< 0.00198	< 0.00298	< 0.00298	18.0	1,290	160	1,468.0	300
S-4 2'	03/23/17	Trench	< 0.00150	< 0.00200	< 0.00200	< 0.00200	< 0.00301	< 0.00301	25.4	1,930	227	2,182.4	445
S-5 6"	03/23/17	Trench	< 0.00149	< 0.00199	< 0.00199	< 0.00199	< 0.00298	< 0.00298	<15.0	<15.0	<15.0	<15.0	<9.47
S-5 1'	03/22/17	Trench	< 0.00147	< 0.00196	< 0.00196	< 0.00196	< 0.00295	< 0.00295	<15.0	18.9	<15.0	18.9	<9.96
S-6 6"	03/23/17	Trench	< 0.00146	< 0.00195	< 0.00195	< 0.00195	< 0.00292	< 0.00292	<14.9	889	292	1,181	<9.98
S-6 1'	03/23/17	Trench	< 0.00148	< 0.00198	< 0.00198	< 0.00198	< 0.00296	< 0.00296	<15.0	120	81.0	201.0	<10.0
S-7 6"	03/23/17	Trench	< 0.00149	< 0.00199	< 0.00199	< 0.00199	< 0.00298	< 0.00298	<15.0	59.0	50.6	109.6	<10.0
S-7 1'	03/23/17	Trench	< 0.00148	< 0.00197	< 0.00197	< 0.00197	< 0.00296	< 0.00296	<15.0	<15.0	<15.0	<15.0	<10.0
NS-1 1'	03/23/17	Trench	< 0.00147	< 0.00196	< 0.00196	< 0.00196	< 0.00295	< 0.00295	<15.0	<15.0	15.0	15.0	62.5
SS-1 1'	03/23/17	Trench	< 0.00147	< 0.00196	< 0.00196	< 0.00196	< 0.00294	< 0.00294	<15.0	<15.0	<15.0	<15.0	61.2
NS-2 1'	03/23/17	Trench	< 0.00149	< 0.00199	< 0.00199	< 0.00199	< 0.00298	< 0.00298	<15.0	<15.0	<15.0	<15.0	47.0
SS-2 1'	03/23/17	Trench	< 0.00151	< 0.00201	< 0.00201	< 0.00201	< 0.00301	< 0.00301	<15.0	<15.0	<15.0	<15.0	50.4

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC A-14 COMPRESSOR STATION BELOW GROUND SUMP LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

					METHODS:	SW 846-8021b				METHOD:	SW 8015M		E 300.1
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
NMOCD Site Classification Criteria			10					50				5,000	600
WS-3 1'	03/23/17	Trench	< 0.00150	< 0.00200	< 0.00200	< 0.00200	< 0.00301	< 0.00301	<15.0	<15.0	<15.0	<15.0	62.7
ES-3 1'	03/23/17	Trench	< 0.00148	< 0.00197	< 0.00197	< 0.00197	< 0.00296	< 0.00296	<15.0	<15.0	<15.0	<15.0	<9.82
NS-4 1'	03/23/17	Trench	< 0.00255	< 0.00340	< 0.00340	< 0.00340	< 0.00510	< 0.00510	<15.0	258	45.0	303.0	34.8
SS-4 1'	03/23/17	Trench	< 0.00148	< 0.00198	< 0.00198	< 0.00198	< 0.00296	< 0.00296	<15.0	<15.0	<15.0	<15.0	261
NS-5 1'	03/23/17	Trench	< 0.00150	< 0.00200	< 0.00200	< 0.00200	< 0.00301	< 0.00301	<15.0	351	29.5	380.5	103
BG-1 1'	03/23/17	Trench	< 0.00151	< 0.00201	< 0.00201	< 0.00301	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	<9.96
BH-1 @ 8"	05/23/17	In-Situ	<0.00353	< 0.00353	< 0.00353	<0.00707	< 0.00353	<0.00707	<15.0	203	303	506	8.06
BH-6 6"	06/15/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<15.0	97.1	63.2	160.3	8.45
BH-7 6"	06/15/17	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00200	< 0.00399	<15.0	109	122	231	5.85
BH-2 6"	06/15/17	In-Situ	< 0.00198	< 0.00198	< 0.00198	< 0.00397	<0.00198	< 0.00397	<15.0	<15.0	<15.0	<15.0	32.4
BH-3 2'	06/19/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<15.0	53.3	64.7	118	48.9
ESW-1 1'	06/19/17	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00200	< 0.00399	<15.0	25.8	<15.0	25.8	36.3
WSW-1 1'	06/19/17	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00400	< 0.00200	< 0.00400	<15.0	255	66.2	321.2	165.0
BH-5 6"	06/19/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<14.9	<14.9	<14.9	<14.9	20.0
BH-4 2'	06/20/17	In-Situ	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00199	< 0.00398	<15.0	<15.0	<15.0	<15.0	65.3
NSW-1 1'	06/20/17	In-Situ	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00199	< 0.00398	<15.0	<15.0	<15.0	<15.0	39.7
ESW-2 1'	06/20/17	In-Situ	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00199	< 0.00398	<15.0	<15.0	<15.0	<15.0	64.6
SSW-1 1'	06/20/17	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00200	< 0.00399	<15.0	<15.0	<15.0	<15.0	146
NSW-2 1'	06/20/17	In-Situ	< 0.00202	< 0.00202	< 0.00202	< 0.00403	< 0.00202	< 0.00403	<15.0	<15.0	<15.0	<15.0	9.95

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

ETC FIELD SERVICES, LLC A-14 COMPRESSOR STATION BELOW GROUND SUMP LEA COUNTY, NEW MEXICO

						ntrations are rep SW 846-8021b	0 0			METHOD:	SW 8015M		E 300.1
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL-	m, p - XYLENES	0 -	TOTAL BTEX	TPH GRO C ₆ -C ₁₂		TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
NMOCD Site Classification Criteria			10					50				5,000	600
WSW-2 1'	06/20/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<15.0	<15.0	<15.0	<15.0	16.7
Hydrovac Solids	05/23/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<15.0	187	265	452	52.5

All concentrations are reported in mg/Kg

Analytical Report 549416

for TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Sump

TRC# 273818

05-APR-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



05-APR-17



Project Manager: **Nikki Green TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 549416 A14 Compressor Station Sump Project Address: Lea County, NM

Nikki Green:

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) 549416. 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. 549416 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 549416



TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 6"	S	03-22-17 13:00	- 6 In	549416-001
S-1 1'	S	03-22-17 13:05	- 1 ft	549416-002
S-2 6"	S	03-22-17 13:15	- 6 In	549416-003
S-2 1'	S	03-22-17 13:20	- 1 ft	549416-004
S-3 6"	S	03-22-17 13:35	- 6 In	549416-005
S-3 1'	S	03-22-17 13:40	- 1 ft	549416-006
S-4 6"	S	03-22-17 15:30	- 6 In	549416-007
S-4 1'	S	03-22-17 15:35	- 1 ft	549416-008
S-5 1'	S	03-22-17 15:55	- 1 ft	549416-009
S-6 6"	S	03-23-17 09:30	- 6 In	549416-010
S-6 1'	S	03-23-17 09:45	- 1 ft	549416-011
S-7 6"	S	03-23-17 09:50	- 6 In	549416-012
S-7 1'	S	03-23-17 10:05	- 1 ft	549416-013
NS-1 1'	S	03-23-17 10:10	- 1 ft	549416-014
SS-1 1'	S	03-23-17 10:20	- 1 ft	549416-015
NS-2 1'	S	03-23-17 11:00	- 1 ft	549416-016
SS-2 1'	S	03-23-17 11:15	- 1 ft	549416-017
S-3 16"	S	03-23-17 11:20	- 16 In	549416-018
S-3 22"	S	03-23-17 11:28	- 22 In	549416-019
WS-3 1'	S	03-23-17 11:39	- 1 ft	549416-020
ES-3 1'	S	03-23-17 11:42	- 1 ft	549416-021
S-4 21"	S	03-23-17 11:45	- 1 ft	549416-022
S-4 2'	S	03-23-17 11:50	- 2 ft	549416-023
NS-4 1'	S	03-23-17 13:00	- 1 ft	549416-024
SS-4 1'	S	03-23-17 13:10	- 1 ft	549416-025
NS-5 1'	S	03-23-17 13:20	- 1 ft	549416-026
S-5 6"	S	03-22-17 15:50	- 6 In	549416-027



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A14 Compressor Station Sump

 Project ID:
 TRC# 273818

 Work Order Number(s):
 549416

Report Date:05-APR-17Date Received:03/24/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3013449 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013451 BTEX by EPA 8021B

Lab Sample ID 549416-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). 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: 549416-002, -003, -004, -010. The Laboratory Control Sample for m_p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013527 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3013589 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 549416-026 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). 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: 549416-025, -026, -027. The Laboratory Control Sample for m_p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3013602 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 549416

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab: Fri Mar-24-17 02:55 pm Report Date: 05-APR-17 Project Manager: Kelsey Brooks

	Lab Id:	549416-	001	549416-0	002	549416-	003	549416-	004	549416-	005	549416-	006
	Field Id:	S-1 6		S-1 1		S-2 6	,	S-2 1		S-3 6		S-3 1	
Analysis Requested	Depth:	6 In		1 ft		6 In		1 ft		6 In		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	,	SOIL	
	Sampled:	Mar-22-17	13:00	Mar-22-17	13:05	Mar-22-17	13:15	Mar-22-17	13:20	Mar-22-17	13:35	Mar-22-17	13:40
BTEX by EPA 8021B	Extracted:	Mar-27-17	08:00	Mar-27-17	16:40	Mar-27-17	16:40	Mar-27-17	16:40	Mar-28-17	08:00	Mar-28-17	08:00
	Analyzed:	Mar-27-17	08:55	Mar-27-17	21:58	Mar-27-17	22:14	Mar-28-17	01:13	Mar-28-17	09:29	Mar-28-17	09:46
	Units/RL:	mg/kg	RL										
Benzene		ND	0.00148	ND	0.00146	ND	0.00146	ND	0.00148	ND	0.00147	ND	0.00147
Toluene		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
Ethylbenzene		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
m_p-Xylenes		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
o-Xylene		ND	0.00296	ND	0.00291	ND	0.00292	ND	0.00296	ND	0.00294	ND	0.00294
Total Xylenes		ND	0.00198	ND	0.00194	ND	0.00195	ND	0.00197	ND	0.00196	ND	0.00196
Total BTEX		ND	0.00148	ND	0.00146	ND	0.00146	ND	0.00148	ND	0.00147	ND	0.00147
Chloride by EPA 300	Extracted:	Apr-01-17	12:04										
SUB: TX104704215	Analyzed:	Apr-01-17	22:01	Apr-01-17	22:10	Apr-01-17	22:38	Apr-01-17	22:47	Apr-01-17	23:15	Apr-01-17	23:25
	Units/RL:	mg/kg	RL										
Chloride		92.7	9.69	38.8	9.88	ND	9.92	ND	9.94	108	9.98	119	10.0
TPH By SW8015 Mod	Extracted:	Mar-24-17	16:00										
	Analyzed:	Mar-25-17	00:20	Mar-25-17	01:37	Mar-25-17	02:02	Mar-25-17	02:29	Mar-25-17	02:57	Mar-25-17	03:24
	Units/RL:	mg/kg	RL										
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	ND	15.0	72.8	15.0	445	74.9
C10-C28 Diesel Range Organics		79.9	15.0	ND	15.0	80.5	15.0	179	15.0	1500	15.0	4030	74.9
C28-C35 Oil Range Hydrocarbons		62.3	15.0	ND	15.0	70.1	15.0	243	15.0	512	15.0	972	74.9
Total TPH		142	15.0	ND	15.0	151	15.0	422	15.0	2080	15.0	5450	74.9

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Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 549416

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab: Fri Mar-24-17 02:55 pm Report Date: 05-APR-17 Project Manager: Kelsey Brooks

	Lab Id:	549416-(007	549416-0	2018	549416-0	000	549416-010		549416-011		549416-0	012
						S-5 1		S-6.6					
Analysis Requested	Field Id:	S-4 6"		S-4 1		S-5 1 1 ft		5-6.6		S-6 1		S-7 6	
<i>1</i>	Depth:	6 In		1 ft	1 ft			6 In		1 ft		6 In	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	Mar-22-17	15:30	Mar-22-17	15:35	Mar-22-17	15:55	Mar-23-17	09:30	Mar-23-17	09:45	Mar-23-17	09:50
BTEX by EPA 8021B	Extracted:	Mar-28-17	08:00	Mar-28-17 08:00		Mar-28-17	08:00	Mar-27-17	16:40	Mar-28-17	08:00	Mar-28-17	08:00
	Analyzed:	Mar-28-17	10:02	Mar-28-17	10:19	Mar-28-17	10:35	Mar-28-17	06:14	Mar-28-17	10:51	Mar-28-17	11:08
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00146	ND	0.00146	ND	0.00147	ND	0.00146	ND	0.00148	ND	0.00149
Toluene		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
Ethylbenzene		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
m_p-Xylenes		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
o-Xylene		ND	0.00293	ND	0.00292	ND	0.00295	ND	0.00292	ND	0.00296	ND	0.00298
Total Xylenes		ND	0.00195	ND	0.00195	ND	0.00196	ND	0.00195	ND	0.00198	ND	0.00199
Total BTEX		ND	0.00146	ND	0.00146	ND	0.00147	ND	0.00146	ND	0.00148	ND	0.00149
Chloride by EPA 300	Extracted:	Apr-01-17	12:04	Apr-01-17	12:04	Apr-01-17	12:04	Apr-01-17	12:04	Apr-01-17	12:04	Apr-03-17	18:00
SUB: TX104704215	Analyzed:	Apr-01-17	23:34	Apr-01-17	23:44	Apr-01-17 23:53		Apr-02-17 00:02		Apr-02-17 00:12		Apr-03-17 23:	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3120 D	98.8	794	9.82	ND	9.96	ND	9.98	ND	10.0	ND	10.0
TPH By SW8015 Mod	Extracted:	Mar-24-17	16:00	Mar-24-17	16:00	Mar-24-17	16:00	Mar-24-17	16:00	Mar-24-17	16:00	Mar-24-17	16:00
	Analyzed:	Mar-25-17	03:50	Mar-26-17	06:11	Mar-25-17	04:43	Mar-26-17	06:31	Mar-25-17	12:48	Mar-25-17	13:10
	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		771	74.9	84.2	14.9	ND	15.0	ND	14.9	ND	15.0	ND	15.0
C10-C28 Diesel Range Organics		15100	15100 74.9		14.9	18.9	15.0	889	14.9	120	15.0	59.0	15.0
C28-C35 Oil Range Hydrocarbons		1660	1660 74.9		14.9	ND	15.0	292	14.9	81.0	15.0	50.6	15.0
Total TPH		17500	74.9	4170	14.9	18.9	15.0	1180	14.9	201	15.0	110	15.0

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Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 549416

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab: Fri Mar-24-17 02:55 pm Report Date: 05-APR-17 Project Manager: Kelsey Brooks

T_L T													
	Lab Id:	549416-0	013	549416-0	014	549416-0	015	549416-	016	549416-0	017	549416-	018
Analysis Requested	Field Id:	S-7 1		NS-1 1	'	SS-1 1	'	NS-2	1'	SS-2 1	'	S-3 16	5"
Analysis Requested	Depth:	1 ft		16 In	ı								
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOIL	-
	Sampled:	Mar-23-17	10:05	Mar-23-17	10:10	Mar-23-17	10:20	Mar-23-17	11:00	Mar-23-17	11:15	Mar-23-17	11:20
BTEX by EPA 8021B	Extracted:	Mar-28-17	08:00										
	Analyzed:	Mar-28-17	09:14	Mar-28-17	11:23	Mar-28-17	11:40	Mar-28-17	13:35	Mar-28-17	13:52	Mar-28-17	14:08
	Units/RL:	mg/kg	RL										
Benzene		ND	0.00148	ND	0.00147	ND	0.00147	ND	0.00149	ND	0.00151	ND	0.00148
Toluene		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
Ethylbenzene		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
m_p-Xylenes		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
o-Xylene		ND	0.00296	ND	0.00295	ND	0.00294	ND	0.00298	ND	0.00301	ND	0.00296
Total Xylenes		ND	0.00197	ND	0.00196	ND	0.00196	ND	0.00199	ND	0.00201	ND	0.00198
Total BTEX		ND	0.00148	ND	0.00147	ND	0.00147	ND	0.00149	ND	0.00151	ND	0.00148
Chloride by EPA 300	Extracted:	Apr-03-17	18:00	Apr-01-17	13:54								
SUB: TX104704215	Analyzed:	Apr-03-17	23:33	Apr-02-17	02:13	Apr-02-17	02:41	Apr-02-17	02:51	Apr-02-17	03:00	Apr-02-17	03:09
	Units/RL:	mg/kg	RL										
Chloride		ND	10.0	62.5	9.98	61.2	9.88	47.0	9.84	50.4	9.98	145	10.0
TPH By SW8015 Mod	Extracted:	Mar-24-17	16:00										
	Analyzed:	Mar-26-17	06:50	Mar-25-17	13:52	Mar-25-17	14:13	Mar-25-17	14:33	Mar-25-17	14:54	Mar-25-17	15:14
	Units/RL:	mg/kg	RL										
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	281	74.7								
C10-C28 Diesel Range Organics		ND 15.0		ND	15.0	ND	15.0	ND	15.0	ND	15.0	2810	74.7
C28-C35 Oil Range Hydrocarbons		ND	ND 15.0		15.0	ND	15.0	ND	15.0	ND	15.0	953	74.7
Total TPH		ND 15.0		15.0	15.0	ND	15.0	ND	15.0	ND	15.0	4040	74.7

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Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 549416

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab: Fri Mar-24-17 02:55 pm Report Date: 05-APR-17 Project Manager: Kelsey Brooks

	Lab Id:	549416-	019	549416-0	20	549416-0	021	549416-	022	549416-023		549416-0	024
	Field Id:	S-3 22	."	WS-3 1	'	ES-3 1	'	S-4 21	"	S-4 2	,	NS-4	1'
Analysis Requested	Depth:	22 In		1 ft		1 ft		1 ft		2 ft		1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	,
	Sampled:	Mar-23-17	11:28	Mar-23-17	11:39	Mar-23-17	11:42	Mar-23-17	11:45	Mar-23-17	11:50	Mar-23-17	13:00
BTEX by EPA 8021B	Extracted:	Mar-28-17	08:00	Mar-28-17 08:00		Mar-28-17	08:00	Mar-28-17	08:00	Mar-28-17	08:00	Mar-28-17	16:50
	Analyzed:	Mar-28-17	14:25	Mar-28-17	14:41	Mar-28-17	14:57	Mar-28-17	15:21	Mar-28-17	15:37	Mar-29-17	07:08
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00152	ND	0.00150	ND	0.00148	ND	0.00149	ND	0.00150	ND	0.00255
Toluene		ND	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
Ethylbenzene		ND	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
m_p-Xylenes		0.00322	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
o-Xylene		ND	0.00303	ND	0.00301	ND	0.00296	ND	0.00298	ND	0.00301	ND	0.00510
Total Xylenes		0.00322	0.00202	ND	0.00200	ND	0.00197	ND	0.00198	ND	0.00200	ND	0.00340
Total BTEX		0.00322	0.00152	ND	0.00150	ND	0.00148	ND	0.00149	ND	0.00150	ND	0.00255
Chloride by EPA 300	Extracted:	Apr-01-17	13:54	Apr-01-17 1	13:54	Apr-01-17	13:54	Apr-01-17	13:54	Apr-01-17	13:54	Apr-01-17	13:54
SUB: TX104704215	Analyzed:	Apr-02-17	03:37	Apr-02-17 (03:47	Apr-02-17	03:56	Apr-02-17	04:05	Apr-02-17	04:15	Apr-02-17	04:24
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		111	9.62	62.7	9.65	ND	9.82	300	9.73	445	9.98	34.8	9.88
TPH By SW8015 Mod	Extracted:	Mar-24-17	16:00	Mar-24-17	16:00	Mar-24-17	17:00	Mar-24-17	17:00	Mar-24-17	17:00	Mar-24-17	17:00
	Analyzed:	Mar-25-17	15:35	Mar-25-17	15:57	Mar-26-17	03:23	Mar-26-17	03:43	Mar-27-17	06:44	Mar-26-17	04:27
	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		296	74.7	ND	15.0	ND	15.0	18.0	15.0	25.4	15.0	ND	15.0
C10-C28 Diesel Range Organics		1820	1820 74.7		15.0	ND	15.0	1290	15.0	1930	15.0	258	15.0
C28-C35 Oil Range Hydrocarbons		229	229 74.7		15.0	ND	15.0	160	15.0	227	15.0	45.0	15.0
Total TPH		2350	74.7	ND	15.0	ND	15.0	1470	15.0	2180	15.0	303	15.0

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Huns Boah

Kelsey Brooks Project Manager



Certificate of Analysis Summary 549416

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab:Fri Mar-24-17 02:55 pmReport Date:05-APR-17Project Manager:Kelsey Brooks

