

## **REMEDIATION SUMMARY AND**

## SOIL CLOSURE REQUEST

ETC FIELD SERVICES, LLC Field Scrubber Dump Tanks Lea County, New Mexico UNIT LTR "I", Section 32, Township 24 South, Range 37 East, NMPM Latitude 32.173676° North, Longitude 102.173696° West NMOCD Reference No. 1RP-4408

## **APPROVED**

By Olivia Yu at 8:09 am, Dec 29, 2017

Prepared For:

ETC Field Services, LLC 800 East Sonterra San Antonio, Texas 78258 NMOCD approves of the closure for 1RP-4408 and BGTs.

Prepared By:

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December 2017

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#### INTRODUCTION AND BACKGROUND INFORMATION

TRC Environmental Corporation (TRC) has prepared the following *Remediation Summary and Closure Request* in regard to recent field activities conducted at the "Field Scrubber Dump Tanks" below-grade tanks (BGTs) site at ETC Field Services, LLC's (ETC) Jal #3 Gas Plant. The site is located in Unit Letter "I" of Section 32, Township 24 South, Range 37 East in Lea County, New Mexico. The "Field Scrubber Dump Tanks", were located adjacent to one another immediately west of the Jal #3 Gas Processing Plant. The site consists of the northern field scrubber dump tank, which could be described as 210-barrel (bbl) steel tank and the southern field scrubber dump tank, which could be described as a 210-bbl fiberglass tank. Each of the BGTs were formerly utilized to contain pipeline liquids. A "Site Location Map" is provided as Figure 1. Copies of the Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Applications (Form C-144s) are provided in Appendix E.

During the initial investigation, three (3) excavations (Excavation A, Excavation B and Excavation C) measuring approximately three (3) to four (4) feet (ft.) in depth were observed adjacent to and in the vicinity of the BGTs. Review of historical documentation indicated, the shallow excavations are related to remediation activities of a previous BGT overflow release (1RP-4408) conducted by an alternate environmental contractor which is no longer affiliated with the site. Review of the Release Notification and Corrective Action (Form C-141) indicated the failure of the field scrubber dump valve resulted in the storage tanks being "overtopped", releasing approximately twenty (20) bbls of a oil and produced water mixture. During initial response activities approximately fifteen (15) bbls of free-standing fluid were recovered utilizing a vacuum truck. The release affected the area around the tanks, along with areas to the west and south of the tanks. Original field notes and laboratory analytical data were not readily available. A copy of the Release Notification and Corrective Action (Form C-141) is provided in Appendix D.

On August 7, 2017, representatives of the NMOCD, TRC and ETC met to discuss the site. During the meeting, it was determined the open excavations adjacent to and in the vicinity of the BGTs would be remediated in accordance with the NMOCD *Guidelines for the Remediation of Leaks, Spills and Releases.* Soil beneath the BGTs would be remediated in accordance with the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

#### NMOCD SITE CLASSIFICATION

Review of the New Mexico Water Rights Reporting System (NMWRRS) online database indicated depth to groundwater information is not available for Section 32, Township 24 South, Range 37 East. Review of a depth to groundwater gradient map utilized by the NMOCD indicated groundwater is estimated to be encountered at approximately 220 ft. below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the Release Site as a result of this criterion.

No water wells were observed within one-thousand (1,000) ft. 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) ft. 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 Site has a ranking score of zero (0). Based on this score, the Recommended Remediation Action Levels (RRAL) for a release 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)

The Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. are as follows:

- Benzene 10 mg/kg (ppm)
- BTEX 50 mg/kg (ppm)
- Gasoline Range Organics (GRO) + Diesel Range Organics (DRO) 1,000 mg/kg (ppm)
- TPH 2,500 mg/kg (ppm)
- Chloride -20,000 mg/kg (ppm)

#### SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 18, 2017, TRC collected soil samples from the floor and sidewalls of each of the open excavations and submitted the soil samples to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, total petroleum hydrocarbon (TPH) and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil Exc. B South Sidewall, which exhibited a TPH concentration of 5,520.1 milligrams per kilogram (mg/kg). Sample locations are depicted on Figure 3. A tables summarizing "Concentrations of Benzene, BTEX, TPH and Chloride in Soil (1RP-4408)" is provided as Table 2. Laboratory analytical reports are provided in Appendix A.

On August 4, 2017, ETC submitted a *Proposed Closure Strategy – Field Scrubbers* (*Closure Strategy*) to the New Mexico Oil Conservation Division (NMOCD) proposing field activities designed to advance the field scrubber BGTs toward an NMOCD-approved closure. The *Closure Strategy* proposed closing the BGTs by removing the remaining contents from each of the BGTs, disposing of the contents at an NMOCD-permitted facility, removal of the BGTs, conducting an inspection of the bottom and sides of each of the BGTs along with the adjacent soil. In addition, the *Closure Strategy* included the collection of a composite soil sample beneath each of the BGTs former location. The *Closure Strategy* was subsequently approved.

On August 7, 2017, representatives of the NMOCD, TRC and ETC met to discuss the site. During the meeting, it was determined that the open excavations adjacent to and in the vicinity of the BGTs would be remediated in accordance with the NMOCD *Guidelines for the Remediation of Leaks, Spills and Releases.* 

On August 23, 2017, excavation activities commenced. Impacted soil in the area represented by soil sample Exc. B South Sidewall was excavated and stockpiled on-site, atop an impermeable polyurethane liner. Upon advancing Excavation B toward the south, one (1) soil sample (Exc. B SSWb) was collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX and chloride concentrations were below the NMOCD RRAL. Soil sample Exc. B SSWb exhibited a TPH concentration of 12,186.4 mg/kg. In addition, delineation trenches were advanced in the floors of the three (3) open excavations. During the advancement of the delineation trench, one (1) soil sample was collected soil samples (Exc. A TT @ 9', Exc. B TT @ 8' and were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated soil samples.

On August 24, 2017, as per the approved *Closure Strategy*, the northern, steel BGT was removed utilizing mechanical equipment. Upon removing the BGT, a visual inspection was conducted on the base and sides of the BGT to search for evidence of a release. During the inspection, the tank appeared to be intact and no evidence of failures were discovered. In addition, the adjacent soils were inspected for stains or excessive moisture. The observed soil beneath the steel BGT did not exhibit staining or excessive moisture; slight staining was noted in the south sidewall of former steel BGT location. As per the approved *Closure Strategy*, one (1) five-point composite soil sample (N. BGT Floor @ 18') was collected from soil beneath the tank's former location and submitted to the laboratory for analysis of benzene, BTEX, GRO+DRO, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, GRO+DRO, TPH and chloride concentrations were below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

In addition, four (4) sidewall soil samples (N. BGT NSW, N. BGT ESW, N. BGT SSW and N. BGT WSW) were collected from the adjacent sidewalls at approximately thirteen (13) ft. bgs and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory reporting limit (RL) in each of the submitted soil samples. BTEX concentrations ranged from less than the laboratory RL in soil samples N. BGT NSW and N. BGT WSW to 9.664 mg/kg in soil sample N. BGT SSW. TPH concentrations ranged from less than the laboratory RL in soil samples N. BGT NSW and N. BGT SSW. Chloride concentrations ranged from 21.7 mg/kg in soil sample N. BGT NSW to 104 mg/kg in soil sample N. BGT SSW. Benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

On August 28, 2017, the southern, fiberglass BGT was removed utilizing mechanical equipment. Upon removing the BGT, a visual inspection was conducted on the base and sides of the BGT to search for evidence of a release. During the inspection, the tank appeared to be intact and no evidence of failures were discovered. In addition, the adjacent soils were inspected for stains or excessive moisture. Soil beneath the fiberglass BGT exhibited slight staining but no excessive moisture. Staining was also observed in the northern, western and eastern sidewalls of former fiberglass BGT location. A portion of the staining appeared to be related to anoxic conditions as opposed to hydrocarbon staining. As per the approved Closure Strategy, one (1) five-point composite soil sample (S. BGT Floor @ 18') was collected from soil beneath the tank's former location and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. The combined GRO+DRO concentrations exceeded the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

In addition, four (4) sidewall soil samples (S. BGT NSW, S. BGT ESW, S. BGT SSW and S. BGT WSW) were collected from the adjacent sidewalls and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory RL in each of the submitted soil samples, with the exception of S. BGT ESW, which exhibited a benzene concentration of 15.6 mg/kg. BTEX concentrations ranged from 9.78 mg/kg in soil sample S. BGT SSW to 135.04 mg/kg in soil sample S. BGT ESW. TPH concentrations ranged from 977.5 mg/kg in soil samples S. BGT SSW to 20,200 mg/kg in soil sample S. BGT ESW. Chloride concentrations ranged from 22.5 mg/kg in soil sample S. BGT WSW to 313 mg/kg in soil sample S. BGT NSW. Benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples S. BGT ESW and S. BGT WSW, which exhibited TPH concentrations of 20,200 mg/kg and 5,431 mg/kg, respectively.