Lab		549416-	025	549416-0)26	549416-0)27		
	Field Id:	SS-4 1		NS-5 1		S-5 6'			
Analysis Requested					L				
	Depth:	1 ft		1 ft		6 In			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Mar-23-17	13:10	Mar-23-17	13:20	Mar-22-17	15:50		
BTEX by EPA 8021B	Extracted:	Mar-28-17 15:30		Mar-28-17	15:30	Mar-28-17	15:30		
	Analyzed:	Mar-28-17	23:47	Mar-28-17	18:05	Mar-28-17	18:22		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.00148	ND	0.00150	ND	0.00149		
luene		ND	0.00198	ND	0.00200	ND	0.00199		
ylbenzene		ND	0.00198	ND	0.00200	ND	0.00199		
m_p-Xylenes		ND	0.00198	ND	0.00200	ND	0.00199		
o-Xylene		ND	0.00296	ND	0.00301	ND	0.00298		
Total Xylenes		ND	0.00198	ND	0.00200	ND	0.00199		
Total BTEX		ND	0.00148	ND	0.00150	ND	0.00149		
Chloride by EPA 300	Extracted:	Apr-01-17	13:54	Apr-01-17	13:54	Apr-01-17	13:54		
SUB: TX104704215	Analyzed:	Apr-02-17	04:52	Apr-02-17	05:01	Apr-02-17 05:29			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		261	9.65	103	9.58	ND	9.47		
TPH By SW8015 Mod	Extracted:	Mar-24-17	17:00	Mar-24-17	17:00	Mar-24-17	17:00		
	Analyzed:	Mar-26-17	04:47	Mar-26-17	05:07	Mar-26-17	05:29		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons	*	ND	15.0	ND	15.0	ND	15.0		
C10-C28 Diesel Range Organics		ND	15.0	351	15.0	ND	15.0		
C28-C35 Oil Range Hydrocarbons		ND	15.0	29.5	15.0	ND	15.0		
Total TPH		ND	15.0	381	15.0	ND	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Huns Boah

Kelsey Brooks Project Manager



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
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: A14 Compressor Station Sump

Lab Batch #:		Sample: 549416-001 / SMP	Bate				
Units:	mg/kg	Date Analyzed: 03/25/17 00:20	SU	JRROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	;		93.2	99.9	93	70-135	
o-Terphenyl			48.0	50.0	96	70-135	
Lab Batch #:	3013499	Sample: 549416-002 / SMP	Bate	h: 1 Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 03/25/17 01:37	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		Analy US	92.5	99.8	93	70-135	
o-Terphenyl			47.0	49.9	94	70-135	
Lab Batch #:	3013499	Sample: 549416-003 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 02:02	SURROGATE RECOVERY STUDY				
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	,		103	99.7	103	70-135	
o-Terphenyl			51.4	49.9	103	70-135	
Lab Batch #:	3013499	Sample: 549416-004 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 02:29	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			100	100	100	70-135	
o-Terphenyl			50.6	50.0	101	70-135	
Lab Batch #:	3013499	Sample: 549416-005 / SMP	Bate				
Units:	mg/kg	Date Analyzed: 03/25/17 02:57	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
r		Analytes			[D]		
1-Chlorooctane			90.1	99.8	90	70-135	
o-Terphenyl			45.3	49.9	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:		Sample: 549416-006 / SMP	Bate				
Units:	mg/kg	Date Analyzed: 03/25/17 03:24	SU	JRROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		99.2	99.8	99	70-135	
o-Terphenyl			51.2	49.9	103	70-135	
Lab Batch #:	3013499	Sample: 549416-007 / SMP	Bate	h: 1 Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 03/25/17 03:50	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		Analy C.S	98.5	99.8	99	70-135	
o-Terphenyl			45.8	49.9	92	70-135	
Lab Batch #:	3013499	Sample: 549416-009 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 04:43	SURROGATE RECOVERY STUDY				
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		94.6	99.7	95	70-135	
o-Terphenyl			48.2	49.9	97	70-135	
Lab Batch #:	3013499	Sample: 549416-011 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 12:48	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			96.7	99.9	97	70-135	
o-Terphenyl			49.7	50.0	99	70-135	
Lab Batch #:	3013499	Sample: 549416-012 / SMP	Bato				
Units:	mg/kg	Date Analyzed: 03/25/17 13:10	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		91.3	99.8	91	70-135	
o-Terphenyl			46.9	49.9	94	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:	3013499	Sample: 549416-014 / SMP	Batc	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/25/17 13:52	SU	RROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane	•		105	99.7	105	70-135	
o-Terphenyl			53.1	49.9	106	70-135	
Lab Batch #:	3013499	Sample: 549416-015 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 14:13	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		Anaryus	102	99.9	102	70-135	
o-Terphenyl			51.8	50.0	104	70-135	
Lab Batch #:	3013499	Sample: 549416-016 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 14:33	st	JRROGATE R	ECOVERY S	STUDY	
TPH By SW8015 Mod			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
	Analytes				[D]		
1-Chlorooctane	•		88.8	99.8	89	70-135	
o-Terphenyl			45.5	49.9	91	70-135	
Lab Batch #:	3013499	Sample: 549416-017 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/25/17 14:54	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			88.1	99.8	88	70-135	
o-Terphenyl			44.8	49.9	90	70-135	
Lab Batch #:	3013499	Sample: 549416-018 / SMP	Batc				<u> </u>
Units:	mg/kg	Date Analyzed: 03/25/17 15:14	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chlorooctane	•		91.7	99.6	92	70-135	
o-Terphenyl			45.5	49.8	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:		Sample: 549416-019 / SMP	Batc						
Units:	mg/kg	Date Analyzed: 03/25/17 15:35	SU	RROGATE R	ECOVERY S	STUDY			
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1-Chlorooctane			91.7	99.6	92	70-135			
o-Terphenyl			46.2	49.8	93	70-135			
Lab Batch #:	3013499	Sample: 549416-020 / SMP	Batc	h: 1 Matrix	: Soil	·			
Units:	mg/kg	Date Analyzed: 03/25/17 15:57	SURROGATE RECOVERY STUDY						
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		Anaryus	98.1	99.7	98	70-135			
o-Terphenyl			49.7	49.9	100	70-135			
Lab Batch #:	3013501	Sample: 549416-021 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/26/17 03:23	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1-Chlorooctane			89.4	99.8	90	70-135			
o-Terphenyl			46.2	49.9	93	70-135			
Lab Batch #:	3013501	Sample: 549416-022 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/26/17 03:43	SU	RROGATE R	ECOVERY S	STUDY			
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane			96.9	99.7	97	70-135			
o-Terphenyl			40.5	49.9	81	70-135			
Lab Batch #:	3013501	Sample: 549416-024 / SMP	Batc						
Units:	mg/kg	Date Analyzed: 03/26/17 04:27	st	RROGATE R	ECOVERY S	STUDY			
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag		
1 (11)		Analytes			[D]	-			
1-Chlorooctane o-Terphenyl			85.8	99.9	86	70-135			
			44.0	50.0	88	70-135			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:	3013501	Sample: 549416-025 / SMP	Batc	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/26/17 04:47	SU	JRROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane	e		89.3	100	89	70-135	
o-Terphenyl			46.1	50.0	92	70-135	
Lab Batch #:	3013501	Sample: 549416-026 / SMP	Batc	h: 1 Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 03/26/17 05:07	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		Analytes	92.7	99.8	93	70-135	
o-Terphenyl			44.0	49.9	88	70-135	
Lab Batch #:	3013501	Sample: 549416-027 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/26/17 05:29	Analyzed: 03/26/17 05:29 SURROGATE RECOVERY STUDY				
	TPH E	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane	e		85.0	99.8	85	70-135	
o-Terphenyl			43.0	49.9	86	70-135	
Lab Batch #:	3013499	Sample: 549416-008 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/26/17 06:11	SU	JRROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		marytes	96.4	99.6	97	70-135	
o-Terphenyl			40.0	49.8	80	70-135	
Lab Batch #:	3013499	Sample: 549416-010 / SMP	Batc				
Units:	mg/kg	Date Analyzed: 03/26/17 06:31	st	JRROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chlorooctane	e		94.2	99.6	95	70-135	
o-Terphenyl			42.9	49.8	86	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

T		Data Amalanada 02/26/17 06 50			_ ~ ~ ~ ~ ~ ~ ~				
Units:	mg/kg	Date Analyzed: 03/26/17 06:50	SU	JRROGATE R	ECOVERY S	STUDY			
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooctane	•		102	100	102	70-135			
o-Terphenyl			51.8	50.0	104	70-135			
Lab Batch #:	3013501	Sample: 549416-023 / SMP	Bate	h: 1 Matrix	: Soil	11			
Units:	mg/kg	Date Analyzed: 03/27/17 06:44	SURROGATE RECOVERY STUDY						
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1 Chloropatana		Analytes	101	00.7		70.125			
1-Chlorooctane			101	99.7	101	70-135			
o-Terphenyl Lab Batch #:	2012440	Sample: 549416-001 / SMP	43.2 Bate	49.9 2h: 1 Matrix	87	70-135			
		-							
Units:	mg/kg	Date Analyzed: 03/27/17 08:55	SU	JRROGATE R	ECOVERY S	STUDY			
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorobe	nzene		0.0324	0.0300	108	80-120			
4-Bromofluoro	benzene		0.0297	0.0300	99	80-120			
Lab Batch #:	3013451	Sample: 549416-002 / SMP	Bate	ch: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/27/17 21:58	SU	URROGATE R	ECOVERY S	STUDY			
		T by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.4-Difluorobe		Analytes	0.0240	0.0200		00.120			
4-Bromofluoro			0.0349	0.0300	99	80-120			
Lab Batch #:		Sample: 549416-003 / SMP	0.0296 Bate			80-120			
Units:	mg/kg	Date Analyzed: 03/27/17 22:14		JRROGATE R		STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage			
		Analytes			[D]				
1,4-Difluorobe	nzene		0.0338	0.0300	113	80-120			
4-Bromofluoro	hanzana		0.0342	0.0300	114	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

T T \$4		Deta Ameli-1: 02/20/17 01 12							
Units:	mg/kg	Date Analyzed: 03/28/17 01:13	SU	JRROGATE R	ECOVERY S	STUDY			
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluoro	benzene		0.0332	0.0300	111	80-120			
4-Bromoflue	orobenzene		0.0280	0.0300	93	80-120			
Lab Batch	#: 3013451	Sample: 549416-010 / SMP	Batch: 1 Matrix: Soil						
Units:	mg/kg	Date Analyzed: 03/28/17 06:14	SURROGATE RECOVERY STUDY						
		A by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro		Anarytes	0.0251	0.0300	84	80-120			
4-Bromoflue			0.0287	0.0300	96	80-120			
	#: 3013527	Sample: 549416-013 / SMP	Batc			00 120			
Units:	mg/kg	Date Analyzed: 03/28/17 09:14		JRROGATE R		STUDY			
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluoro	benzene		0.0316	0.0300	105	80-120			
4-Bromoflue			0.0296	0.0300	99	80-120			
Lab Batch	#: 3013527	Sample: 549416-005 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/28/17 09:29	SU	JRROGATE R	ECOVERY S	STUDY			
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.4-Difluoro			0.0321	0.0300	107	80-120			
4-Bromoflue			0.0267	0.0300	89	80-120			
	#: 3013527	Sample: 549416-006 / SMP	Batc						
Units:	mg/kg	Date Analyzed: 03/28/17 09:46		JRROGATE R		STUDY			
BTEX by EPA 8021B		•	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluoro			0.0286	0.0300	95	80-120			
4-Bromofluorobenzene			0.0256	0.0300	85	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

T	/l.	Data Amalumada 02/20/17 10.02			_ ~ ~ ~ ~ ~ ~				
Units:	mg/kg	Date Analyzed: 03/28/17 10:02	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluoro	benzene		0.0354	0.0300	118	80-120			
4-Bromofluc	orobenzene		0.0247	0.0300	82	80-120			
Lab Batch	#: 3013527	Sample: 549416-008 / SMP							
Units:	mg/kg	Date Analyzed: 03/28/17 10:19	SURROGATE RECOVERY STUDY						
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage		
1 4 D'flag ar		Analytes	0.0220	0.0200		00.120			
1,4-Difluoro			0.0328	0.0300	109	80-120			
4-Bromofluc	#: 3013527	Secondar 540416 000 / SMD	0.0267	0.0300 h: 1 Matrix	89 89	80-120			
		Sample: 549416-009 / SMP	Batcl						
Units:	mg/kg	Date Analyzed: 03/28/17 10:35	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluoro	benzene		0.0327	0.0300	109	80-120			
4-Bromofluc	orobenzene		0.0271	0.0300	90	80-120			
Lab Batch	#: 3013527	Sample: 549416-011 / SMP	Batcl	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/28/17 10:51	SU	RROGATE R	ECOVERY S	STUDY			
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
140.0		Analytes	0.0222	0.0200		00.100			
1,4-Difluoro			0.0323	0.0300	108	80-120			
4-Bromofluc	#: 3013527	Sample: 549416-012 / SMP	0.0323 Batcl	0.0300 h: 1 Matrix	108	80-120			
		-							
Units:	mg/kg	Date Analyzed: 03/28/17 11:08	SU	RROGATE R	ECOVERY S	STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag			
		Analytes			[D]				
1,4-Difluoro	benzene		0.0313	0.0300	104	80-120			
4-Bromofluorobenzene			0.0288	0.0300	96	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch	#: 3013527	Sample: 549416-014 / SMP	Batc	h: 1 Matrix	: 5011				
U nits:	mg/kg	Date Analyzed: 03/28/17 11:23	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0316	0.0300	105	80-120			
4-Bromoflu	orobenzene		0.0279	0.0300	93	80-120			
Lab Batch	#: 3013527	Sample: 549416-015 / SMP	Batch: 1 Matrix: Soil						
Units:	mg/kg	Date Analyzed: 03/28/17 11:40	SURROGATE RECOVERY STUDY						
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro		Anarytes	0.0320	0.0300	107	80-120			
4-Bromoflu			0.0320	0.0300	87	80-120			
	#: 3013527	Sample: 549416-016 / SMP	Batc			80-120			
Units:	mg/kg	Date Analyzed: 03/28/17 13:35		RROGATE R		TUDV			
	6 6		50	1		1			
		5 by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluoro	obenzene		0.0309	0.0300	103	80-120			
4-Bromoflu			0.0275	0.0300	92	80-120			
Lab Batch	#: 3013527	Sample: 549416-017 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 03/28/17 13:52	SU	RROGATE R	ECOVERY S	STUDY			
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag		
1,4-Difluor			0.0340	0.0300	113	80-120			
4-Bromoflu			0.0278	0.0300	93	80-120			
	#: 3013527	Sample: 549416-018 / SMP	Batc			1			
Units:	mg/kg	Date Analyzed: 03/28/17 14:08	SU	RROGATE R	ECOVERY	STUDY			
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0349	0.0300	116	80-120			
4-Bromofluorobenzene			0.0317	0.0300	106	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:		Sample: 549416-019 / SMP	Batch	n: 1 Matrix						
Units:	mg/kg	Date Analyzed: 03/28/17 14:25	SURROGATE RECOVERY STUDY							
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluorob	enzene		0.0293	0.0300	98	80-120				
4-Bromofluor	obenzene		0.0243	0.0300	81	80-120				
Lab Batch #	: 3013527	Sample: 549416-020 / SMP	Batch	n: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 03/28/17 14:41	SURROGATE RECOVERY STUDY							
		L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1 4 Diffuench		Analytes	0.0245	0.0200		00.120				
1,4-Difluorob			0.0345	0.0300	115	80-120				
4-Bromolluor Lab Batch #:		Sample: 549416-021 / SMP	0.0241	0.0300 n: 1 Matrix	80 80	80-120				
		•	Batch							
Units:	mg/kg	Date Analyzed: 03/28/17 14:57	SU	RROGATE R	ECOVERYS	STUDY				
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluorob	enzene		0.0309	0.0300	103	80-120				
4-Bromofluor	obenzene		0.0251	0.0300	84	80-120				
Lab Batch #	: 3013527	Sample: 549416-022 / SMP	Batch	n: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 03/28/17 15:21	SU	RROGATE R	ECOVERY S	STUDY				
		A polytos	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1.4-Difluorob		Analytes	0.0250	0.0200		00.120				
4-Bromofluor			0.0350	0.0300	117	80-120				
Lab Batch #:		Sample: 549416-023 / SMP	0.0310 Batch	0.0300 n: 1 Matrix	103	80-120				
Units:	mg/kg	Date Analyzed: 03/28/17 15:37								
011113.	шу ку	Date Analyzeu. 05/20/17 15.57	SU	RROGATE R	ECOVERY	STUDY				
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluorob	enzene		0.0306	0.0300	102	80-120				
4-Bromofluorobenzene			0.0244	0.0300	81	80-120				

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

T	···· - /1-	Data Analanada 02/20/17 10.07						
Units:	mg/kg	Date Analyzed: 03/28/17 18:05	SURROGATE RECOVERY STUDY					
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
		Analytes			[D]			
1,4-Difluorol	benzene		0.0330	0.0300	110	80-120		
4-Bromofluo	robenzene		0.0275	0.0300	92	80-120		
Lab Batch #: 3013589 Sample: 549416-027 / SMP			Batc	h: 1 Matrix	: Soil	·		
Units:	mg/kg	Date Analyzed: 03/28/17 18:22	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene			0.0312	0.0300	104	80-120		
4-Bromofluorobenzene			0.0312	0.0300	88	80-120		
Lab Batch #: 3013589 Sample: 549416-025 / SMP			Batc			00 120		
Units:	mg/kg	Date Analyzed: 03/28/17 23:47		STUDY				
	BTEX	t by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
		Analytes			[D]			
1,4-Difluorol	oenzene		0.0326	0.0300	109	80-120		
4-Bromofluo	robenzene		0.0254	0.0300	85	80-120		
Lab Batch #: 3013602 Sample: 549416-024 / SMP			Batch: 1 Matrix: Soil					
Units:	mg/kg	Date Analyzed: 03/29/17 07:08	SURROGATE RECOVERY STUDY					
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage	
1,4-Difluorobenzene			0.0343	0.0300	114	80-120		
4-Bromofluorobenzene			0.0299	0.0300	100	80-120		
Lab Batch #	: 3013499	Sample: 722212-1-BLK / BLK	K Bate	h: 1 Matrix	: Solid		<u> </u>	
Units:	mg/kg	Date Analyzed: 03/24/17 23:55	SU	RROGATE R	ECOVERY S	STUDY		
	TPH B	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
		Analytes	[**]	[10]	[D]			
1-Chloroocta	ne		94.8	100	95	70-135		
o-Terphenyl			49.0	50.0	98	70-135		

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

U nits:	mg/kg	Date Analyzed: 03/26/17 01:18			FOOTEDT				
units:	mg/kg	Date Analyzed: 05/20/17 01:18	SURROGATE RECOVERY STUDY						
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooc	ane		102	100	102	70-135			
o-Terpheny	1		52.7	50.0	105	70-135			
Lab Batch	#: 3013449	Sample: 722180-1-BLK / B	LK Bate	h: 1 Matrix	: Solid				
U nits:	mg/kg	Date Analyzed: 03/27/17 08:39	SURROGATE RECOVERY STUDY						
		t by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes			0.0255	0.0200		00.100			
1,4-Difluorobenzene			0.0355	0.0300	118	80-120			
4-Bromofluorobenzene Lab Batch #: 3013527 Sample: 722233-1-BLK / B			0.0341	0.0300	114 	80-120			
		Sample: 722233-1-BLK / B							
Units:	mg/kg	Date Analyzed: 03/27/17 08:39	SURROGATE RECOVERY STUDY						
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0355	0.0300	118	80-120			
4-Bromoflu	orobenzene		0.0341	0.0300	114	80-120			
Lab Batch	#: 3013451	Sample: 722182-1-BLK / B	LK Bate	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 03/27/17 21:41	SURROGATE RECOVERY STUDY						
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorobenzene			0.0332	0.0300	111	80-120			
4-Bromofluorobenzene			0.0271	0.0300	90	80-120			
Lab Batch	#: 3013589	Sample: 722268-1-BLK / B	LK Bate	h: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 03/28/17 17:49	SU	RROGATE R	ECOVERY	STUDY			
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor			0.0341	0.0300	114	80-120			
4-Bromoflu	orobenzene		0.0272	0.0300	91	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

U nits:	mg/kg	Date Analyzed: 03/29/17 01:42	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0280	0.0300	93	80-120	
4-Bromoflu	orobenzene		0.0293	0.0300	98	80-120	
Lab Batch	#: 3013499	Sample: 722212-1-BKS / BB	KS Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 03/24/17 23:06	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlanses		Analytes	107	100		70.105	
1-Chlorooc			107	100	107	70-135	
o-Terpheny	#: 3013501	Semilar 700014 1 DKS / DI	55.2	50.0	110 	70-135	
		Sample: 722214-1-BKS / BH					
Units:	mg/kg	Date Analyzed: 03/26/17 01:40	SU	RROGATE R	ECOVERY S	STUDY	
	TPH I	3y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		92.4	100	92	70-135	
o-Terpheny	1		46.3	50.0	93	70-135	
Lab Batch	#: 3013449	Sample: 722180-1-BKS / BI	KS Batc	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 03/27/17 07:17	SU	RROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0324	0.0300	108	80-120	
4-Bromoflu			0.0324	0.0300	103	80-120	
	#: 3013527	Sample: 722233-1-BKS / BI				00 120	
Units:	mg/kg	Date Analyzed: 03/27/17 07:17		RROGATE R		STUDY	
		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes				[D]		
1,4-Difluor	obenzene		0.0324	0.0300	108	80-120	
	-Bromofluorobenzene			0.0300	104	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Lab Batch #:		Sample: 722182-1-BKS / BF	BKS Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY									
Units:	mg/kg	Date Analyzed: 03/27/17 20:19	SU	RROGATE R	ECOVERY S	STUDY						
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage					
		Analytes			[D]							
1,4-Difluorobe	enzene		0.0339	0.0300	113	80-120						
4-Bromofluoro	obenzene		0.0282	0.0300	94	80-120						
Lab Batch #:	3013589	Sample: 722268-1-BKS / BI	KS Bate	h: 1 Matrix	: Solid							
Units:	mg/kg	Date Analyzed: 03/28/17 16:27	SU	RROGATE R	ECOVERY S	STUDY						
		X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobe			0.0336	0.0300	112	80-120						
4-Bromofluoro			0.0305	0.0300	102	80-120						
Lab Batch #:	3013602	Sample: 722269-1-BKS / BB		h: 1 Matrix	_							
Units:	mg/kg	Date Analyzed: 03/29/17 00:20		RROGATE R		STUDY						
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes	[]	[-]	[D]	,						
1,4-Difluorobe	enzene		0.0341	0.0300	114	80-120						
4-Bromofluoro	obenzene		0.0273	0.0300	91	80-120						
Lab Batch #:	3013499	Sample: 722212-1-BSD / BS	SD Bate	h: 1 Matrix	: Solid							
Units:	mg/kg	Date Analyzed: 03/24/17 23:30	SU	RROGATE R	ECOVERY S	STUDY						
		By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctan		Anaryus	117	100	117	70-135						
o-Terphenyl	6			50.0								
Lab Batch #:	3013501	Sample: 722214-1-BSD / BS	55.7 SD Bate		111 • Solid	70-135						
Units:	mg/kg	Date Analyzed: 03/26/17 02:00		RROGATE R		TUDV						
~ 111031		2 ute 111ui j 2 ut 05, 20, 17 02.00	50	KUGAIE K	LCOVERIS							
	TPH By SW8015 Mod			True Amount [B]	Recovery %R	Control Limits %R	Flage					
r	Analytes				[D]							
	1-Chlorooctane			100	101	70-135						
o-Ternhenvl	p-Terphenyl			50.0	102	70-135						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

U nits:	mg/kg	Date Analyzed: 03/27/17 07:33	SURROGATE RECOVERY STUDY									
units.	mg/kg	Date Analyzeu. 03/27/17/07.33	SU	JRROGATE R	ECOVERY	STUDY						
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
1,4-Difluoro	obenzene		0.0316	0.0300	105	80-120						
4-Bromoflu	orobenzene		0.0252	0.0300	84	80-120						
Lab Batch	#: 3013527	Sample: 722233-1-BSD / BS	SD Bate	h: 1 Matrix	: Solid							
Units:	mg/kg	Date Analyzed: 03/27/17 07:33	SU	JRROGATE R	ECOVERY	STUDY						
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4-Difluor		Analytes	0.0316	0.0300	105	80-120						
4-Bromoflu			0.0252	0.0300	84	80-120						
	#: 3013451	Sample: 722182-1-BSD / BS				00 120						
Units:	mg/kg	Date Analyzed: 03/27/17 20:35		JRROGATE R	-	STUDY						
	BTEX	by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags					
		Analytes	[A]	[B]	%R [D]	%R	0					
1,4-Difluor	benzene		0.0347	0.0300	116	80-120						
4-Bromoflu	orobenzene		0.0329	0.0300	110	80-120						
Lab Batch	#: 3013589	Sample: 722268-1-BSD / BS	SD Bate	h: 1 Matrix	: Solid	1						
Units:	mg/kg	Date Analyzed: 03/28/17 16:43	SU	JRROGATE R	ECOVERY	STUDY						
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4 D:fl		Analytes	0.0220	0.0200		00.100						
1,4-Difluor			0.0330	0.0300	110	80-120						
4-Bromoflu	#: 3013602	Sample: 722269-1-BSD / BS	0.0308	0.0300	103	80-120						
		•										
Units:	mg/kg	Date Analyzed: 03/29/17 00:36	SU	JRROGATE R	ECOVERY S	STUDY						
	BTEX by EPA 8021B			True Amount [B]	Recovery %R	Control Limits %R	Flage					
	Analytes				[D]							
1,4-Difluor	,4-Difluorobenzene			0.0300	116	80-120						
4 Bromoflu	-Bromofluorobenzene			0.0300	88	80-120						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

Units:	mg/kg	Date Analyzed: 03/25/17 00:44	SURROGATE RECOVERY STUDY									
Units.	mg/kg	Date Analyzeu, 05/25/17/00.44	SU	JKRUGATE R	ECOVERY S	STUDY						
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
1-Chlorooctane	;		103	99.9	103	70-135						
o-Terphenyl			47.5	50.0	95	70-135						
Lab Batch #:	3013501	Sample: 549418-001 S / MS	Bate	h: 1 Matrix	: Soil	I I						
Units:	mg/kg	Date Analyzed: 03/26/17 02:41	SU	JRROGATE R	ECOVERY	STUDY						
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		Analytes	065	00.0		70-135						
o-Terphenyl			96.5	99.9 50.0	97	70-135						
Lab Batch #:	3013449	Sample: 549416-001 S / MS	Bate			70-155						
Units:	mg/kg	Date Analyzed: 03/27/17 07:50										
Units.	iiig/kg	Date Anaryzeu. 03/21/17/07.50	SU	JRROGATE R	ECOVERY	STUDY						
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
1,4-Difluorobe	nzene		0.0308	0.0300	103	80-120						
4-Bromofluoro			0.0304	0.0300	101	80-120						
Lab Batch #:	3013451	Sample: 549416-002 S / MS	Bate	h: 1 Matrix	: Soil							
Units:	mg/kg	Date Analyzed: 03/27/17 20:52	SU	JRROGATE R	ECOVERY S	STUDY						
		L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4-Difluorobe		Analytes	0.0257	0.0200		80.120						
4-Bromofluoro			0.0357	0.0300	119	80-120 80-120						
Lab Batch #:		Sample: 549416-013 S / MS	Bate			00-120						
Units:	mg/kg	Date Analyzed: 03/28/17 08:08		JRROGATE R		STUDY						
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes					[D]							
1,4-Difluorobe	,4-Difluorobenzene			0.0300	109	80-120						
4-Bromofluorobenzene			0.0296	0.0300	99	80-120						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

	r ders : 549410 #: 3013589	5, Sample: 549416-026 S / MS	MS Batch: 1 Matrix: Soil							
Units:	mg/kg	Date Analyzed: 03/28/17 17:00	SU	RROGATE R	ECOVERY	STUDY				
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluoro	obenzene		0.0323	0.0300	108	80-120				
4-Bromoflu	orobenzene		0.0318	0.0300	106	80-120				
Lab Batch	#: 3013602	Sample: 549418-001 S / MS	S Bate	h: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 03/29/17 00:53	SU	RROGATE R	ECOVERY S	STUDY				
		L by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluoro			0.0356	0.0300	119	80-120				
4-Bromoflu			0.0330	0.0300	110	80-120				
	#: 3013499	Sample: 549416-001 SD / N				00 120				
Units:	mg/kg	Date Analyzed: 03/25/17 01:10		RROGATE R	-	STUDY				
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes	[A]	[0]	[D]	701				
1-Chlorooct	ane		98.3	99.7	99	70-135				
o-Terpheny	l		46.2	49.9	93	70-135				
Lab Batch	#: 3013501	Sample: 549418-001 SD / N	ASD Bate	h: 1 Matrix	: Soil	1	I			
Units:	mg/kg	Date Analyzed: 03/26/17 03:03	SU	RROGATE R	ECOVERY	STUDY				
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1-Chlorooct	ane		89.0	99.9	89	70-135	<u> </u>			
o-Terpheny	l		43.7	50.0	87	70-135				
Lab Batch	#: 3013449	Sample: 549416-001 SD / M	ASD Bate	h: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 03/27/17 08:06	SU	RROGATE R	ECOVERY	STUDY				
		L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
1.4.5.2	Analytes				[D]					
	,4-Difluorobenzene			0.0300	117	80-120				
4-Bromoflu	orobenzene		0.0329	0.0300	110	80-120				

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station Sump

	rders : 54941 #: 3013451	6, Sample: 549416-002 SD / N	MSD Batch		: TRC# 2738 : Soil	18	
Units:	mg/kg	Date Analyzed: 03/27/17 21:08		RROGATE R		STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0358	0.0300	119	80-120	
4-Bromoflu	iorobenzene		0.0338	0.0300	113	80-120	
Lab Batch	#: 3013527	Sample: 549416-013 SD / N	ASD Batch	n: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 03/28/17 08:25	SU	RROGATE R	ECOVERY	STUDY	
		K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor			0.0339	0.0300	113	80-120	
4-Bromoflu	iorobenzene		0.0310	0.0300	103	80-120	
Lab Batch	#: 3013589	Sample: 549416-026 SD / M	MSD Batch	n: 1 Matrix	: Soil	1	
Units:	mg/kg	Date Analyzed: 03/28/17 17:16	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0345	0.0300	115	80-120	
4-Bromoflu	iorobenzene		0.0300	0.0300	100	80-120	
Lab Batch	#: 3013602	Sample: 549418-001 SD / N	ASD Batch	n: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 03/29/17 01:09	SU	RROGATE R	ECOVERY	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0335	0.0300	112	80-120	
4-Bromoflu	orobenzene		0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: A14 Compressor Station Sump

Work Order	r#: 549416							Proj	ject ID:	TRC# 2738	18			
Analyst:	ALJ	D	ate Prepar	red: 03/27/201	17			Date A	nalyzed: (03/27/2017				
Lab Batch ID	Sample: 722180-1	-BKS	Batc	h #: 1					Matrix:	Solid				
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	E / BLANK SPIKE DUPLICATE RECOVERY STUDY								
Analy	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Benzene	,	<0.00150	0.0998	0.0829	83	0.100	0.0801	80	3	70-130	35			
Toluene		<0.00200	0.0998	0.0936	94	0.100	0.0851	85	10	70-130	35			
Ethylbenz	zene	< 0.00200	0.0998	0.0919	92	0.100	0.0876	88	5	71-129	35			
m_p-Xyle	enes	< 0.00200	0.200	0.178	89	0.201	0.173	86	3	70-135	35			
o-Xylene		< 0.00299	0.0998	0.0940	94	0.100	0.0892	89	5	71-133	35			
Analyst:	ALJ	D	ate Prepar	red: 03/27/201	17			Date A	nalyzed: (03/27/2017				
Lab Batch ID	Sample: 722182-1	-BKS	Bate	h #: 1					Matrix: S	Solid				
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY			
Analy	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Benzene		<0.00150	0.0998	0.0802	80	0.0992	0.0878	89	9	70-130	35			
Toluene		<0.00200	0.0998	0.0850	85	0.0992	0.0947	95	11	70-130	35			
Ethylbenz	zene	<0.00200	0.0998	0.0833	83	0.0992	0.0958	97	14	71-129	35			
m_p-Xyle	enes	<0.00200	0.200	0.161	81	0.198	0.186	94	14	70-135	35			
o-Xylene		< 0.00299	0.0998	0.0845	85	0.0992	0.0966	97	13	71-133	35			





Project Name: A14 Compressor Station Sump

Work Order	* #: 549416							Proj	ect ID:	ГRC# 2738	18			
Analyst:	ALJ	D	ate Prepar	ed: 03/28/201	7			Date A	nalyzed: (03/27/2017				
Lab Batch ID	: 3013527 Sample: 722233-1-H	BKS	Bate	h #: 1					Matrix: S	Solid				
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	E / BLANK SPIKE DUPLICATE RECOVERY STUDY								
Analy	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Benzene		<0.00150	0.0998	0.0829	83	0.100	0.0799	80	4	70-130	35			
Toluene		<0.00200	0.0998	0.0936	94	0.100	0.0849	85	10	70-130	35			
Ethylbenz	ene	< 0.00200	0.0998	0.0919	92	0.100	0.0875	88	5	71-129	35			
m_p-Xyler	nes	< 0.00200	0.200	0.178	89	0.200	0.173	87	3	70-135	35			
o-Xylene		<0.00299	0.0998	0.0940	94	0.100	0.0890	89	5	71-133	35			
Analyst:	ALJ	D	ate Prepar	red: 03/28/201	7			Date A	nalyzed: ()3/28/2017				
Lab Batch ID	: 3013589 Sample: 722268-1-H	BKS	Batc	h #: 1					Matrix: S	Solid				
Units:	mg/kg		BLAN	K /BLANK S	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE)Y			
Analy	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Benzene		<0.00150	0.100	0.107	107	0.0998	0.0921	92	15	70-130	35			
Toluene		<0.00200	0.100	0.112	112	0.0998	0.0993	99	12	70-130	35			
Ethylbenz	ene	< 0.00200	0.100	0.118	118	0.0998	0.104	104	13	71-129	35			
m_p-Xyler	nes	< 0.00200	0.200	0.228	114	0.200	0.200	100	13	70-135	35			
o-Xylene		<0.00301 0.100 0.119 11					0.103	103	14	71-133	35			





Project Name: A14 Compressor Station Sump

Work Order	#: 549416							Proj	ject ID:	ГRC# 2738	18	
Analyst:	ALJ	D	ate Prepar	red: 03/28/201	7			Date A	nalyzed: (3/29/2017		
Lab Batch ID:	Sample: 722269-1- H	BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ΟY	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	tes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.00149	0.0990	0.0886	89	0.100	0.0825	83	7	70-130	35	
Toluene		< 0.00198	<0.00198 0.0990 0.0935 94 0.100 0.0856 86 9 70-130 35									
Ethylbenze	ne	< 0.00198	0.0990	0.0942	95	0.100	0.0873	87	8	71-129	35	
m_p-Xylen	les	< 0.00198	0.198	0.183	92	0.201	0.171	85	7	70-135	35	
o-Xylene		< 0.00297	0.0990	0.0965	97	0.100	0.0905	91	6	71-133	35	
Analyst:	ALA	D	ate Prepar	red: 04/01/201	7			Date A	nalyzed: (4/01/2017		
Lab Batch ID:	3013911 Sample: 722455-1-H	BKS	Batcl	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ΟY	
Analy	Chloride by EPA 300 tes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<1.00	10.0	9.91	99	10.0	10.0	100	1	80-120	20	





Project Name: A14 Compressor Station Sump

Work Orden	r#: 549416								Proj	ject ID:	FRC# 2738	318			
Analyst:	ALA		D	ate Prepar	red: 04/01/201	7			Date A	nalyzed: (04/02/2017				
Lab Batch ID	: 3013926	Sample: 722476-1-B	SKS	Batcl	h #: 1					Matrix: S	Solid				
Units:	mg/kg			BLAN	K /BLANK S	SPIKE / 1	E / BLANK SPIKE DUPLICATE RECOVERY STUDY								
Analy	Chloride by EPA	. 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Chloride			<1.00	10.0	10.1	101	10.0	10.1	101	0	80-120	20			
Analyst:	ALA		Da	ate Prepar	red: 04/03/201	7			Date A	nalyzed: (04/03/2017	1			
Lab Batch ID	: 3014002	Sample: 722515-1-B	SKS	Batcl	h #: 1					Matrix: S	Solid				
Units:	mg/kg			BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY			
Analy	Chloride by EPA	. 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Chloride	ytes		<2.00	20.0	20.2	101	20.0	19.8	99	2	80-120	20			
Analyst:	ARM				red: 03/24/201	-	2010	1710		nalyzed: (
Lab Batch ID	: 3013499	Sample: 722212-1-B	SKS	Batcl	h #: 1					Matrix: S	Solid				
Units:	mg/kg			BLAN	K /BLANK S	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY			
Analy	TPH By SW8015		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
	asoline Range Hydrocarbo	ns	<15.0	1000	1070	107	1000	1150	115	7	70-135	35			
C10-C28	Diesel Range Organics		<15.0	1000	1060	106	1000	1130	113	6	70-135	35			





Project Name: A14 Compressor Station Sump

Work Order	#: 549416						Project ID: TRC# 273818					
Analyst:	ARM	D	ate Prepai	ed: 03/24/201	7			Date A	nalyzed: ()3/26/2017		
Lab Batch ID	: 3013501 Sample: 722214-1-1	BKS	Bate	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	BLANK SPIKE DUPLICATE RECOVERY STUDY					
	TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	rtes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C10 G	asoline Range Hydrocarbons	<15.0	1000	908	91	1000	1040	104	14	70-135	35	
C10-C28 I	Diesel Range Organics	<15.0	1000	885	89	1000	1000	100	12	70-135	35	



Project Name: A14 Compressor Station Sump



Work Order # : 549416						Project II	D: TRC#	273818			
Lab Batch ID: 3013449	QC- Sample ID:	549416	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed: 03/27/2017	Date Prepared:	03/27/2	2017	Ar	nalyst: A	ALJ					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	'RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%K [D]	E]	Kesuit [F]	%K [G]	70	%K	%KPD	
Benzene	< 0.00150	0.0998	0.0740	74	0.0994	0.0741	75	0	70-130	35	
Toluene	<0.00200	0.0998	0.0771	77	0.0994	0.0743	75	4	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0752	75	0.0994	0.0704	71	7	71-129	35	
m_p-Xylenes	< 0.00200	0.200	0.149	75	0.199	0.142	71	5	70-135	35	
o-Xylene	< 0.00299	0.0998	0.0818	82	0.0994	0.0756	76	8	71-133	35	
Lab Batch ID: 3013451	QC- Sample ID:	549416	-002 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed: 03/27/2017	Date Prepared:	03/27/2	2017	Ar	nalyst: /	ALJ					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	'RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00149	0.0990	0.0701	71	0.0994	0.0736	74	5	70-130	35	
Toluene	< 0.00198	0.0990	0.0732	74	0.0994	0.0717	72	2	70-130	35	
Ethylbenzene	< 0.00198	0.0990	0.0708	72	0.0994	0.0702	71	1	71-129	35	
m_p-Xylenes	<0.00198	0.198	0.143	72	0.199	0.133	67	7	70-135	35	X
o-Xylene	<0.00297	0.0990	0.0736	74	0.0994	0.0727	73	1	71-133	35	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: A14 Compressor Station Sump



Work Order # : 549416						Project II): TRC#	273818			
Lab Batch ID: 3013527	QC- Sample ID:	549416	-013 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 03/28/2017	Date Prepared:	03/28/2	2017	An	alyst: A	ALJ					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Result [1]	[G]	/0	/01		
Benzene	<0.00151	0.101	0.0864	86	0.101	0.0755	75	13	70-130	35	
Toluene	<0.00201	0.101	0.0896	89	0.101	0.0767	76	16	70-130	35	
Ethylbenzene	< 0.00201	0.101	0.0860	85	0.101	0.0735	73	16	71-129	35	
m_p-Xylenes	< 0.00201	0.201	0.166	83	0.202	0.143	71	15	70-135	35	
o-Xylene	< 0.00302	0.101	0.0928	92	0.101	0.0735	73	23	71-133	35	
Lab Batch ID: 3013589	QC- Sample ID:	549416	-026 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 03/28/2017	Date Prepared:	03/28/2	2017	An	alyst: A	ALJ					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00150	0.0998	0.0874	88	0.0994	0.0811	82	7	70-130	35	
Toluene	< 0.00200	0.0998	0.0879	88	0.0994	0.0795	80	10	70-130	35	
Ethylbenzene	< 0.00200	0.0998	0.0853	85	0.0994	0.0723	73	16	71-129	35	
m_p-Xylenes	< 0.00200	0.200	0.164	82	0.199	0.137	69	18	70-135	35	Х
o-Xylene	< 0.00299	0.0998	0.0903	90	0.0994	0.0744	75	19	71-133	35	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: A14 Compressor Station Sump



Work Order # :	549416						Project II): TRC#	273818			
Lab Batch ID:	3013602	QC- Sample ID:	549418-(001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	03/29/2017	Date Prepared:	03/28/20	17	An	alyst: A	ALJ					
Reporting Units:	mg/kg		MA	ATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene		<0.00151	0.100	0.0716	72	0.101	0.0798	79	11	70-130	35	
Toluene		< 0.00201	0.100	0.0726	73	0.101	0.0815	81	12	70-130	35	
Ethylbenzene		<0.00201	0.100	0.0728	73	0.101	0.0819	81	12	71-129	35	
m_p-Xylenes		<0.00201	0.201	0.143	71	0.202	0.155	77	8	70-135	35	
o-Xylene		<0.00301	0.100	0.0713	71	0.101	0.0841	83	16	71-133	35	
Lab Batch ID:	3013911	QC- Sample ID:	549265-()21 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	04/01/2017	Date Prepared:	04/01/20	17	An	alyst: A	ALA					
Reporting Units:	mg/kg		MA	ATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		1160	99.4	1380	221	99.4	1360	201	1	80-120	20	Х
Lab Batch ID:	3013911	QC- Sample ID:	549416-()02 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	04/01/2017	Date Prepared:	04/01/20	17	An	alyst: A	ALA					
Reporting Units:	mg/kg		MA	ATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[U]	[D]	[E]	Acoutt [F]	[G]	/0	/01		
		1							1	1	1	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: A14 Compressor Station Sump