On September 18, 2017, TRC submitted a *Remediation Summary and Proposed Closure Strategy* (*Proposed Closure Strategy*) to the NMOCD, on behalf of ETC, detailing field activities and laboratory analytical results from confirmation soil samples collected to date.

ETC proposed the following field activities designed to advance the Field Scrubber Dump Tank site toward an NMOCD-approved closure:

- Advance the floor of the excavation in the area represented by soil sample S. BGT Floor (a) 18', until laboratory analytical results from confirmation soil samples indicated TPH concentrations were below the *Closure Criteria for Soils beneath BGTs*, *Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft
- Advance the sidewalls of the excavation in the area represented by soil samples S. BGT ESW, S. BGT WSW and Exc. B SSWb until laboratory analytical results from

confirmation soil samples indicate BTEX and/or TPH concentrations were below the NMOCD RRAL.

- Transport excavated material to an NMOCD-permitted facility for disposal.
- Upon receiving laboratory analytical results from confirmation soil samples and NMOCD permission, backfill the three (3) excavated areas and former BGT locations with locally sourced, non-impacted material.

The Proposed Closure Strategy was subsequently approved. Please reference the *Remediation Summary and Proposed Closure Strategy* for the Field Scrubber Dump Tanks & 1RP-4408, dated September 13, 2017, for additional details.

On October 18, 2017, remediation activities resumed at the Site. As per the approved *Proposed Remediation Strategy*, the floor of the excavation in the area represented by soil sample S. BGT Floor @ 18' was advanced until field observations suggested TPH concentrations were below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. Upon advancing the floor of the excavation, one (1) confirmation soil samples (S. BGT Floor @ 21') was collected from the base of the excavated area and submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the combined GRO+DRO and TPH (662 mg/kg) concentrations were below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

As per the approved *Proposed Remediation Strategy*, excavation sidewalls in the area represented by soil samples S. BGT ESW, S. BGT WSW and Exc. B SSWb were advanced until laboratory analytical results from confirmation soil samples indicate BTEX and/or TPH concentrations were below the NMOCD RRAL. Upon advancing the sidewalls of the excavated areas, three (3) confirmation soil samples (Exc. B SSWb, S. BGT ESWb and S. BGT WSWb) were collected from the excavated area and submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations ranged from 603 mg/kg in soil sample S. BGT WSWb to 4,223 mg/kg in soil sample S. BGT ESWb. Soil sample S. BGT ESWb was also analyzed for concentrations of benzene and BTEX, which were determined to be less than the laboratory RL and 14.99 mg/kg, respectively. Laboratory analytical results indicated benzene, BTEX and/or TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples.

The final dimensions of the excavated area characterized by the former north BGT were approximately eighteen (18) ft. in length, eighteen (18) ft. in width and eighteen (18) ft. in depth. The final dimensions of the excavated area characterized by the former south BGT were approximately twenty-four (24) ft. in length, eighteen (18) ft. in width and twenty-one (21) ft. in depth. The final dimensions of Excavation A were approximately sixty (60) ft. in length, ten (10) to forty (40) ft. in width and four (4) ft. in depth. The final dimensions of Excavation B were approximately sixty (60) ft. in length, twenty (20) ft. in width and three (3) ft. in depth. The final dimensions of Excavation C were approximately sixty-seven (67) ft. in length, eight (8) to twenty (20) ft. in width and four (4) ft. in depth. A photographic log is provided as Appendix B.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with locally purchased, non-impacted material in an effort to mitigate safety concerns associated with the open excavations. Excavation backfill was compacted and graded to match the surrounding topography. Between October 16 and November 14, 2017, approximately five hundred and thirty-six (536) cubic yards (cy) of impacted soil was transported to Sundance Services (NMOCD Permit No. NM1-3-0) for disposal. Copies of Waste Manifests are provided in Appendix C.