Work Order # :	549416						Project II	: TRC#	273818			
Lab Batch ID:	3013926	QC- Sample ID:	549416	-014 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	04/02/2017	Date Prepared:	04/01/2	017	An	alyst: A	ALA					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	FE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		62.5	99.8	164	102	99.8	164	102	0	80-120	20	
Lab Batch ID:	3013926	QC- Sample ID:	549416	-024 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	04/02/2017	Date Prepared:	04/01/2	017	An	alyst: A	ALA					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	ге rec	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		34.8	98.8	136	102	98.8	136	102	0	80-120	20	
Lab Batch ID:	3014002	QC- Sample ID:	549470	-012 S	Ba	tch #:	1 Matrix	: Solid				
Date Analyzed:	04/03/2017	Date Prepared:	04/03/2	017	An	alyst: A	ALA					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	FE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[0]	⁷ 0K [D]	E]	Kesult [F]	56K [G]	/0	70K	70KPD	
Chloride		8090	100	7970	0	100	7980	0	0	80-120	20	X

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: A14 Compressor Station Sump



Work Order # : 549416						Project II): TRC#	273818			
Lab Batch ID: 3014002	QC- Sample ID:	549470	-020 S	Ba	tch #:	1 Matrix	k: Solid				
Date Analyzed: 04/04/2017	Date Prepared:	04/03/2	017	An	alyst: A	ALA					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		/0K [D]	[E]	Kesun [F]	[G]	70	70K	70KI D	
Chloride	43.6	100	148	104	100	147	103	1	80-120	20	
Lab Batch ID: 3013499	QC- Sample ID:	549416	-001 S	Ba	tch #:	1 Matrix	k: Soil		·		
Date Analyzed: 03/25/2017	Date Prepared:	03/24/2	017	An	alyst: A	ARM					
Reporting Units: mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
		hohh A		V ₀ R	Added	Result F	% R	%	₩	⊢ %RPD	
Analytes	[A]	[B]		[D]	[E]	itesuit [1]	[G]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		/0112	
Analytes C6-C10 Gasoline Range Hydrocarbons			1050			998		5	70-135	35	
	[A]	[B]		[D]	[E]		[G]				
C6-C10 Gasoline Range Hydrocarbons	[A] <15.0	[B] 999 999	1050 1030	[D] 105 95	[E] 997	998 993	[G] 100	5	70-135	35	
C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Organics	[A] <15.0 79.9	[B] 999 999 549418	1050 1030 -001 S	[D] 105 95 Ba	[E] 997 997	998 993 1 Matri	[G] 100 92	5	70-135	35	
C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Organics Lab Batch ID: 3013501	[A] <15.0 79.9 QC- Sample ID:	[B] 999 999 549418 03/24/2	1050 1030 -001 S 017	[D] 105 95 Ba An	[E] 997 997 tch #: aalyst: 4	998 993 1 Matri	[G] 100 92 x: Soil	5 4	70-135 70-135	35	
C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Organics Lab Batch ID: 3013501 Date Analyzed: 03/26/2017	[A] <15.0 79.9 QC- Sample ID: Date Prepared: Parent Sample	[B] 999 549418 03/24/2 N Spike	1050 1030 -001 S 017 IATRIX SPIK Spiked Sample Result	[D] 105 95 Ba An E / MAT Spiked Sample	[E] 997 997 tch #: aalyst: 4 RIX SPI Spike	998 993 1 Matrix ARM KE DUPLICA Duplicate Spiked Sample	[G] 100 92 x: Soil TE REC Spiked Dup.	5 4 OVERY S RPD	70-135 70-135 STUDY Control Limits	35 35 Control Limits	Flag
C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Organics Lab Batch ID: 3013501 Date Analyzed: 03/26/2017 Reporting Units: mg/kg	[A] <15.0 79.9 QC- Sample ID: Date Prepared: Parent	[B] 999 549418 03/24/2 N	1050 1030 -001 S 017 IATRIX SPIK	[D] 105 95 Ba An E / MAT Spiked	[E] 997 997 tch #: alyst: 4 RIX SPI	998 993 1 Matrix ARM KE DUPLICA Duplicate	[G] 100 92 x: Soil TE REC Spiked	5 4 OVERY 5	70-135 70-135 STUDY Control	35 35 Control	Flag
C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Organics Lab Batch ID: 3013501 Date Analyzed: 03/26/2017 Reporting Units: mg/kg TPH By SW8015 Mod	[A] <15.0 79.9 QC- Sample ID: Date Prepared: Parent Sample Result	[B] 999 549418 03/24/2 N Spike Added	1050 1030 -001 S 017 IATRIX SPIK Spiked Sample Result	[D] 105 95 Ba An E / MAT Spiked Sample %R	[E] 997 997 tch #: aalyst: A RIX SPI Spike Added	998 993 1 Matrix ARM KE DUPLICA Duplicate Spiked Sample	[G] 100 92 x: Soil TE REC Spiked Dup. %R	5 4 OVERY S RPD	70-135 70-135 STUDY Control Limits	35 35 Control Limits	Flag

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/24/2017 02:55:00 PM Temperature Measuring device used : R8 Work Order #: 549416 Comments Sample Receipt Checklist 2.2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seal present on shipping container/ cooler? N/A #5 *Custody Seals intact on shipping container/ cooler? N/A N/A #6 Custody Seals intact on sample bottles? #7 *Custody Seals Signed and dated? N/A #8 *Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 VOC samples have zero headspace? N/A #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica WAMER Jessica Kramer Checklist reviewed by: Kelsey Brooks

Date: 03/24/2017

Date: 03/27/2017

Analytical Report 549418

for TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station

03-APR-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



03-APR-17



Project Manager: **Nikki Green TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 549418 A14 Compressor Station Project Address: Lea County, NM

Nikki Green:

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) 549418. 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. 549418 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Sample Id BG-1 1' Sample Cross Reference 549418



TRC Solutions, Inc, Midland, TX

A14 Compressor Station

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	03-23-17 16:45	- 1 ft	549418-001

Page 3 of 15



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A14 Compressor Station

Project ID: Work Order Number(s): 549418
 Report Date:
 03-APR-17

 Date Received:
 03/24/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3013602 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:Contact:Nikki GreenProject Location:Lea County, NM

Certificate of Analysis Summary 549418

TRC Solutions, Inc, Midland, TX Project Name: A14 Compressor Station



Date Received in Lab:Fri Mar-24-17 02:55 pmReport Date:03-APR-17Project Manager:Kelsey Brooks

	Lab Id:	549418-001			
	Field Id:	BG-1 1'			
Analysis Requested	Depth:	1 ft			
	Matrix:	SOIL			
	Sampled:	Mar-23-17 16:45			
BTEX by EPA 8021B	Extracted:	Mar-28-17 16:50	1		
	Analyzed:	Mar-29-17 01:58			
	Units/RL:	mg/kg RL			
Benzene		ND 0.00151			
Toluene		ND 0.00201			
Ethylbenzene		ND 0.00201			
m_p-Xylenes		ND 0.00201			
o-Xylene		ND 0.00301			
Total Xylenes		ND 0.00201			
Total BTEX		ND 0.00151			
Chloride by EPA 300	Extracted:	Apr-01-17 14:14			
SUB: TX104704215	Analyzed:	Apr-02-17 11:11			
	Units/RL:	mg/kg RL			
Chloride		ND 9.96			
TPH By SW8015 Mod	Extracted:	Mar-24-17 17:00			
	Analyzed:	Mar-26-17 02:20			
	Units/RL:	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 15.0			
C10-C28 Diesel Range Organics		ND 15.0			
C28-C35 Oil Range Hydrocarbons		ND 15.0			
Total TPH		ND 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Huns Boah

Kelsey Brooks Project Manager



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 S	SDL Sample Detection Limit	LOD Limit of Detection
------------------------------	----------------------------	------------------------

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: A14 Compressor Station

Lab Batch #	ders : 549418 #: 3013501	Sample: 549418-001 / SMP	Batc	Project ID			
Units:	mg/kg	Date Analyzed: 03/26/17 02:20	SU	JRROGATE R	ECOVERY S	TUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ane		103	99.8	103	70-135	
o-Terphenyl			52.6	49.9	105	70-135	
Lab Batch #	#: 3013602	Sample: 549418-001 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/29/17 01:58	SU	JRROGATE R	ECOVERY S	TUDY	
		by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluorol		Anaryus	0.0358	0.0300	119	80-120	
4-Bromofluo			0.0356	0.0300	119	80-120	
Lab Batch #	#: 3013501	Sample: 722214-1-BLK / BL				00 120	
Units:	mg/kg	Date Analyzed: 03/26/17 01:18		JRROGATE R	ECOVERY S	TUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ine		102	100	102	70-135	
o-Terphenyl			52.7	50.0	105	70-135	
Lab Batch #	#: 3013602	Sample: 722269-1-BLK / BL	K Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 03/29/17 01:42	SU	JRROGATE R	ECOVERY S	TUDY	
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1 4 Difference		Analytes	0.0000	0.0200		00.120	
1,4-Difluorol			0.0280	0.0300	93	80-120	
4-Bromofluo Lab Batch #		Sample: 722214-1-BKS / BK	0.0293	0.0300	98	80-120	
		-					
Units:	mg/kg	Date Analyzed: 03/26/17 01:40	SU	JRROGATE R	ECOVERY S	STUDY	
	TPH F	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ane		92.4	100	92	70-135	
o-Terphenyl			46.3	50.0	93	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station

	:ders : 549418 #: 3013602	8, Sample: 722269-1-BKS / BF	KS Batch	Project ID : 1 Matrix	: :: Solid		
Units:	mg/kg	Date Analyzed: 03/29/17 00:20	SUI	RROGATE R	ECOVERY S	STUDY	
		L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0341	0.0300	114	80-120	
4-Bromoflu	orobenzene		0.0273	0.0300	91	80-120	
Lab Batch	#: 3013501	Sample: 722214-1-BSD / BS	SD Batch	: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 03/26/17 02:00	SUI	RROGATE R	ECOVERY S	STUDY	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooc			101	100	101	70-135	
o-Terpheny			50.8	50.0	102	70-135	
Lab Batch	#: 3013602	Sample: 722269-1-BSD / BS	SD Batch	: 1 Matrix	c: Solid		
Units:	mg/kg	Date Analyzed: 03/29/17 00:36	SUI	RROGATE R	ECOVERY S	STUDY	
	BTEX	L by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0347	0.0300	116	80-120	
4-Bromoflu	orobenzene		0.0265	0.0300	88	80-120	
Lab Batch	#: 3013501	Sample: 549418-001 S / MS	Batch	: 1 Matrix	c: Soil		
Units:	mg/kg	Date Analyzed: 03/26/17 02:41	SUI	RROGATE R	ECOVERY S	STUDY	
		By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooc			96.5	99.9	97	70-135	
o-Terpheny			48.2	50.0	96	70-135	
	#: 3013602	Sample: 549418-001 S / MS					
Units:	mg/kg	Date Analyzed: 03/29/17 00:53	SUI	RROGATE R	ECOVERY S	STUDY	
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor			0.0356	0.0300	119	80-120	
4-Bromoflu	orobenzene		0.0330	0.0300	110	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station

Work Orde Lab Batch #:		8, Sample: 549418-001 SD / N	MSD Batc	Project ID: h: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 03/26/17 03:03	SU	RROGATE R	ECOVERY S	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	•	Analytes	89.0	99.9	89	70-135	
o-Terphenyl			43.7	50.0	87	70-135	
Lab Batch #:	3013602	Sample: 549418-001 SD / N	MSD Batc	h: 1 Matrix:	Soil	11	
Units:	mg/kg	Date Analyzed: 03/29/17 01:09	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorober	nzene	Analytes	0.0335	0.0300	112	80-120	
4-Bromofluorol			0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: A14 Compressor Station



Work Orde	er #: 549418							Pro	ject ID:				
Analyst:	ALJ	D	ate Prepar	red: 03/28/20	17	Date Analyzed: 03/29/2017 Matrix: Solid							
Lab Batch II	D: 3013602 Sample: 7222	69-1-BKS	Batc	h #: 1									
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY		
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Ana	lytes		[B]	[C]	[D]	[E]	Result [F]	[G]					
Benzene	;	<0.00149	0.0990	0.0886	89	0.100	0.0825	83	7	70-130	35		
Toluene		<0.00198	0.0990	0.0935	94	0.100	0.0856	86	9	70-130	35		
Ethylber	nzene	< 0.00198	0.0990	0.0942	95	0.100	0.0873	87	8	71-129	35		
m_p-Xy	lenes	< 0.00198	0.198	0.183	92	0.201	0.171	85	7	70-135	35		
o-Xylene	e	< 0.00297	0.0990	0.0965	97	0.100	0.0905	91	6	71-133	35		
Analyst:	ALA	D	ate Prepar	ed: 04/01/20	17	1		Date A	nalyzed:	04/02/2017		-	
Lab Batch II	D: 3013954 Sample: 7224	82-1-BKS	Bate	h #: 1					Matrix:	Solid			
U nits:	mg/kg		BLAN	K /BLANK	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY		
	Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Besult [E]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Ana	•		נםן	[C]	[D]	[E]	Result [F]	[6]					
Chloride	•	<1.00	10.0	9.91	99	10.0	9.77	98	1	80-120	20		



Project Name: A14 Compressor Station



Work Order #	#: 549418							Pro	ject ID:				
Analyst:	ARM	Da	ate Prepar	red: 03/24/201	17	Date Analyzed: 03/26/2017							
Lab Batch ID:	3013501 Sample: 722214-1-E	BKS	Batc	h #: 1					Matrix: S	Solid			
Units:	mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
r.	TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analyt	es		[B]	[C]	[D]	[E]	Result [F]	[G]					
C6-C10 Gas	soline Range Hydrocarbons	<15.0	1000	908	91	1000	1040	104	14	70-135	35		
C10-C28 Di	iesel Range Organics	<15.0	1000	885	89	1000	1000	100	12	70-135	35		



Project Name: A14 Compressor Station



Work Order # : 549418						Project II	D:					
Lab Batch ID: 3013602	C- Sample ID:	549418	-001 S	Ba	tch #:	1 Matri	x: Soil					
Date Analyzed: 03/29/2017	Date Prepared:	03/28/2	017	Ar	nalyst: A	ALJ						
Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes	[A]	[B]		[D]	[E]		[G]					
Benzene	<0.00151	0.100	0.0716	72	0.101	0.0798	79	11	70-130	35		
Toluene	< 0.00201	0.100	0.0726	73	0.101	0.0815	81	12	70-130	35		
Ethylbenzene	<0.00201	0.100	0.0728	73	0.101	0.0819	81	12	71-129	35		
m_p-Xylenes	< 0.00201	0.201	0.143	71	0.202	0.155	77	8	70-135	35		
o-Xylene	< 0.00301	0.100	0.0713	71	0.101	0.0841	83	16	71-133	35		
Lab Batch ID: 3013954 (C- Sample ID:	549418	-001 S	Ba	tch #:	1 Matri	x: Soil					
Date Analyzed: 04/02/2017	Date Prepared:	04/01/2	017	Ar	nalyst: A	ALA						
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY			
Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag	
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD		
Chloride	<9.96	99.6	104	104	99.6	103	103	1	80-120	20		
Lab Batch ID: 3013954 (QC- Sample ID:	549469	-007 S	Ba	tch #:	1 Matri	x: Soil					
Date Analyzed: 04/02/2017	Date Prepared:	04/01/2	017	Ar	nalyst: A	ALA						
Reporting Units: mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY			
Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	70	70 K	70KPD		
	1											

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Project Name: A14 Compressor Station



Work Order # :	549418						Project II):				
Lab Batch ID:	3013501 Q	C- Sample ID:	549418	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	ate Analyzed: 03/26/2017 Date Prepa				An	alyst: A	ARM					
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Г	TPH By SW8015 Mod			Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C10 Gasoline	e Range Hydrocarbons	<15.0	999	972	97	999	879	88	10	70-135	35	
C10-C28 Diesel	Range Organics	<15.0	999	951	95	999	872	87	9	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

elinquis	elinquis	Bill to Rose Relinquished	Special								LAB # (lab use only)	ORDER #:	(lab use only)								The Env
Relinquished by:	Relinquished by:	Bill to Rose Slade at Energy Transfer Relinquished by:	Special Instructions:							Back	FIE	R#: 0 - / 0	only) SUQ		Telephone No: Sampler Signature:		Citu/State/Zin:	Company Address:	Company Name	Project Manager:	The Environmental Lab of Texas
Date	M 3/24 Date	ransfer. Date								Background -1 BG -1	FIELD CODE	C	Þ		432.520.7720	Minialin, Texas rerus	Midland Taxas 70703	2057 Commerce Drive	TRC Environmental Corporation	Nikki Green	35
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000	ty se ty se Sam	e Co Free	aton								SAR / ESP / CEC		TOTAL:		Sta	9.1					70
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np:	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ?	Sample Containers Intact? VOCs Free of Headspace? Labels on container(s)	Laboratory Comments:						1.1.01	101	Semivolatiles	1		Analyze For:				Lea		Con	432-
	r(s)	ce?	"_							×	BTEX 80219/5030 or BTEX 82	260		2				Co		npre	563
7	(s)									-	RCI	_			TRRP			unty		SSC	Phone: 432-563-1800 Fax: 432-563-1713
-						-					N.O.R.M.	_	-		0			Lea County, NM		A14 Compressor Station	30
F										×	Chlorides E 300.1	_	-					7		tati	
R ID:	~~~~	***		-				-												on	-
IR ID:R-8 oldi				-		1	-	-		-	DUCUTAT			Ч	NPDES						
19B	ZZZZ	ZZZ						1.1		1.1	RUSH TAT (Pre-Schedule) 24	48,	72 hrs		IT CO						

Page 14 of 15



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/24/2017 02:55:00 PM Temperature Measuring device used : R8 Work Order #: 549418 Comments Sample Receipt Checklist 2.2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seal present on shipping container/ cooler? N/A #5 *Custody Seals intact on shipping container/ cooler? N/A N/A #6 Custody Seals intact on sample bottles? #7 *Custody Seals Signed and dated? N/A #8 *Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 VOC samples have zero headspace? N/A #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica WAMER Jessica Kramer Checklist reviewed by: Kelsey Brooks

Date: 03/24/2017

Date: 03/27/2017



Project Id:TRC#273818Contact:Nikki GreenProject Location:Lea County, NM

Certificate of Analysis Summary 553892

TRC Solutions, Inc, Midland, TX

Project Name: A14 Compressor Station Sump



Date Received in Lab:Wed May-24-17 04:10 pmReport Date:30-MAY-17Project Manager:Liz Givens

	Lab Id:	553892-001			
Analysis Pogyostod	Field Id:	Hydrovac Solids			
Analysis Requested	Depth:				
	Matrix:	SOIL			
	Sampled:	May-23-17 11:30			
BTEX by EPA 8021B	Extracted:	May-25-17 08:00			
	Analyzed:	May-25-17 10:02			
	Units/RL:	mg/kg RL			
Benzene		<0.00201 0.00201			
Toluene		<0.00201 0.00201			
Ethylbenzene		<0.00201 0.00201			
m,p-Xylenes		<0.00402 0.00402			
o-Xylene		<0.00201 0.00201			
Total Xylenes		<0.00201 0.00201			
Total BTEX		<0.00201 0.00201			
Chloride by EPA 300	Extracted:	May-26-17 08:00			
	Analyzed:	May-26-17 09:24			
	Units/RL:	mg/kg RL			
Chloride		52.5 4.93			
TPH by SW8015 Mod	Extracted:	May-26-17 17:00			
	Analyzed:	May-27-17 13:45			
	Units/RL:	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons	·	<15.0 15.0			
C10-C28 Diesel Range Organics		187 15.0			
C28-C35 Oil Range Hydrocarbons		265 15.0			
Total TPH		452 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Brand Retinsen

Brandi Ritcherson Project Manager

Analytical Report 553892

for TRC Solutions, Inc

Project Manager: Nikki Green

A14 Compressor Station Sump

TRC#273818

30-MAY-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



30-MAY-17



Project Manager: **Nikki Green TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **553892** A14 Compressor Station Sump Project Address: Lea County, NM

Nikki Green:

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) 553892. 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. 553892 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Mand

Brandi Ritcherson Project Manager

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Sample Cross Reference 553892



TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Hydrovac Solids	S	05-23-17 11:30		553892-001



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A14 Compressor Station Sump

Project ID:TRC#273818Work Order Number(s):553892

Report Date:30-MAY-17Date Received:05/24/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3018244 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:Hydrovac SolidsLab Sample Id:553892-001		Matrix: Date Collec	Soil cted: 05.23.17 11.30	Date Received:05.24.17 16.10					
Analytical Method: Chloride by EP Tech: MGO Analyst: MGO Seq Number: 3018325	A 300	Date Prep:	05.26.17 08.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	52.5	4.93	mg/kg	05.26.17 09.24		1		
Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3018367	5 Mod	Date Prep:	05.26.17 17.00		Prep Method: TX % Moisture: Basis: We	1005P t Weight			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.27.17 13.45	U	1		
C10-C28 Diesel Range Organics	C10C28DRO	187	15.0	mg/kg	05.27.17 13.45		1		
C28-C35 Oil Range Hydrocarbons	PHCG2835	265	15.0	mg/kg	05.27.17 13.45		1		
Total TPH	PHC635	452	15.0	mg/kg	05.27.17 13.45		1		

tal TPH	PHC635	452	15.0		mg/kg	05.27.17 13.45		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	05.27.17 13.45		
o-Terphenyl		84-15-1	110	%	70-135	05.27.17 13.45		





TRC Solutions, Inc, Midland, TX

A14 Compressor Station Sump

Sample Id:Hydrovac SolidsLab Sample Id:553892-001	Matrix: Soil Date Collected: 05.23.17 11.30	Date Received:05.24.17 16.10
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3018244	Date Prep: 05.25.17 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.25.17 10.02	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.25.17 10.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	80-120	05.25.17 10.02		
1,4-Difluorobenzene		540-36-3	86	%	80-120	05.25.17 10.02		



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
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



QC Summary 553892

TRC Solutions, Inc

A14 Compressor Station Sump

Analytical Method:	Chloride by EPA 300	0						Pr	ep Metho	d: E30	OP	
Seq Number:	3018325 Matrix				Solid Date Prep:					ep: 05.2	6.17	
MB Sample Id:	725214-1-BLK		LCS Sar	nple Id:	725214-1-	BKS		LCSI	O Sample	Id: 7252	214-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3018325			Matrix:	Soil				Date Pre	ep: 05.2	6.17	
Parent Sample Id:	553892-001		MS Sar	nple Id:	553892-00	01 S		MS	D Sample	e Id: 5538	392-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.5	247	301	101	302	101	90-110	0	20	mg/kg	05.26.17 09:32	

Analytical Method:	Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P												
Seq Number:	3018367			Matrix: Solid					Date Prep: 05.26.17				
MB Sample Id:	725298-1-	725298-1-BLKLCS Sample Id:725298-1-BKSLCSD Sample Id:							e Id: 7252	298-1-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 H	ydrocarbons	<15.0	1000	1010	101	1110	111	70-135	9	35	mg/kg	05.27.17 13:04	
C10-C28 Diesel Range	Organics	<15.0	1000	1030	103	1070	107	70-135	4	35	mg/kg	05.27.17 13:04	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		118		1	05		120		70	-135	%	05.27.17 13:04	
o-Terphenyl		117		1	04		117		70	-135	%	05.27.17 13:04	

Analytical Method:				Pr	ep Meth	od: TX1	.005P						
Seq Number:	3018367				Matrix: Soil				Date Prep: 05.26.17				
Parent Sample Id:	MS Sample Id: 553892-001 S			MSD Sample Id: 553892-001 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 H	ydrocarbons	<15.0	999	981	98	1030	103	70-135	5	35	mg/kg	05.27.17 14:06	
C10-C28 Diesel Range	Organics	187	999	1130	94	1150	96	70-135	2	35	mg/kg	05.27.17 14:06	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	00		118		70	-135	%	05.27.17 14:06	
o-Terphenyl					76		108		70	-135	%	05.27.17 14:06	



TRC Solutions, Inc

A14 Compressor Station Sump

Analytical Method:	BTEX by EPA 802	1B						P	rep Meth	od: SW3	5030B	
Seq Number:	3018244		Matrix: Solid					Date Prep: 05.25.17				
MB Sample Id:	725225-1-BLK		LCS San	725225-1-	725225-1-BKS L			LCSD Sample Id: 725225-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0826	83	0.0767	76	70-130	7	35	mg/kg	05.25.17 07:20	
Toluene	< 0.00201	0.100	0.0823	82	0.0810	80	70-130	2	35	mg/kg	05.25.17 07:20	
Ethylbenzene	< 0.00201	0.100	0.0915	92	0.0810	80	71-129	12	35	mg/kg	05.25.17 07:20	
m,p-Xylenes	< 0.00402	0.201	0.177	88	0.165	82	70-135	7	35	mg/kg	05.25.17 07:20	
o-Xylene	< 0.00201	0.100	0.0865	87	0.0803	80	71-133	7	35	mg/kg	05.25.17 07:20	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	93		1	15		101		80)-120	%	05.25.17 07:20	
4-Bromofluorobenzene	92		1	18		101		80	0-120	%	05.25.17 07:20	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3018244 553764-001	lB	Matrix: Soil MS Sample Id: 553764-001 S						Prep Method: SW5030B Date Prep: 05.25.17 MSD Sample Id: 553764-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Benzene	< 0.00201	0.100	0.0527	53	0.0647	65	70-130	20	35	mg/kg	05.25.17 07:52	Х		
Toluene	< 0.00201	0.100	0.0553	55	0.0688	69	70-130	22	35	mg/kg	05.25.17 07:52	Х		
Ethylbenzene	< 0.00201	0.100	0.0562	56	0.0640	64	71-129	13	35	mg/kg	05.25.17 07:52	Х		
m,p-Xylenes	< 0.00402	0.201	0.102	51	0.125	63	70-135	20	35	mg/kg	05.25.17 07:52	Х		
o-Xylene	< 0.00201	0.100	0.0543	54	0.0658	66	71-133	19	35	mg/kg	05.25.17 07:52	Х		
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date			
1,4-Difluorobenzene			10	00		100		80	-120	%	05.25.17 07:52			
4-Bromofluorobenzene			1	17		118		80	-120	%	05.25.17 07:52			

Relinquished by	Relinquished by	Relinquished by	Special Bill to R						Π		LAB # (lab use only)	ORDER #:	(lab use only)								The Env
hed by:	NUU ALL	held by:	Special Instructions: Bill to Rose Slade at Energy Transfer.						нуаг	Linder	FE	500	37		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	The Environmental Lab of Texas
al ur	1		ransfer.						Hydrovac solids		FIELD CODE	1	1892		MUM	432.520.7720	Midland, Texas 79703	2057 Commerce Drive	TRC Environmental Corporation	Nikki Green	8
Dale	Date	Date													1 AL	-	; 79703	e Drive	ental Corpor		
16	= (5										Beginning Depth	1			Le				ation		
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											Field Filtered	1			-						
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					-		+	++	-	_	TPH: TX 1005 TX 1006	-				nat:	PO #:	t Lo	Project #:	Vame	
	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ?	VOCs Free of Headspace? Labels on container(s)	Laboratory Comments: Sample Containers Intact?	-	-		+			-+	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity)		-			_	*	1		6	
y Co	ody : ole F y Sa	s Fre	ple C		-		++	++		-	SAR / ESP / CEC		TOTAL:			¥ St					
urier	tody seals on container tody seals on cooler(s) nple Hand Delivered by Sampler/Client Rep. ?	e of	onta			- 0	++		++	-	Metals: As Ag Ba Cd Cr Pb Hg S	Se	1			Standard				A1	Pho
2	s on Del	Heat	iner	Corrected Temp:	~	Temp: 0.200	++	++		+	Volatiles	1		Analyze For:		ard				4 C	Phone: 432-563-1800 Fax: 432-563-1713
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Ê				np:	(6-23: +0.2°C)	ju j					N.O.R.M.					RP		Lea County, NM	TRC #: 273818	Sta	300
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JEx	××××	\prec	~	in		Ī							21							Su	
Lon				5		IR ID:R-8						_				NPDES				du	
Lone Star	ZZZZ	ZZ	z			'n				-	RUSH TAT (Pre-Schedule) 24,	48,	72 hrs			ES					
222						8			×		Standard 3-Day TAT							1.		L.	

Final 1.000



XENCO Laboratories



EDRATORIES Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 05/24/2017 04:10:00 PM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 553892	Temperature Measuring device used : r8						
Sample Recei	ot Checklist Comments						
#1 *Temperature of cooler(s)?	1.6						
#2 *Shipping container in good condition?	Yes						
#3 *Samples received on ice?	Yes						
#4 *Custody Seal present on shipping container/ cooler?	N/A						
#5 *Custody Seals intact on shipping container/ cooler?	N/A						
#6 Custody Seals intact on sample bottles?	N/A						
#7 *Custody Seals Signed and dated?	N/A						
#8 *Chain of Custody present?	Yes						
#9 Sample instructions complete on Chain of Custody?	Yes						
#10 Any missing/extra samples?	No						
#11 Chain of Custody signed when relinquished/ received?	Yes						
#12 Chain of Custody agrees with sample label(s)?	Yes						
#13 Container label(s) legible and intact?	Yes						
#14 Sample matrix/ properties agree with Chain of Custody?	Yes						
#15 Samples in proper container/ bottle?	Yes						
#16 Samples properly preserved?	Yes						
#17 Sample container(s) intact?	Yes						
#18 Sufficient sample amount for indicated test(s)?	Yes						
#19 All samples received within hold time?	Yes						
#20 Subcontract of sample(s)?	N/A						
#21 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: Marithza Anaya

Date: 05/24/2017

Checklist reviewed by: Hely Taylor Holly Taylor

Date: 05/26/2017



Project Id:TRC#273818Contact:Nikki GreenProject Location:Lea County, NM

Certificate of Analysis Summary 553893

TRC Solutions, Inc, Midland, TX

Engon ATON

Project Name: A-14 Compressor Station Sump

Date Received in Lab:Wed May-24-17 04:10 pmReport Date:30-MAY-17Project Manager:Liz Givens

	Lab Id:	553893-001			
An aluaia Done ontod	Field Id:	BH-1@ 8"			
Analysis Requested	Depth:	8 In			
	Matrix:	SOIL			
	Sampled:	May-23-17 11:25			
BTEX by EPA 8021B	Extracted:	May-25-17 08:00			
	Analyzed:	May-25-17 10:36			
	Units/RL:	mg/kg RL			
Benzene		<0.00353 0.00353			
Toluene		<0.00353 0.00353			
Ethylbenzene		<0.00353 0.00353			
m,p-Xylenes		<0.00707 0.00707			
o-Xylene		<0.00353 0.00353			
Total Xylenes		<0.00353 0.00353			
Total BTEX		< 0.00353 0.00353			
Chloride by EPA 300	Extracted:	May-26-17 08:00			
	Analyzed:	May-26-17 09:47			
	Units/RL:	mg/kg RL			
Chloride		8.06 4.98			
TPH by SW8015 Mod	Extracted:	May-26-17 17:00			
	Analyzed:	May-27-17 14:48			
	Units/RL:	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		<15.0 15.0			
C10-C28 Diesel Range Organics		203 15.0			
C28-C35 Oil Range Hydrocarbons		303 15.0			
Total TPH		506 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brand Retinson

Brandi Ritcherson Project Manager

Analytical Report 553893

for TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Compressor Station Sump

TRC#273818

30-MAY-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



30-MAY-17



Project Manager: Nikki Green TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **553893** A-14 Compressor Station Sump Project Address: Lea County, NM

Nikki Green:

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) 553893. 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. 553893 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

nand

Brandi Ritcherson Project Manager

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Sample Id BH-1@ 8" Sample Cross Reference 553893



TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Mat	rix Dat	e Collected Sa	ample Depth	Lab Sample Id
\$	S 05-2	23-17 11:25	- 8 In	553893-001

Page 4 of 12



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A-14 Compressor Station Sump

Project ID:TRC#273818Work Order Number(s):553893

 Report Date:
 30-MAY-17

 Date Received:
 05/24/2017

Sample receipt non conformances and comments:

5/30/17: 1.001 corrected project name.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3018244 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id: BH-1@ 8" Lab Sample Id: 553893-001		Date Received:05.2 Sample Depth: 8		0			
Analytical Method: Chloride by E	EPA 300				Prep Method: E30)0P	
Tech: MGO					% Moisture:		
Analyst: MGO		Date Prep:	05.26.17 08.00		Basis: We	t Weight	
Seq Number: 3018325							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.06	4.98	mg/kg	05.26.17 09.47		1
Analytical Method: TPH by SW8	015 Mod				Prep Method: TX	1005P	
Tech: ARM					% Moisture:		
Analyst: ARM		Date Prep:	05.26.17 17.00		Basis: We	t Weight	
Seq Number: 3018367							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	mg/kg	05.27.17 14.48	U	1

co-cro Gasonne Range Tryarocarbons	THEOTO	<15.0	15.0		mg/kg	03.27.17 14.46	0	1	
C10-C28 Diesel Range Organics	C10C28DRO	203	15.0		mg/kg	05.27.17 14.48		1	
C28-C35 Oil Range Hydrocarbons	PHCG2835	303	15.0		mg/kg	05.27.17 14.48		1	
Total TPH	PHC635	506	15.0		mg/kg	05.27.17 14.48		1	
			%						
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	99	%	70-135	05.27.17 14.48			
o-Terphenyl		84-15-1	102	%	70-135	05.27.17 14.48			





TRC Solutions, Inc, Midland, TX

A-14 Compressor Station Sump

Sample Id: BH-1@ 8" Lab Sample Id: 553893-001	Matrix:	Soil	Date Received	d:05.24.17 16.10
	Date Collecte	ed: 05.23.17 11.25	Sample Depth	h:8 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3018244	Date Prep:	05.25.17 08.00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
Toluene	108-88-3	< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
Ethylbenzene	100-41-4	< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
m,p-Xylenes	179601-23-1	< 0.00707	0.00707		mg/kg	05.25.17 10.36	U	1
o-Xylene	95-47-6	< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
Total Xylenes	1330-20-7	< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
Total BTEX		< 0.00353	0.00353		mg/kg	05.25.17 10.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	80-120	05.25.17 10.36		
4-Bromofluorobenzene		460-00-4	113	%	80-120	05.25.17 10.36		



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 LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220 (214) 902 0300 (214) 32	51-9139
5332 Blackberry Drive, San Antonio TX 78238 (210) 509-3334 (210) 50	09-3335
1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 5	53-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282 (602) 437-0330	



QC Summary 553893

TRC Solutions, Inc

A-14 Compressor Station Sump

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	d: E30	0P		
Seq Number:	3018325	3018325			Matrix: Solid				Date Prep: 05.26.17				
MB Sample Id:	725214-1-BLK	LCS Sar	LCS Sample Id: 725214-1-BKS				LCSI	D Sample	Id: 7252	214-1-BSD			
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag	
	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P		
Seq Number:	3018325	3018325			Matrix: Soil					Date Prep: 05.26.17			
Parent Sample Id:	553892-001		MS Sar	MS Sample Id: 553892-001 S					MSD Sample Id: 553892-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	52.5	247	301	101	302	101	90-110	0	20	mg/kg	05.26.17 09:32		

Analytical Method:	TPH by S	W8015 M	od						Pı	ep Meth	od: TX1	005P	
Seq Number:	3018367				Matrix:	Solid				Date Pr	ep: 05.2	6.17	
MB Sample Id:	725298-1-	BLK		LCS Sar	nple Id:	725298-1	-BKS		LCS	D Sample	e Id: 7252	298-1-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 Hy	ydrocarbons	<15.0	1000	1010	101	1110	111	70-135	9	35	mg/kg	05.27.17 13:04	
C10-C28 Diesel Range	Organics	<15.0	1000	1030	103	1070	107	70-135	4	35	mg/kg	05.27.17 13:04	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		118		1	05		120		70	-135	%	05.27.17 13:04	
o-Terphenyl		117		1	04		117		70	-135	%	05.27.17 13:04	

Analytical Method:	lod						Prep Method: TX1005P						
Seq Number:	3018367				Matrix:	Soil				Date Pr	ep: 05.2	6.17	
Parent Sample Id:	553892-00	MS Sample Id: 553892-001 S MSD Sample Id: 553892-001 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 Hy	ydrocarbons	<15.0	999	981	98	1030	103	70-135	5	35	mg/kg	05.27.17 14:06	
C10-C28 Diesel Range	Organics	187	999	1130	94	1150	96	70-135	2	35	mg/kg	05.27.17 14:06	
Surrogate					AS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	00		118		70	-135	%	05.27.17 14:06	
o-Terphenyl				,	76		108		70	-135	%	05.27.17 14:06	



TRC Solutions, Inc

A-14 Compressor Station Sump

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3018244 725225-1-BLK	1B	Matrix: Solid LCS Sample Id: 725225-1-BK				Prep Method: SW5030B Date Prep: 05.25.17 BKS LCSD Sample Id: 725225-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0826	83	0.0767	76	70-130	7	35	mg/kg	05.25.17 07:20	
Toluene	< 0.00201	0.100	0.0823	82	0.0810	80	70-130	2	35	mg/kg	05.25.17 07:20	
Ethylbenzene	< 0.00201	0.100	0.0915	92	0.0810	80	71-129	12	35	mg/kg	05.25.17 07:20	
m,p-Xylenes	< 0.00402	0.201	0.177	88	0.165	82	70-135	7	35	mg/kg	05.25.17 07:20	
o-Xylene	< 0.00201	0.100	0.0865	87	0.0803	80	71-133	7	35	mg/kg	05.25.17 07:20	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	93		1	15		101		80)-120	%	05.25.17 07:20	
4-Bromofluorobenzene	92		1	18		101		80)-120	%	05.25.17 07:20	

Analytical Method:	BTEX by EPA 802	1B						P	rep Meth	od: SW3	5030B	
Seq Number:	3018244]	Matrix:	Soil				Date Pr	ep: 05.2	5.17	
Parent Sample Id:	553764-001		MS San	nple Id:	553764-00	01 S		MS	D Sample	e Id: 5537	764-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0527	53	0.0647	65	70-130	20	35	mg/kg	05.25.17 07:52	Х
Toluene	< 0.00201	0.100	0.0553	55	0.0688	69	70-130	22	35	mg/kg	05.25.17 07:52	Х
Ethylbenzene	< 0.00201	0.100	0.0562	56	0.0640	64	71-129	13	35	mg/kg	05.25.17 07:52	Х
m,p-Xylenes	< 0.00402	0.201	0.102	51	0.125	63	70-135	20	35	mg/kg	05.25.17 07:52	Х
o-Xylene	< 0.00201	0.100	0.0543	54	0.0658	66	71-133	19	35	mg/kg	05.25.17 07:52	Х
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		100		80)-120	%	05.25.17 07:52	
4-Bromofluorobenzene			1	17		118		80)-120	%	05.25.17 07:52	

Kelinquisned by:	Relinquished by Relinquished by	Special I							LAB # (lab use only)	ORDER #:	(lab use only)							The Environmer
nea by:	Maril Ju	Special Instructions: Bill to Rose Slade at Energy Transfer						BH	Ē		27	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ACTICO LADOFA
C	ten 4	anefor						BH-1 @ 8"	FIELD CODE	0	2002	MMM	432.520.7720	Midland, Texas 79703	2057 Commerce Drive	TRC Environmental Corporation	Nikki Green	LADOFALOFIES
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Temperature Upon Receipt:	VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DH	Laboratory Comments: Sample Containers Intact?	Corrected Temp:	CF:(0-6: -0.2°C) (6-23: +0.2°C)					Semivolatiles			Analyze For:			-	=	om	IALYSIS REQUEST Phone: 432-563-1800 Fax: 432-563-1713
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Final 1.001



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/24/2017 04:10:00 PM Temperature Measuring device used : r8 Work Order #: 553893 Comments Sample Receipt Checklist 1.6 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seal present on shipping container/ cooler? N/A #5 *Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A #7 *Custody Seals Signed and dated? N/A #8 *Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes Yes #16 Samples properly preserved? #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 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:

Martza Anaya Marithza Anaya

Date: 05/24/2017

Checklist reviewed by:

Holly Taylor

Date: 05/26/2017



Project Id:Contact:Nikki GreenProject Location:Lea County, NM



TRC Solutions, Inc, Midland, TX Project Name: A-14 Sump



Date Received in Lab:Wed Jun-21-17 08:40 amReport Date:26-JUN-17Project Manager:Kelsey Brooks

	Lab Id:	555846-0	001	555846-0	002	555846-0	003		
Anglusia Degregated	Field Id:	BH-6 6	5"	BH-7 6	5"	BH-2 6	"		
Analysis Requested	Depth:	6- In		6- In		6- In			
	Matrix:	SOIL	,	SOIL		SOIL			
	Sampled:	Jun-15-17	16:00	Jun-15-17	16:10	Jun-16-17 1	11:00		
BTEX by EPA 8021B	Extracted:	Jun-24-17	11:30	Jun-24-17	11:30	Jun-24-17 1	1:30		
	Analyzed:	Jun-25-17 (05:48	Jun-25-17 (06:04	Jun-25-17 (06:20		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
m,p-Xylenes		< 0.00402	0.00402	< 0.00399	0.00399	< 0.00397	0.00397		
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198		
Chloride by EPA 300	Extracted:	Jun-26-17	10:05	Jun-26-17	10:05	Jun-26-17 1	0:05		
	Analyzed:	Jun-26-17	12:20	Jun-26-17	12:28	Jun-26-17 1	2:51		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		8.45	4.96	5.85	4.93	32.4	4.99		
TPH by SW8015 Mod	Extracted:	Jun-24-17	16:00	Jun-24-17	16:00	Jun-24-17 1	6:00		
	Analyzed:	Jun-25-17 (05:08	Jun-25-17 (05:29	Jun-25-17 ()6:33		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons	·	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics		97.1	15.0	109	15.0	<15.0	15.0		
Oil Range Hydrocarbons		63.2	15.0	122	15.0	<15.0	15.0		
Total TPH		160	15.0	231	15.0	<15.0	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

Kelsey Brooks Project Manager

Analytical Report 555846

for TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Sump

26-JUN-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



26-JUN-17



Project Manager: **Nikki Green TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **555846** A-14 Sump Project Address: Lea County, NM

Nikki Green:

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) 555846. 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. 555846 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Sample Cross Reference 555846



TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-6 6"	S	06-15-17 16:00	6 In	555846-001
BH-7 6"	S	06-15-17 16:10	6 In	555846-002
BH-2 6"	S	06-16-17 11:00	6 In	555846-003



Client Name: TRC Solutions, Inc Project Name: A-14 Sump

Project ID: Work Order Number(s): 555846
 Report Date:
 26-JUN-17

 Date Received:
 06/21/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3020665 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





TRC Solutions, Inc, Midland, TX

Sample Id:	BH-6 6''		Matrix:	Soil]	Date Received:06.	21.17 08.40	0
Lab Sample I	ld: 555846-001		Date Collec	cted: 06.15.17 16.00	2	Sample Depth: 6 In	l	
Analytical M	ethod: Chloride by EP	A 300]	Prep Method: E30	0P	
Tech:	MGO				0	% Moisture:		
Analyst:	MGO		Date Prep:	06.26.17 10.05]	Basis: We	t Weight	
Seq Number:	3020684							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	8.45	4.96	mg/kg	06.26.17 12.20		1

Analytical Method: TPH by SW8015	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 06.24	17 16.00	E	Basis: We	t Weight	
Seq Number: 3020771								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.25.17 05.08	U	1
Diesel Range Organics	C10C28DRO	97.1	15.0		mg/kg	06.25.17 05.08		1
Oil Range Hydrocarbons	PHCG2835	63.2	15.0		mg/kg	06.25.17 05.08		1
Total TPH	PHC635	160	15.0		mg/kg	06.25.17 05.08		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	06.25.17 05.08		
o-Terphenyl		84-15-1	104	%	70-135	06.25.17 05.08		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-6 6'' Lab Sample Id: 555846-001	Matrix: Soil Date Collected: 06.15.17 16.00	Date Received:06.21.17 08.40 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3020665	Date Prep: 06.24.17 11.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.25.17 05.48	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.25.17 05.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	84	%	80-120	06.25.17 05.48		
4-Bromofluorobenzene		460-00-4	91	%	80-120	06.25.17 05.48		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-7 6"		Matrix:	Soil		Date Received:06	5.21.17 08.4	0
Lab Sample Id: 555846-002		Date Colle	cted: 06.15.17 16.10		Sample Depth: 6	In	
Analytical Method: Chloride by EPA	300				Prep Method: E3	300P	
Tech: MGO					% Moisture:		
Analyst: MGO		Date Prep:	06.26.17 10.05		Basis: W	et Weight	
Seq Number: 3020684							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.85	4.93	mg/kg	06.26.17 12.28		1

Analytical Method: TPH by SW8 Tech: ARM Analyst: ARM Seq Number: 3020771	Date Pre	p: 06.24	17 16.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.25.17 05.29	U	1
Diesel Range Organics	C10C28DRO	109	15.0		mg/kg	06.25.17 05.29		1
Oil Range Hydrocarbons	PHCG2835	122	15.0		mg/kg	06.25.17 05.29		1
Total TPH	PHC635	231	15.0		mg/kg	06.25.17 05.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	110	%	70-135	06.25.17 05.29		
o-Terphenyl	8	34-15-1	107	%	70-135	06.25.17 05.29		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-7 6'' Lab Sample Id: 555846-002	Matrix: Soil Date Collected: 06.15.17 16.10	Date Received:06.21.17 08.40 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJ	Date Prep: 06.24.17 11.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3020665		

Parameter	Cas Number	Result	Result RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.25.17 06.04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.25.17 06.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	80-120	06.25.17 06.04		
1,4-Difluorobenzene		540-36-3	88	%	80-120	06.25.17 06.04		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-2 6"		Matrix:	Soil		Date Received	1:06.21.17 08.40)	
Lab Sample Id: 555846-003		Date Collecte	d: 06.16.17 11.00		Sample Depth: 6 In			
Analytical Method: Chloride by EPA Tech: MGO	300				Prep Method: % Moisture:	E300P		
Analyst: MGO		Date Prep:	06.26.17 10.05		Basis:	Wet Weight		
Seq Number: 3020684								
Parameter	Cas Number	Result F	RL	Units	Analysis D	ate Flag	Dil	

Chloride	16887-00-6	32.4	4.99	mg/kg	06.26.17 12.51	1

Analytical Method: TPH by SW8015	5 Mod				F	Prep Method: TX	1005P			
Tech: ARM					9	6 Moisture:				
Analyst: ARM		Date Pre	p: 06.24.	17 16.00	E	Basis: We	Wet Weight			
Seq Number: 3020771										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.25.17 06.33	U	1		
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.25.17 06.33	U	1		
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.25.17 06.33	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	06.25.17 06.33	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	108	%	70-135	06.25.17 06.33				
o-Terphenyl		84-15-1	106	%	70-135	06.25.17 06.33				





TRC Solutions, Inc, Midland, TX

Sample Id: BH-2 6'' Lab Sample Id: 555846-003	Matrix: Soil Date Collected: 06.16.17 11.00	Date Received:06.21.17 08.40 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3020665	Date Prep: 06.24.17 11.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	Result RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.25.17 06.20	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.25.17 06.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	84	%	80-120	06.25.17 06.20		
1,4-Difluorobenzene		540-36-3	87	%	80-120	06.25.17 06.20		



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
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



QC Summary 555846

TRC Solutions, Inc

Analytical Method:	Chloride by EPA 30)0						Pr	ep Metho	od: E30	0P	
Seq Number:	3020684			Matrix:	Solid Date Prep:				ep: 06.2	06.26.17		
MB Sample Id:	726721-1-BLK		LCS Sar	nple Id:	726721-1-	726721-1-BKS LCSD Sample Id:			e Id: 726'	Id: 726721-1-BSD		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	< 5.00	250	247	99	248	99	90-110	0	20	mg/kg	06.26.17 10:21	

Analytical Method:	Chloride by EPA 30)0						Pr	ep Metho	d: E30)P		
Seq Number:	3020684 M			Matrix:	Soil	Soil Date Prep:				ep: 06.2	06.26.17		
Parent Sample Id:	555846-002	MS Sample Id: 555846-002 S MSD Sample Id				Id: 5558	346-002 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	5.85	247	245	97	244	96	90-110	0	20	mg/kg	06.26.17 12:36		

Analytical Method:	Chloride by EPA 300							Pr	ep Metho	d: E30	E300P	
Seq Number:	3020684	Matrix: Soil					Date Prep: 06.26.17					
Parent Sample Id:	556064-003	MS Sar	MS Sample Id: 556064-003 S				MSD Sample Id: 556064-003 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.6	246	261	99	259	99	90-110	1	20	mg/kg	06.26.17 10:49	

Analytical Method: TPH by SW8015 Mod							Prep Method: TX1005P						
Seq Number:	q Number: 3020771			Matrix: Solid				Date Prep: 06.24.17					
MB Sample Id:	726685-1-BLK	LCS Sar	nple Id:	726685-1-BKS			LCSD Sample Id: 726685-1-BSD						
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydroc	arbons <15.0	1000	992	99	1020	102	70-135	3	35	mg/kg	06.25.17 00:55		
Diesel Range Organics	<15.0	1000	1010	101	979	98	70-135	3	35	mg/kg	06.25.17 00:55		
Surrogate	MB %Rec	MB Flag	LCS %Rec		LCS Flag	LCSI %Re					Analysis Date		
1-Chlorooctane	113		1	08		114		70)-135	%	06.25.17 00:55		
o-Terphenyl	122		1	00		107		70)-135	%	06.25.17 00:55		



QC Summary 555846

TRC Solutions, Inc

A-14 Sump

1	3020771 Matrix: Soil Date Prep: 06.24.17							4.17				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	997	1060	106	974	98	70-135	8	35	mg/kg	06.25.17 01:58	
Diesel Range Organics	<15.0	997	998	100	987	99	70-135	1	35	mg/kg	06.25.17 01:58	
Surrogate				1S Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1-Chlorooctane			1	07		100		70	-135	%	06.25.17 01:58	
o-Terphenyl			1	01		98		70	-135	%	06.25.17 01:58	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3020665 726706-1-BLK	lB		Matrix: nple Id:	Solid 726706-1	-BKS			rep Meth Date Pr D Sample	ep: 06.2	5030B 4.17 706-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.107	107	0.0950	96	70-130	12	35	mg/kg	06.25.17 03:55	
Toluene	< 0.00200	0.100	0.101	101	0.0876	88	70-130	14	35	mg/kg	06.25.17 03:55	
Ethylbenzene	< 0.00200	0.100	0.111	111	0.0966	97	71-129	14	35	mg/kg	06.25.17 03:55	
m,p-Xylenes	< 0.00401	0.200	0.200	100	0.173	87	70-135	14	35	mg/kg	06.25.17 03:55	
o-Xylene	< 0.00200	0.100	0.106	106	0.0914	92	71-133	15	35	mg/kg	06.25.17 03:55	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	99		ç	9 0		93		80)-120	%	06.25.17 03:55	
4-Bromofluorobenzene	98		9	93		92		80)-120	%	06.25.17 03:55	

Analytical Method: Seq Number: Parent Sample Id:				Matrix: Soil MS Sample Id: 556138-002 S				P: MS				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0785	79	0.0898	90	70-130	13	35	mg/kg	06.25.17 04:27	
Toluene	< 0.00200	0.100	0.0785	79	0.0795	80	70-130	1	35	mg/kg	06.25.17 04:27	
Ethylbenzene	< 0.00200	0.100	0.0770	77	0.0764	76	71-129	1	35	mg/kg	06.25.17 04:27	
m,p-Xylenes	0.00688	0.200	0.144	69	0.135	64	70-135	6	35	mg/kg	06.25.17 04:27	Х
o-Xylene	< 0.00200	0.100	0.0771	77	0.0762	76	71-133	1	35	mg/kg	06.25.17 04:27	
Surrogate			M %I		MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			11	12		112		80)-120	%	06.25.17 04:27	
4-Bromofluorobenzene			11	16		112		80)-120	%	06.25.17 04:27	

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CHAIN OF CUSTODY

Page 1 Of 1

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subconfactors. 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 we be enforced unless previously negoliated under a fully executed client contract. 2057 Commerce Drive Midland, TX 79703 Email: Company Name / Branch: TRC Environmental Corporation Samplers's Name Nikki Green Project Contact: Company Address: ose.slade@energytransfer.con Relinquished by Sa Same Day TAT Relinquished by: ngreen@trcsolutions.com Dallas Texas (214-902-0300) Relinquished by: TAT Starts Day received by Lab, if received by 5:00 pm **3 Day EMERGENCY** BH-6 6" 2 Day EMERGENCY Next Day EMERGENCY BH-2 6" BH-7 6" **Client / Reporting Information** Ş Turnaround Time (Business days) Field ID / Point of Colly Contract TAT 1 7 Day TAT 5 Day TAT Phone No: SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY 5 Date Time: PO Number: **Date Time** Date Time: Sample op I o, on A-14 Sump Project Location: Lea County, NM San Antonio, Texas (210-509-3334) Rose Slade, ETC Field Services, San Antonio nvoice To: Project Name/Number: Midland, Texas (432-704-5251) 1 Collection 6/16/2017 6/15/2017 6/15/2017 Date Š TRRP Checklist **Received By: Received By** Received By: 1100 1610 1600 Time **Project Information** Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC Matrix Ś S \$ www.xenco.com **Data Deliverable Information** glass 1-4oz glass 1- 4oz glass # of bottles 1- 402 HCI NaOH/Zn Nu Acetate HNO3 of preserved bottles Relinquished By: Custody Seal # **Relinquished By:** UST / RG -411 TRRP Level IV Level IV (Full Data Pkg /raw data) 12504 NaOH NaHSO4 MEOH ICE × × × Xenco Quote # Phoenix, Arizona (480-355-0900) TPH by Method 8015M × × × Preserved where applicable BTEX by Method 2081B × × × Date Time: Date Time: Chloride by EPA 300.1 × × × Analytical Information FED-EX / UPS: Tracki Notes: INVOICE TO ETC Xenco Job # Received Received Onlee Temp: 3. 7 CF:(0-6: -0.2°C) Corrected Temp: 222 840 (6-23: +0.2°C) Cooler Temp. Field Comments WI = Wipe O = Oil SL = Sludge OW =Ocean/Sea Water P = Product DW = Drinking Water W = Water S = Soil/Sed/Solid WW= Waste Water SW = Surface water GW =Ground Water Thermo, Corr. Factor A = Air Matrix Codes S IR ID:R-8 in

5 9 8 1 0 (J) 4 ω N No.

will

Final 1.000



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 06/21/2017 08:40:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 555846	Temperature Measuring device used : r8
Sample Recei	ot Checklist Comments
#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	N/A
#21 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: Marithza Anaya

Date: 06/21/2017

Checklist reviewed by: Mms Moah Kelsey Brooks

Date: 06/21/2017



Project Id:Contact:Nikki GreenProject Location:Lea County, NM

Certificate of Analysis Summary 556209

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Sump



Date Received in Lab:Fri Jun-23-17 03:33 pmReport Date:28-JUN-17Project Manager:Kelsey Brooks

	Lab Id:	556209-	001	556209-0	002	556209-0	003	556209-	004	556209-	005	556209-0	006
	Field Id:	BH-3	2'	ESW-1	1'	WSW-1	1'	BH-5 6"		BH-4	2'	NSW-1	1'
Analysis Requested	Depth:	2- ft		1- ft		1- ft		6- In		2- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Jun-19-17	Jun-19-17 16:00		16:15	Jun-19-17 16:17		Jun-19-17 16:30		Jun-20-17 10:00		Jun-20-17	10:05
BTEX by EPA 8021B	Extracted:	Jun-27-17	Jun-27-17 15:00		Jun-27-17 15:00 Jun-27-17 15:00		15:00	Jun-27-17 15:00		Jun-27-17 15:00		Jun-27-17	15:00
	Analyzed:	Jun-27-17	21:53	Jun-27-17	22:09	Jun-27-17	22:25	Jun-27-17	22:42	Jun-27-17	22:58	Jun-27-17	23:14
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
m,p-Xylenes		< 0.00402	0.00402	< 0.00399	0.00399	< 0.00400	0.00400	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00398	0.00398
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	Jun-27-17	13:50	Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50		Jun-27-17 13:50	
	Analyzed:	Jun-27-17	22:47	Jun-27-17	22:55	Jun-27-17	23:17	Jun-27-17	23:25	Jun-27-17	23:48	Jun-27-17	23:55
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		48.9	4.96	36.3	4.99	165	4.91	20.0	4.97	65.3	4.98	39.7	4.98
TPH by SW8015 Mod	Extracted:	Jun-26-17	07:00	Jun-26-17	07:00	Jun-26-17	07:00	Jun-26-17	07:00	Jun-26-17	07:00	Jun-26-17	07:00
	Analyzed:	Jun-26-17	11:36	Jun-26-17	12:36	Jun-26-17	12:56	Jun-26-17	13:16	Jun-26-17	13:36	Jun-26-17	13:56
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics		53.3	15.0	25.8	15.0	255	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons		64.7	15.0	<15.0	15.0	66.2	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH		118	15.0	25.8	15.0	321	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Huns Roah

Kelsey Brooks Project Manager

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Project Id:Contact:Nikki GreenProject Location:Lea County, NM

Certificate of Analysis Summary 556209

TRC Solutions, Inc, Midland, TX

Project Name: A-14 Compressor Station Sump



Date Received in Lab:Fri Jun-23-17 03:33 pmReport Date:28-JUN-17Project Manager:Kelsey Brooks

	Lab Id:	556209-0	007	556209-0	008	556209-0)09	556209-	010		
Ameluaia Doguostad	Field Id:	ESW-2	1'	SSW-1	1'	NSW-2	1'	WSW-2	2 1'		
Analysis Requested	Depth:	1- ft		1- ft		1- ft		1- ft			
	Matrix:	SOIL	,	SOIL		SOIL		SOIL			
	Sampled:	Jun-20-17	10:10	Jun-20-17	10:15	Jun-20-17	11:00	Jun-20-17	11:15		
BTEX by EPA 8021B	Extracted:	Jun-27-17	15:00	Jun-27-17	15:00	Jun-27-17	15:00	Jun-27-17	15:00		
	Analyzed:	Jun-27-17	23:30	Jun-27-17	23:46	Jun-28-17 (00:02	Jun-28-17	00:18		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
Toluene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
m,p-Xylenes		< 0.00398	0.00398	< 0.00399	0.00399	< 0.00403	0.00403	< 0.00402	0.00402		
o-Xylene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	Jun-27-17	13:50	Jun-27-17	13:50	Jun-27-17	13:50	Jun-27-17	13:50		
	Analyzed:	Jun-28-17	00:03	Jun-28-17	00:11	Jun-28-17 (00:18	Jun-28-17	00:26		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		64.6	4.97	146	4.97	9.95	4.93	16.7	4.96		
TPH by SW8015 Mod	Extracted:	Jun-26-17	07:00	Jun-26-17	07:00	Jun-26-17 (07:00	Jun-26-17	07:00		
	Analyzed:	Jun-26-17	14:16	Jun-26-17	14:36	Jun-26-17	14:56	Jun-26-17	15:16		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Huns Boah

Kelsey Brooks Project Manager

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Analytical Report 556209

for TRC Solutions, Inc

Project Manager: Nikki Green

A-14 Compressor Station Sump

28-JUN-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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



28-JUN-17



Project Manager: **Nikki Green TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **556209** A-14 Compressor Station Sump Project Address: Lea County, NM

Nikki Green:

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) 556209. 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. 556209 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Id

BH-3 2'
ESW-1 1'
WSW-1 1'
BH-5 6"
BH-4 2'
NSW-1 1'
ESW-2 1'
SSW-1 1'
NSW-2 1'
WSW-2 1'

Sample Cross Reference 556209



Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06-19-17 16:00	2 ft	556209-001
S	06-19-17 16:15	1 ft	556209-002
S	06-19-17 16:17	1 ft	556209-003
S	06-19-17 16:30	6 In	556209-004
S	06-20-17 10:00	2 ft	556209-005
S	06-20-17 10:05	1 ft	556209-006
S	06-20-17 10:10	1 ft	556209-007
S	06-20-17 10:15	1 ft	556209-008
S	06-20-17 11:00	1 ft	556209-009
S	06-20-17 11:15	1 ft	556209-010





CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: A-14 Compressor Station Sump

Project ID: Work Order Number(s): 556209
 Report Date:
 28-JUN-17

 Date Received:
 06/23/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3020931 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 556209-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 556209-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.





TRC Solutions, Inc, Midland, TX

Sample Id: BH-3 2' Lab Sample Id: 556209-001		Matrix: Date Collecte	Soil d: 06.19.17 16.00		Received:06.2 ple Depth: 2 ft	3.17 15.33	
Analytical Method:Chloride by EPATech:MGOAnalyst:MGOSeq Number:3020947	300	Date Prep:	06.27.17 13.50	1	Method: E30 oisture: s: Wet	0P Weight	
Parameter	Cas Number	Result R	L	Units A	analysis Date	Flag	Dil

1 ar anicter	Cas Number	Result	KL	Units	Analysis Date	riag	DII
Chloride	16887-00-6	48.9	4.96	mg/kg	06.27.17 22.47		1

Analytical Method: TPH by SW8	3015 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: Wet	Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 11.36	U	1
Diesel Range Organics	C10C28DRO	53.3	15.0		mg/kg	06.26.17 11.36		1
Oil Range Hydrocarbons	PHCG2835	64.7	15.0		mg/kg	06.26.17 11.36		1
Total TPH	PHC635	118	15.0		mg/kg	06.26.17 11.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	106	%	70-135	06.26.17 11.36		
o-Terphenyl	8	4-15-1	109	%	70-135	06.26.17 11.36		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-3 2' Lab Sample Id: 556209-001	Matrix: Soil Date Collected: 06.19.17 16.00	Date Received:06.23.17 15.33 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.27.17 21.53	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.27.17 21.53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	80-120	06.27.17 21.53		
4-Bromofluorobenzene		460-00-4	115	%	80-120	06.27.17 21.53		





TRC Solutions, Inc, Midland, TX

Sample Id: ESW-1 1' Lab Sample Id: 556209-002		Matrix: Date Collecte	Soil d: 06.19.17 16.15	Date Rece Sample D	eived:06.23.17 15.3 epth: 1 ft	33
Analytical Method: Chloride by EPA Tech: MGO	300			Prep Metl % Moistu	nod: E300P re:	
Analyst: MGO Seg Number: 3020947		Date Prep:	06.27.17 13.50	Basis:	Wet Weight	
Parameter	Cas Number	Result F	L	Units Analys	sis Date Flag	Dil

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.3	4.99	mg/kg	06.27.17 22.55		1

Analytical Method: TPH by SW8015	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 06.26.	17 07.00	E	Basis: We	t Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 12.36	U	1
Diesel Range Organics	C10C28DRO	25.8	15.0		mg/kg	06.26.17 12.36		1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 12.36	U	1
Total TPH	PHC635	25.8	15.0		mg/kg	06.26.17 12.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	06.26.17 12.36		
o-Terphenyl		84-15-1	106	%	70-135	06.26.17 12.36		





TRC Solutions, Inc, Midland, TX

Sample Id:ESW-1 1'Lab Sample Id:556209-002	Matrix: Date Collecte	Soil d: 06.19.17 16.15	Date Receive Sample Dept	ed:06.23.17 15.33 h: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Method % Moisture:	: SW5030B
Analyst: ALJ Seq Number: 3020931	Date Prep:	06.27.17 15.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.27.17 22.09	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.27.17 22.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	80-120	06.27.17 22.09		
1,4-Difluorobenzene		540-36-3	87	%	80-120	06.27.17 22.09		





TRC Solutions, Inc, Midland, TX

Sample Id:WSW-1 1'Lab Sample Id:556209-003		Matrix: Date Collecte	Soil ed: 06.19.17 16.17		eceived:06.2 e Depth: 1 ft		
Analytical Method: Chloride by EPA 3 Tech: MGO Analyst: MGO Seq Number: 3020947	300	Date Prep:	06.27.17 13.50	Prep M % Moi Basis:		00P t Weight	
Parameter	Cas Number	Result J	RL	Units An	alysis Date	Flag	Dil

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	165	4.91	mg/kg	06.27.17 23.17		1

Analytical Method: TPH by SW80	015 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	t Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 12.56	U	1
Diesel Range Organics	C10C28DRO	255	15.0		mg/kg	06.26.17 12.56		1
Oil Range Hydrocarbons	PHCG2835	66.2	15.0		mg/kg	06.26.17 12.56		1
Total TPH	PHC635	321	15.0		mg/kg	06.26.17 12.56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	06.26.17 12.56		
o-Terphenyl	:	84-15-1	110	%	70-135	06.26.17 12.56		





TRC Solutions, Inc, Midland, TX

Sample Id: WSW-1 1' Lab Sample Id: 556209-003	Matrix: Date Collecte	Soil ed: 06.19.17 16.17	Date Receiv Sample Dep	ed:06.23.17 15.33 th: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Methoo % Moisture:	1: SW5030B
Analyst: ALJ Seq Number: 3020931	Date Prep:	06.27.17 15.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.27.17 22.25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.27.17 22.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	80-120	06.27.17 22.25		
1,4-Difluorobenzene		540-36-3	98	%	80-120	06.27.17 22.25		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-5 6'' Lab Sample Id: 556209-004		Matrix: Date Collecte	Soil cd: 06.19.17 16.30	-	Date Received: Sample Depth:	eived:06.23.17 15.33 Depth: 6 In		
Analytical Method: Chloride by EPA Tech: MGO	300				Prep Method: % Moisture:	E300P		
Analyst: MGO Seq Number: 3020947		Date Prep:	06.27.17 13.50			Wet Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil	

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.0	4.97	mg/kg	06.27.17 23.25		1

Analytical Method: TPH by SW8015 Mod						Prep Method: TX1005P				
Tech: ARM					% Moisture:					
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	t Weight			
Seq Number: 3021003										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9		mg/kg	06.26.17 13.16	U	1		
Diesel Range Organics	C10C28DRO	<14.9	14.9		mg/kg	06.26.17 13.16	U	1		
Oil Range Hydrocarbons	PHCG2835	<14.9	14.9		mg/kg	06.26.17 13.16	U	1		
Total TPH	PHC635	<14.9	14.9		mg/kg	06.26.17 13.16	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	102	%	70-135	06.26.17 13.16				
o-Terphenyl	:	84-15-1	104	%	70-135	06.26.17 13.16				





TRC Solutions, Inc, Midland, TX

Sample Id: BH-5 6'' Lab Sample Id: 556209-004	Matrix: Soil Date Collected: 06.19.17 16.30	Date Received:06.23.17 15.33 Sample Depth: 6 In
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.27.17 22.42	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.27.17 22.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	80-120	06.27.17 22.42		
4-Bromofluorobenzene		460-00-4	98	%	80-120	06.27.17 22.42		





TRC Solutions, Inc, Midland, TX

Sample Id: BH-4 2' Lab Sample Id: 556209-005		Matrix: Date Collecte	Soil ed: 06.20.17 10.00				
Analytical Method: Chloride by EF	PA 300				ep Method: E3	00P	
Tech: MGO			06 07 17 10 50		Moisture:		
Analyst: MGO Seq Number: 3020947		Date Prep:	06.27.17 13.50	ва	sis: We	et Weight	
Parameter	Cas Number	Result F	RL	Units	Analysis Date	Flag	Dil

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.3	4.98	mg/kg	06.27.17 23.48		1

Analytical Method: TPH by SW8015 Mod						Prep Method: TX1005P				
Tech: ARM					% Moisture:					
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: Wet	t Weight			
Seq Number: 3021003										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 13.36	U	1		
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 13.36	U	1		
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 13.36	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 13.36	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	104	%	70-135	06.26.17 13.36				
o-Terphenyl		84-15-1	107	%	70-135	06.26.17 13.36				





TRC Solutions, Inc, Midland, TX

Sample Id: BH-4 2' Lab Sample Id: 556209-005	Matrix: Soil Date Collected: 06.20.17 10.00	Date Received:06.23.17 15.33 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.27.17 22.58	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.27.17 22.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	80-120	06.27.17 22.58		
1,4-Difluorobenzene		540-36-3	96	%	80-120	06.27.17 22.58		





TRC Solutions, Inc, Midland, TX

Sample Id: NSW-1 1' Lab Sample Id: 556209-006	•				Date Received:06.23.17 15.33 Sample Depth: 1 ft			
Analytical Method: Chloride by EPA Tech: MGO	. 300			Prep Meth % Moistu	nod: E300P re:			
Analyst: MGO		Date Prep:	06.27.17 13.50	Basis:	Wet Weight			
Seq Number: 3020947 Parameter	Cas Number	Result F	RL	Units Analys	is Date Flag	Dil		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.7	4.98	mg/kg	06.27.17 23.55		1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	t Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 13.56	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 13.56	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 13.56	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 13.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	06.26.17 13.56		
o-Terphenyl		84-15-1	105	%	70-135	06.26.17 13.56		





TRC Solutions, Inc, Midland, TX

Sample Id: NSW-1 1' Lab Sample Id: 556209-006	Matrix: Soil Date Collected: 06.20.17 10.05	Date Received:06.23.17 15.33 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.27.17 23.14	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.27.17 23.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	92	%	80-120	06.27.17 23.14		
4-Bromofluorobenzene		460-00-4	115	%	80-120	06.27.17 23.14		





TRC Solutions, Inc, Midland, TX

Sample Id: ESW-2 1' Lab Sample Id: 556209-007		Matrix: Date Collecte	Soil ed: 06.20.17 10.10		ceived:06.23.17 15. Depth: 1 ft	33
Analytical Method: Chloride by EP Tech: MGO	PA 300			Prep Me % Moist	thod: E300P	
Analyst: MGO Seg Number: 3020947		Date Prep:	06.27.17 13.50	Basis:	Wet Weight	
Parameter	Cas Number	Result I	RL	Units Analy	vsis Date Flag	Dil

rarameter	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.6	4.97	mg/kg	06.28.17 00.03		1

Analytical Method: TPH by SW801:	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 06.26.	17 07.00	E	Basis: We	t Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 14.16	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 14.16	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 14.16	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 14.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	06.26.17 14.16		
o-Terphenyl		84-15-1	106	%	70-135	06.26.17 14.16		





TRC Solutions, Inc, Midland, TX

Sample Id: ESW-2 1' Lab Sample Id: 556209-007	Matrix: Soil Date Collected: 06.20.17 10.10	Date Received:06.23.17 15.33 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.27.17 23.30	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.27.17 23.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	80-120	06.27.17 23.30		
1,4-Difluorobenzene		540-36-3	108	%	80-120	06.27.17 23.30		





TRC Solutions, Inc, Midland, TX

Sample Id: SSW Lab Sample Id: 5562		Matrix: Date Collecte	Soil ed: 06.20.17 10.15		Date Received Sample Depth:	06.23.17 15.33 1 ft	
5	Chloride by EPA 300				Prep Method:	E300P	
Tech: MGC					% Moisture:		
Analyst: MGC		Date Prep:	06.27.17 13.50]	Basis:	Wet Weight	
Seq Number: 3020	47						
Parameter	Cas Number	Result F	RL.	Units	Analysis Da	te Flag	Dil

rarameter	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	146	4.97	mg/kg	06.28.17 00.11		1

Analytical Method: TPH by SW8015	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	% Moisture:		
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	et Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 14.36	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 14.36	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 14.36	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 14.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	06.26.17 14.36		
o-Terphenyl		84-15-1	106	%	70-135	06.26.17 14.36		





TRC Solutions, Inc, Midland, TX

Sample Id:SSW-1 1'Lab Sample Id:556209-008	Matrix: Soil Date Collected: 06.20.17 10.15	Date Received:06.23.17 15.33 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.27.17 23.46	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.27.17 23.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	80-120	06.27.17 23.46		
1,4-Difluorobenzene		540-36-3	100	%	80-120	06.27.17 23.46		





TRC Solutions, Inc, Midland, TX

Sample Id: NSW-2 1' Lab Sample Id: 556209-009		Matrix: Date Collecte	Soil d: 06.20.17 11.00	Date Rece Sample D	ived:06.23.17 15.33 epth: 1 ft	;
Analytical Method: Chloride by EPA Tech: MGO	.300			Prep Meth % Moistu	nod: E300P re:	
Analyst: MGO		Date Prep:	06.27.17 13.50	Basis:	Wet Weight	
Seq Number: 3020947 Parameter	Cas Number	Result R	L	Units Analys	is Date Flag	Dil

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.95	4.93	mg/kg	06.28.17 00.18		1

Analytical Method: TPH by SW801 Tech: ARM	5 Mod					Prep Method: TX	1005P	
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 14.56	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 14.56	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 14.56	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 14.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	06.26.17 14.56		
o-Terphenyl		84-15-1	103	%	70-135	06.26.17 14.56		





TRC Solutions, Inc, Midland, TX

Sample Id:NSW-2 1'Lab Sample Id:556209-009	Matrix: Soil Date Collected: 06.20.17 11.00	Date Received:06.23.17 15.33 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3020931	Date Prep: 06.27.17 15.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.28.17 00.02	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.28.17 00.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	80-120	06.28.17 00.02		
1,4-Difluorobenzene		540-36-3	107	%	80-120	06.28.17 00.02		





TRC Solutions, Inc, Midland, TX

Sample Id: WSW-2 1' Lab Sample Id: 556209-010		Matrix: Date Collecte	Soil ed: 06.20.17 11.15		ceived:06.23.17 15. Depth: 1 ft	33
Analytical Method: Chloride by EPA Tech: MGO Analyst: MGO	300	Date Prep:	06.27.17 13.50	Prep Met % Moiste Basis:	thod: E300P ure: Wet Weight	
Seq Number: 3020947		Duce Prop.				
Parameter	Cas Number	Result F	RL	Units Analy	sis Date Flag	Dil

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	4.96	mg/kg	06.28.17 00.26		1

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.26.	17 07.00	E	Basis: We	Weight	
Seq Number: 3021003								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	06.26.17 15.16	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	06.26.17 15.16	U	1
Oil Range Hydrocarbons	PHCG2835	<15.0	15.0		mg/kg	06.26.17 15.16	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.26.17 15.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	06.26.17 15.16		
o-Terphenyl		84-15-1	105	%	70-135	06.26.17 15.16		





TRC Solutions, Inc, Midland, TX

Sample Id:WSW-2 1'Lab Sample Id:556209-010	Matrix: Soil Date Collected: 06.20.17 11.15	Date Received:06.23.17 15.33 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3020931	Date Prep: 06.27.17 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.28.17 00.18	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.28.17 00.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	92	%	80-120	06.28.17 00.18		
4-Bromofluorobenzene		460-00-4	103	%	80-120	06.28.17 00.18		



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
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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



QC Summary 556209

TRC Solutions, Inc

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	d: E300	OP	
Seq Number:	3020947			Matrix:	Solid				Date Pre	ep: 06.2	7.17	
MB Sample Id:	726861-1-BLK		LCS San	nple Id:	726861-1-	BKS		LCSI	O Sample	Id: 7268	361-1-BSD	
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	riag

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	d: E30	0P	
Seq Number:	3020947			Matrix:	Soil				Date Pre	ep: 06.2	7.17	
Parent Sample Id:	555795-008		MS Sar	nple Id:	555795-00)8 S		MSI	O Sample	Id: 555	795-008 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.20	246	253	99	254	100	90-110	0	20	mg/kg	06.27.17 21:16	

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3020947			Matrix:	Soil				Date Pre	ep: 06.2	7.17	
Parent Sample Id:	556209-002		MS Sar	nple Id:	556209-00)2 S		MSI	D Sample	Id: 5562	209-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.3	250	289	101	290	101	90-110	0	20	mg/kg	06.27.17 23:02	

Analytical Method:	TPH by SW8015 M	lod						Pı	ep Metho	od: TX1	.005P	
Seq Number:	3021003			Matrix:	Solid				Date Pr	ep: 06.2	6.17	
MB Sample Id:	726785-1-BLK		LCS Sar	nple Id:	726785-1	-BKS		LCS	D Sample	e Id: 7267	785-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydroca	arbons <15.0	1000	1030	103	1030	103	70-135	0	35	mg/kg	06.26.17 10:55	
Diesel Range Organics	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	06.26.17 10:55	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane	107		1	01		102		70	-135	%	06.26.17 10:55	
o-Terphenyl	115		1	00		99		70	-135	%	06.26.17 10:55	



TRC Solutions, Inc

Analytical Method:	TPH by S	W8015 M	lod						Pı	ep Meth	od: TX1	005P	
Seq Number:	3021003				Matrix:	Soil				Date Pr	ep: 06.2	6.17	
Parent Sample Id:	556209-00)1		MS Sar	nple Id:	556209-0	01 S		MS	D Sample	e Id: 5562	209-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydroc	carbons	<15.0	998	1030	103	1020	102	70-135	1	35	mg/kg	06.26.17 11:56	
Diesel Range Organics		53.3	998	1050	100	1040	99	70-135	1	35	mg/kg	06.26.17 11:56	
Surrogate					AS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	07		101		70	-135	%	06.26.17 11:56	
o-Terphenyl				9	99		96		70)-135	%	06.26.17 11:56	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3020931 726847-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 726847-1	-BKS			rep Methe Date Pr D Sample	ep: 06.2	5030B 7.17 847-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.103	102	0.103	103	70-130	0	35	mg/kg	06.27.17 20:16	
Toluene	< 0.00202	0.101	0.0908	90	0.0903	90	70-130	1	35	mg/kg	06.27.17 20:16	
Ethylbenzene	< 0.00202	0.101	0.0968	96	0.0998	100	71-129	3	35	mg/kg	06.27.17 20:16	
m,p-Xylenes	< 0.00404	0.202	0.176	87	0.177	88	70-135	1	35	mg/kg	06.27.17 20:16	
o-Xylene	< 0.00202	0.101	0.0917	91	0.0933	93	71-133	2	35	mg/kg	06.27.17 20:16	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	97		ç	92		101		80)-120	%	06.27.17 20:16	
4-Bromofluorobenzene	99		1	07		100		80)-120	%	06.27.17 20:16	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3020931 556209-001	1B] MS San	Matrix: nple Id:		01 S			rep Methe Date Pr D Sample	ep: 06.2	5030B 7.17 209-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0814	81	0.0750	74	70-130	8	35	mg/kg	06.27.17 20:48	
Toluene	< 0.00200	0.100	0.0665	67	0.0653	65	70-130	2	35	mg/kg	06.27.17 20:48	Х
Ethylbenzene	< 0.00200	0.100	0.0708	71	0.0610	60	71-129	15	35	mg/kg	06.27.17 20:48	Х
m,p-Xylenes	< 0.00400	0.200	0.117	59	0.105	52	70-135	11	35	mg/kg	06.27.17 20:48	Х
o-Xylene	< 0.00200	0.100	0.0656	66	0.0628	62	71-133	4	35	mg/kg	06.27.17 20:48	Х
Surrogate				1S Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	90		116		80)-120	%	06.27.17 20:48	
4-Bromofluorobenzene			9	91		117		80)-120	%	06.27.17 20:48	

Incliniquistica by	Relinquished	Relinquished	Bill to R	Special I											LAB # (lab use only)	ORDER #:	(lab use only)							The Environme
	hed by:	Juli Lun	Bill to Rose Slade at Energy Transfer.	Special Instructions:	WSW-2 1	NSW-2 1	SSW-1 1	ESW-2 1	NSW-1 1	BH-4 2'	BH-5 6"	WSW-1 1	ESW-1 1'	BH-3 2'	FIELD CODE	# DOGD	only)	Sampler Signature:	Telephone No: 432.52	City/State/Zip: Midlan	Company Address: 2057 C	Company Name TRC E	Project Manager: Nikki Green	The Environmental Lab of Texas
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Temperature Upon Receipt:	hple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	n	×	×	×	×	×	×	×	×	×	×	BTEX 80219/5030 or BTEX 82	260	Π	For:			ea (RC	ores	2-56
žt	PHL ?	er(s)	0.0	-									1.		RCI	-	1] TRRP		Lea County, NM	FRC #: 273818	A14 Compressor Station Sump	t I-20 East Phone: 432-563-1800 9xas 79765 Fax: 432-563-1713
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Final 1.000



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/23/2017 03:33:00 PM Temperature Measuring device used : R8 Work Order #: 556209 Comments Sample Receipt Checklist 2.4 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seal present on shipping container/ cooler? N/A #5 *Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A #7 *Custody Seals Signed and dated? N/A #8 *Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? N/A #21 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#:

Date: 06/23/2017

Checklist completed by: Jessica Kramer Checklist reviewed by: Kelsey Brooks

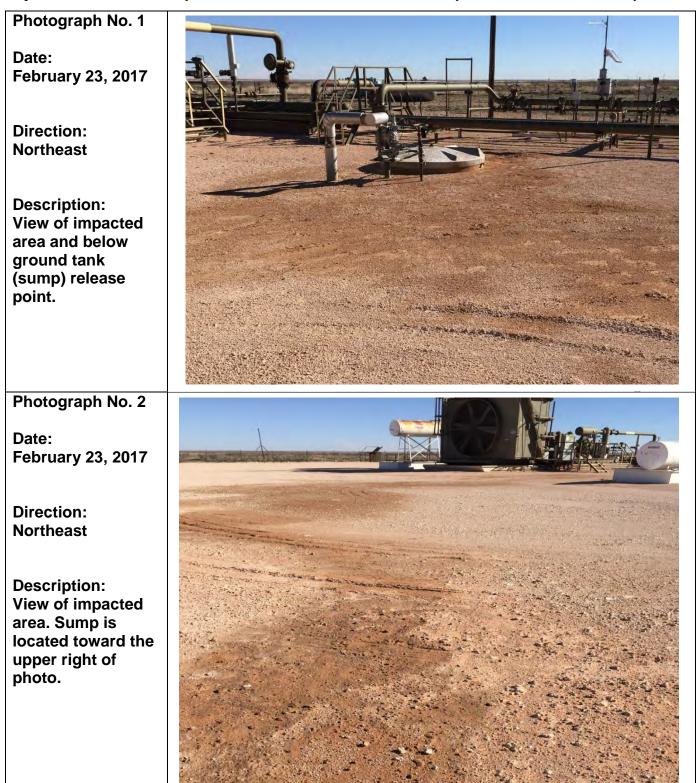
Date: 06/26/2017

Page 31 of 31



Photographic Documentation

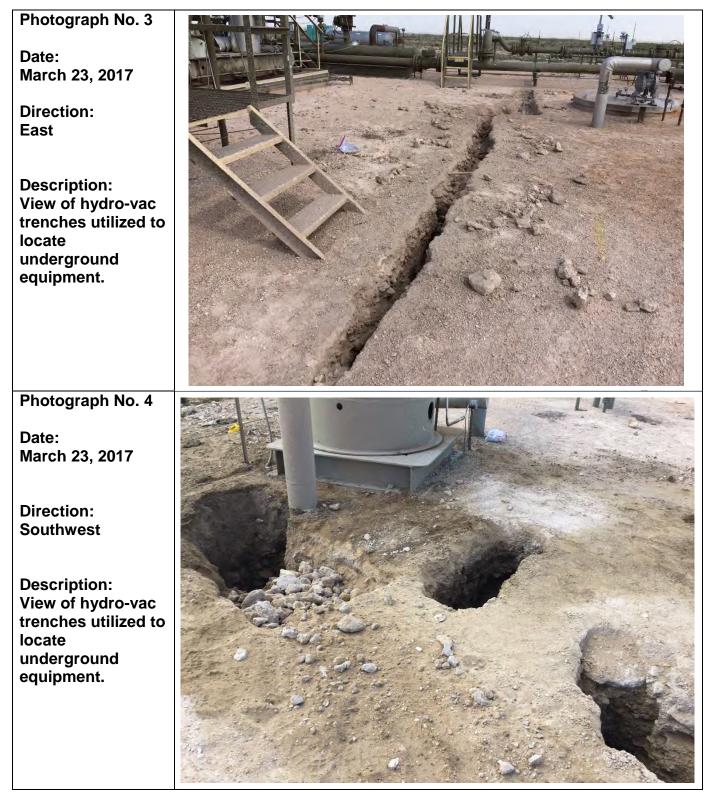
Client: ETC Field Services, LLCPrepared by:TRC Environmental Corp.Project Name: A-14 Compressor Station Below Ground SumpLocation: Lea County, NM





Photographic Documentation

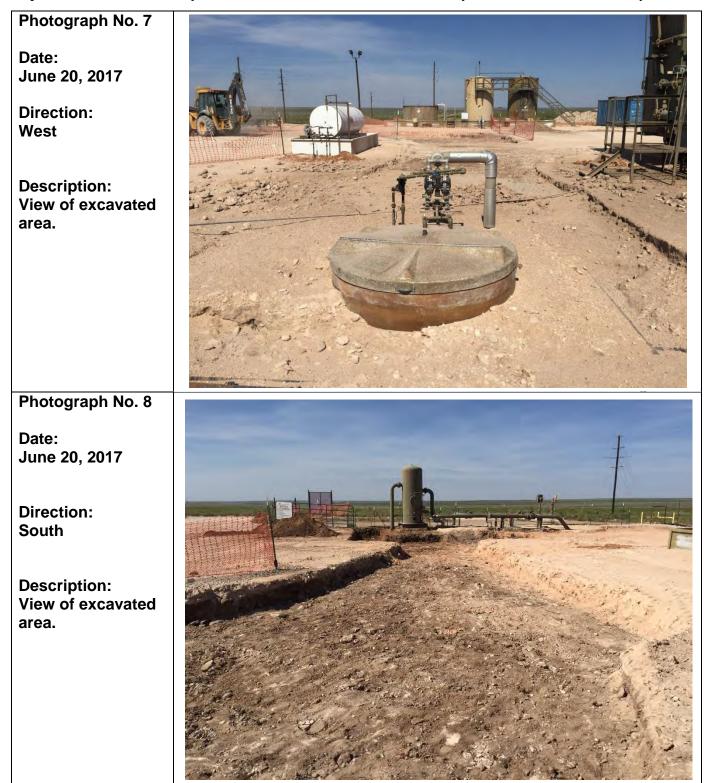
Client: ETC Field Services, LLCPrepared by:TRC Environmental Corp.Project Name: A-14 Compressor Station Below Ground SumpLocation: Lea County, NM



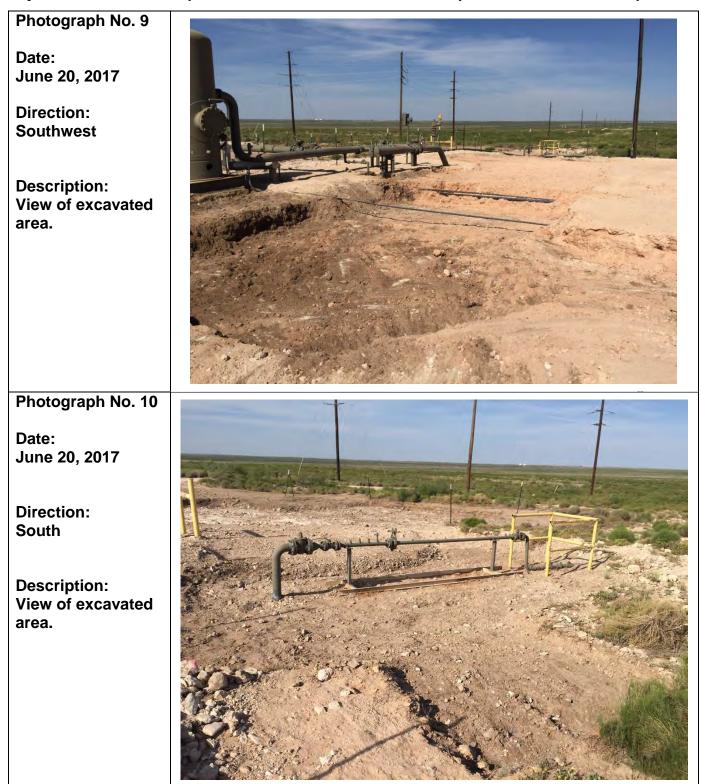




















	. Box 1737 Eunice, New 1 (575) 394-2511		TICKET No.	430949
EASE OPERATOR/SHIPPE	ir/company: Z	70 ,,		
LEASE NAME: /-/ ///	Comput	<u>stor Mallea</u>	College A	
TRANSPORTER COMPANY		1 11112 JULIA	TIME"	7.77 AM/EN
DMILL JA XIJII	VERICLE NO:	4434134	TORCOMPANY (25-C	
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[];	^a roduction Water	[] Drilling Fluids	[] Rinsate	
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TICKET, OPERATOR/SI MATERIAL EXEMPT FR TO TIME, 40 U.S.C. 5 6 THERETO, BY VIRTUE O ASSOCIATED WITH TP GEOTHERMAL ENERG ALSO AS A CONDITION TICKET. TRANSPORT OPERATOR/SHIPPER T FACILITY FOR DISPOSI THIS WILL CERTIFY above described location	HIPPER REPRESENTS A OM THE RESOURCE, CC 901, et seq., THE NM H OF THE EXEMPTION AF THE EXPLORATION, DEV Y. ON TO SUNDANCE SER ER REPRESENTS AN O TRANSPORTER IS N AL. that the above Transpo on, and that it was tend	ND WARRANTS THAT THE WAST DISERVATION AND RECOVERY AC EALTH AND SAF, CODE § 361.001 FORDED DRILLING FLUIDS, PROF ELOPMENT OR PRODUCTION OF VICES, INC:S ACCEPTANCE OF THE ND WARRANTS THAT ONLY IOW DELIVERED BY TRANSPORT INC: 1000000000000000000000000000000000000	E MATERIAL SHIPPED T OF 1976, AS AMEND et seq., AND REGULAT DUCED WATERS, AND F CRUDE OIL OR NAT MATERIALS SHIPPED T THE MATERIAL DI ER TO SUNDANCE SE d by this Transporter St er. This will certify that	HEREWITH IS ED FROM TIME IONS RELATED OTHER WASTE URAL GAS OR WITH THIS JOB ELIVERED BY RVICES, INC.'S
TICKET, OPERATOR/SI MATERIAL EXEMPT FR TO TIME, 40 U.S.C. 5 6 THERETO, BY VIRTUE O ASSOCIATED WITH TH GEOTHERMAL ENERG ALSO AS A CONDITION TICKET. TRANSPORT OPERATOR/SHIPPER T FACILITY FOR DISPOSI THIS WILL CERTIFY abave described location materials were added f	HIPPER REPRESENTS A OM THE RESOURCE, CO 901, et seq., THE NM H OF THE EXEMPTION AF E EXPLORATION, DEV Y. ON TO SUNDANCE SER ER REPRESENTS AN TO TRANSPORTER IS N AL. that the above Transpo- on, and that it was tend o this load, and that the CATIVE:	ND WARRANTS THAT THE WAST DISERVATION AND RECOVERY AC EALTH AND SAF, CODE § 361.001 FORDED DRILLING FLUIDS, PROF ELOPMENT OR PRODUCTION OF VICES, INC:S ACCEPTANCE OF THE ND WARRANTS THAT ONLY IOW DELIVERED BY TRANSPORT INC: 1000000000000000000000000000000000000	E MATERIAL SHIPPED T OF 1976, AS AMEND et seq., AND REGULAT DUCED WATERS, AND F CRUDE OIL OR NAT MATERIALS SHIPPED T THE MATERIAL DI ER TO SUNDANCE SE d by this Transporter St et. This will certify that	HEREWITH IS ED FROM TIME IONS RELATED OTHER WASTE URAL GAS OR WITH THIS JOB ELIVERED BY RVICES, INC.'S
TICKET, OPERATOR/SI MATERIAL EXEMPT FR TO TIME, 40 U.S.C. § 6 THERETO, BY VIRTUE O ASSOCIATED WITH TO GEOTHERMAL ENERG ALSO AS A CONDITION TICKET. TRANSPORT OPERATOR/SHIPPER T FACILITY FOR DISPOSO THIS WILL CERTIFY above described location materials were added to DRIVER: 	HIPPER REPRESENTS A OM THE RESOURCE, CC 901, et seq., THE NM H OF THE EXEMPTION AI E EXPLORATION, DEV Y. ON TO SUNDANCE SER ER REPRESENTS AN O TRANSPORTER IS N AL that the above Transpo- on, and that it was tend o this load, and that the CLANCE CA TATIVE:	ND WARRANTS THAT THE WAST DISERVATION AND RECOVERY AC EALTH AND SAF, CODE § 361.001 FORDED DRILLING FLUIDS, PROF ELOPMENT OR PRODUCTION OF VICES, INC:S ACCEPTANCE OF THE ND WARRANTS THAT ONLY IOW DELIVERED BY TRANSPORT INC: 1000000000000000000000000000000000000	E MATERIAL SHIPPED T OF 1976, AS AMEND et seq., AND REGULAT DUCED WATERS, AND F CRUDE OIL OR NAT MATERIALS SHIPPED T THE MATERIAL DI ER TO SUNDANCE SE d by this Transporter St et. This will certify that	HEREWITH IS ED FROM TIME IONS RELATED OTHER WASTE URAL GAS OR WITH THIS JOB ELIVERED BY RVICES, INC.'S

111	P.O. Box 1737 Eunice, New (575) 394-25		TICKET No. 43	hjel-tek
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EASE NAME: RANSPORTER DATE: 7.77 HARGE TO:	COMPANY: Company COMPANY: Company Company Company: Company Com	int /	ATOR COMPANY KCSC	1 Xeepp 1 AMUPM X 1 Te
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TICKET, OPI MATERIAL E TO TIME, 40 THERETO, 8 ASSOCIATE GEOTHERM ALSO AS A TICKET. TR	ERATOR/SHIPPER REPRESENTS XEMPT FROM THE RESOURCE, U.S.C. § 6901, et seq., THE NM Y VIRTUE OF THE EXEMPTION D WITH THE EXPLORATION, DI AL ENERGY. CONDITION TO SUNDANCE SE ANSPORTER REPRESENTS	ICES, INC'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAS CONSERVATION AND RECOVERY AN HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PRO EVELOPMENT OR PRODUCTION C RVICES, INC'S ACCEPTANCE OF TH AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOR	TE MATERIAL SHIPPED HER CT OF 1976, AS AMENDED FI et seq., AND REGULATIONS DUCED WATERS, AND OTH OF CRUDE OIL OR NATURAL E MATERIALS SHIPPED WITH THE MATERIAL DELIVE	EWITH IS RELATED RELATED R WASTE GAS OR THIS JOB RED BY
THIS WILL above descri	ibed location, and that it was te	orter loaded the material represent ndered by the above described ship fie material was delivered without i	per. This will certify that no a	ent at the Idditional

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Fewerder from: TOTALLY SHARP ADVERTISING + 432-586-5461 - ware PromoSupermarket.com

BOLBOX 1737 Eurlice, New M (575) 394-2511		TICKET No. 430	955
LEASE OPERATOR/SHIPPER/COMPANY:	<u>70</u> <u>218382 - Sta</u> <u>70776788</u> 2	TIME / //	
CHARGE TO: F 70		NAME 2 NUMBER	
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AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

DRIVER	<		
CINGMATURE)			
FACILITY REPRESENTATIVE:	$\mathcal{D} \cap \mathcal{D} \neq \mathcal{O} \mathcal{D}$		
SAMATAN			
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
Ba-order from: TOTAL	lt sharp activitising - 432-546-5401 - www.prov	105upttmsdiat.com	

LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: MAR TRANSPORTER COMPANY: MAR DATE: D. 20-1-7 VEHICLE NO: CHARGE TO: ETC	CENERAL CENERAL		AM/PM
TRANSPORTER COMPANY: ATA DATEQ-20-1-7 VEHICLE NO:	CENERAL GENERAL		
1 20 11	RIGN	DA COMPANY MAN'S NAME	
CHARGETO: <u>ZETC</u>			
		NUMBER	
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ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S FACILITY FOR DISPOSAL.

DRIVER: sciates FACILITY REPRESENTATIVE: CCAUTURE White - Sundance Canary - Sundance Acct #1 Pink - Transporter Re-order from TOTALLY SHARP ADVERTISHIC + 432-586-5401 - www.PromoSupermarket.com

su	NDANCE SERV P.O. Box 1737 Eunice, New / (575) 394-2511	Aexico 88231	TICKET No. 4310	51
LEASE OPERATO LEASE NAME: (TRANSPORTER C DATE: (C Here Stations Emport		AMUPM
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AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:	ric fel		
FACILITY REPRESENTATIVE:	ratherica)	
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
For order from: 10184.	LY SHAAP ADVERTISING - 432-386-3401 - WWW.Prome	Supermutation	

all_ su	NDANCE SERV P.O. Box 1737 Eunice, New N (575) 394-2511	VICES, Inc.	TICKET No. 431052
LEASE OPERATOR LEASE NAME: TRANSPORTER CO	MSHIPPER/COMPANY:	E Stating	
DATE:		L-GENERA	CORCOMMANY AND A CONTRACT OF CONTRACT.
CHARGE TO:	76		NAME 437-410-51471
		TYPE OF MATERIAL	
	I] Production Water I] Tank Bottoms I] Solids	Drilling Fluids Ontaminated Soll SS&W Content:	[] Rinsate [] Jet Out [] Call Out
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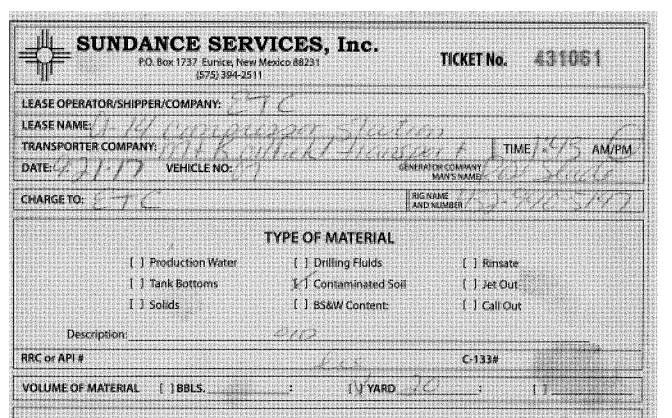
DRIVER: Died	1		
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White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
Na-sidar from: 101A1	ly sharp advertising +432-588-5401 + mww.prom	nsugmarriarkat.com	

(575) 394-251	Mexico 88231	TICKET No. 43105	
LEASE OPERATOR/SHIPPER/COMPANY:	$I \subset I$		***
LEASE NAME: CI- 14, CORAD	CLUPE STITLE		i i i i i i i i i i i i i i i i i i i
TRANSPORTER COMPANY:		TIME/ C 7	AMZEM
DATE: / / / / VEHICLE NO:		CR CDMPANY	
CHARGE TO: 2 T C	ALC N AND	AME 752 • 740	579
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TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
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DRIVER:	Sarcher		italiane.



AS A CONDITION TO SUNDANCE SERVICES, INC:'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Jakone			
LIPUVER:	17 11		
FACILITY REPRESENTATIVE:	Schalsfre	\mathcal{K}	
CREMATURE	r		
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
Re-order from TOTA	LLY SHARP ADVERTSING - 412-584-5401 - WAVE PERM	15	

BO. Box 1737 Eunice, New M		TICKET No. 431	962
LEASE OPERATOR/SHIPPER/COMPANY:	Contraction of the Contraction o		S AM/PM
CHARGETO:		NAME 19974C	
	TYPE OF MATERIAL		
[] Production Water [] Tank Bottoms [] Solids	Drilling Fluids Contaminated Soil BS&W Content:	[] Rinsate [] Jet Out [] Call Out	
Description:	<u>970</u>		
RRC of API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: MY YARD	<u>, c.</u> ; []	

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White - Sund	ance	Canary - Sundance Acct #1	Pink - Transporter	
FACILITY REPRESENTATIV	/E: (S)SHATIME	Act Hard Street		
434544714E	C.,	S. 51/2		
DRIVER: / 2 / / / / / / / /	er e ste			

	NCE SERV . Box 1737 Eunice, New Me (575) 394-2511		TICKET No.	431066
LEASE OPERATOR/SHIPP LEASE NAME:	(Company			- CCAMPM
CHARGE TO:			RIG NAME AND NUMBER	140.514
	Т	YPE OF MATERIAL		
11	Production Water Tank Bottoms Solids	[], Drilling Fluids) [] Contaminated Soil [] 85&W Content:	[] Rinsate [] Jet Out [] Call Out	
Description:		412		
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VOLUME OF MATERIAL	1 188LS	_: [/] YARD_	$\geq \phi$:	[1]

AS A CONDITION TO SUNDANCE SERVICES, INC:'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DAWERS .843404.71.0483 **FACILITY REPRESENTATIVE** ecarne: White - Sundance Canary - Sundance Acct #1 Pink-Transporter lar-order from: TCTALLY SHAPP ACHTERISHES + 402-586-5401 + weaw PromoSupermanieLoope

	ANCE SERV PO. Box 1737 Eunice, New M (575) 394-2511		TICKET No.	431070
LEASE OPERATOR/SHIF LEASE NAME: TRANSPORTER COMPA DATE:	14 and	usser sta urlat		2-35 AMPM
CHARGE TO: 7	C		HIG NAME 4/3/-	2412-519
	1	YPE OF MATERIAL		
t I I] Production Water] Tank Bottoms] Solids	[] Drilling Fluids DI-Contaminated Soil [] BS&W Content:	[] Rinsate [] Jet Out [] Call Out	
Description:		010		
RRC or API #		Lie	C-133#	
VOLUME OF MATERIAL	[] 88LS	: [`)/YARD_	<u> </u>	[]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:	RICGrdo	· Dugz		
ß	SCAUTUR:			
FACILITY	REPRESENTATIVE:	1 AVRETT	Ter-	
	BISANGE	\geq \sim \sim		
	White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
	Re-order from TOTAL	14 Small Alventista: 433-516-5461 - 1000 Pro	antiace market com	

SUND/	ANCE SERV O. Box 1737 Eurice, New M (575) 394-2511	/ICES, Inc.	TICKET No.	431071
LEASE OPERATOR/SHIP LEASE NAME: TRANSPORTER COMPAN DATE:	March 11	t C Hick to the Constant of th	CENERATOR COMPANY MAN'S NUME	2:38 AM/PM
CHARGE TO:	76		RIG NAME AND NUMBER 4	240-5143
		TYPE OF MATERIA		
	Production Water Tank Bottoms Solids	[] Drilling Fluids Dri Contaminated ! [] BS&W Content:	[] Rinsate Soll [] Jet Out [] Call Out	
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VOLUME OF MATERIAL	[]BBLS	: (j) [/] YARI	⊃ <u>, ,</u> :	11

AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was lendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER

FACILITY REPRESENTATIVE:

RY647129

White - Sundance

n Gulling

Canary - Sundance Acct #1

Re-order from TOTALLY SHARP ACTIVITIZING - 432-596-5431 - www.PrinteSupermarket.com

Pink - Transporter

su	P.O. Box 1737 Eunice, New / (575) 394-2511	Mexico 88231	TICKET No.	431072
LEASE OPERATO LEASE NAME: TRANSPORTER O DATE:				terre and the second second
CHARGE TO:	Etc		NAME	40.5314
		TYPE OF MATERIAL		
	I Production Water I Tank Bottoms I Solids	[] Drilling Fluids [] Contaminated Soll [] 85&W Content:	[] Rinsate [] Jet Out [] Call Out	
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RAC or API #		-Lis	C-133#	
VOLUME OF MAT	TERIAL []BBLS	: 1-1 YARD	<u>201 : 1</u>]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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FACILITY REPRESEN		ardsei	u co	
White -	Sundance	Canary - Sundance Acct #1	Pink - Transporter	
	Am-order from: TOTALLY	SHARP ADVERTISING - 433-586-5461 - waare	Gerna Stag-nerman Stationsmi	

	NDANCE SERV P.O. Box 1737 Eunice, New A (575) 394-2511		TICKET No. 4310	88
LEASE OPERATOR	R/SHIPPER/COMPANY:	1		
LEASE NAME:	-14 (Cm V	Warder Sta	Tico	
TRANSPORTER C	OMPANY: 4		TIME C/. ()	AM/PM
DATE: /- [] -	VEHICLE NO:	GENERAT	DR COMPANY	
CHARGE TO:	$\exists < \Box$	186N		
		TYPE OF MATERIAL		
	[] Production Water	[] Drilling Fluids	() Rinsate	
	[] Tank Bottoms	Y Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[] Call Out	
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VOLUMEOFMAT	ERIAL [] BBLS.	: VI YARD - C	3 : 11	

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DRIVER:	<u>Janaco</u> (s-	
FACILITY REPRESENTATIVE:	XITCLY		
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	
Re-order from TCTA	LLY SHARP ACMENTISING + 432-586-5481 + WAVEProto	Stappen and and account	

	P.O. Box 1737 Eunice, New (575) 394-251	A LEAD AT A COMPANY AND A COMPANY A	TICKET No. 431183
EASE OPERATOR/SHIP	PER/COMPANY:	70	
EASE NAME:	<u>CCMCCCC</u> NY: 5 10 1		ITIME CHAMPA
MTE-//))-/7	VEHICLE NO:	<u>3 COLIS P. A. F.</u> Cy	TIME 7. 75 AM/PA
HARGE TO:	TC		NAME 453.440.5797
		TYPE OF MATERIAL	
1] Production Water	[] Drilling Fluids	[] Rinsate
1.] Tank Bottoms	[] Contaminated Soll	[] Jet Out
.1.	3 Solids	I 1 85&W Content:	[] Call Out
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OLUME OF MATERIAL	[] BBLS	:) YARD	
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Be-order from: TOTALLY SHARP ADVERTISING + 432-566-540) - www.PromoSuparmarkas.com

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Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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			Rele	ase Notifi	catio	on and Co	orrectiv	ve Act	tion				
•						• OPERATOR Initial Report				Final Report			
Name of Company: ETC Field Services, LLC						Contact: Ro							
Address: 800 East Sonterra Rd. Suite 2 San Antonio, TX 78249						Telephone No. 210-403-6525							
Facility Na	me: A-14 (Below Grou	nd Sump)		Facility Typ	e: Gather	ing Pipe	line				
Surface Owner: (BLM) Bureau of Land Mineral Owner Management					Owner	r: N/A API No. N/A							
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If a Watercourse was Impacted, Describe Fully.* N/A						RECE	IVE	D –					
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Date: 3/3/17			e: 210-403	3-6525		see a	attacheo	a direc	tive			_	
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on $_3/3/2017$ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number $_1R-_4635$ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _4/10/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us