The Site will be reseeded in accordance with the land owner at a time more conducive to germination.

#### SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with the NMOCD-approved *Remediation Summary and Proposed Closure Strategy*. Impacted soil was excavated and transported to and NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations were below the NMOCD RRAL and/or *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

Based on laboratory analytical results and field activities conducted to date, TRC recommends ETC provide copies of this *Remediation Summary and Soil Closure Request* to the NMOCD and request closure status to the Field Scrubber Dump Tank Site.

#### LIMITATIONS

TRC has prepared this *Remediation Summary and Soil 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:	Bradford Billings New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505
Copy 2:	Olivia Yu New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240
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







#### TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL JAL #3 FIELD SCRUBBER DUMP TANK - BELOW-GRADE TANKS ETC FIELD SERVICES, LLC LEA COUNTY, NM

					Metho	ds: EPA SW	846-8021B, 5	030	_		Methods:			
SAMPLE LOCATION	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	0-	TOTAL		EPA SW	846-8015M		E300
	DATE	(inches)		(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	(mg/Kg)	XYLENE (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
N. BGT Floor @ 18'	8/28/2017	18'	In-Situ	< 0.00199	0.0223	0.0773	0.0812	0.160	0.3408	26.5	345	110	481.5	88.9
S. BGT Floor @ 18'	8/28/2017	18'	Excavated	<0.202	0.443	0.661	4.46	2.03	7.594	264	979	249	1,492	105
S. BGT Floor @ 21'	10/18/2017	21'	In-Situ	-	-	-	-	-	-	272	390	<125	662	-
Claure Chitaria for Sa	1. h		Ja Amariata J											
Closure Criteria for So with Closed-Loop Systen		· •		10	-	-	-	-	50	1,	000	-	2,500	20,000

#### TABLE 2

#### CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL JAL #3 FIELD SCRUBBER DUMP TANK - RELEASE ETC FIELD SERVICES, LLC LEA COUNTY, NM

					Metho	ds: EPA SW	846-8021B, 5	030		Methods:				Method:
SAMPLE	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	0-	TOTAL		EPA SW	846-8015M		E300
LOCATION	DATE	(inches)	STATUS	(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	XYLENE (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
Exc. A Floor @ 4'	7/18/2017	4'	In-Situ	11.5	7.71	4.30	12.1	2.19	37.8	1,420	1,190	<250	2,610	81.3
Exc. A North Sidewall	7/18/2017	3'	In-Situ	< 0.0194	0.0426	0.0233	0.0523	< 0.0194	0.1182	<3.88	516	<250	516	222
Exc. A East Sidewall	7/18/2017	3'	In-Situ	< 0.0180	0.0180	0.242	< 0.0359	< 0.0180	0.260	19.9	591	<250	611	44.8
Exc. A South Sidewall	7/18/2017	3'	In-Situ	0.0916	0.311	0.0916	0.562	0.0916	1.1478	<7.55	4,250	584	4,834	52.9
Exc. A West Sidewall	7/18/2017	3'	In-Situ	<0.0197	< 0.0197	< 0.0197	< 0.0394	< 0.0197	< 0.0394	<3.94	<25.0	<25.0	<25.0	<25.0
Exc. B Floor @ 3'	7/18/2017	3'	In-Situ	< 0.164	1.63	< 0.112	16.4	2.90	20.93	1,660	<250	317	1,977	44.7
Exc. B North Sidewall	7/18/2017	2'	In-Situ	< 0.00832	0.0497	1.18	< 0.00628	0.333	1.5627	89.7	3,700	571	4,360.7	306
Exc. B East Sidewall	7/18/2017	2'	In-Situ	< 0.0392	0.0607	< 0.0267	0.321	< 0.0295	0.382	27.1	2,820	566	3,413.1	<25.0
Exc. B South Sidewall	7/18/2017	2'	Excavated	< 0.0425	0.103	1.67	< 0.0320	< 0.0320	1.773	95.1	4,700	725	5,520.1	103
Exc. B West Sidewall	7/18/2017	2'	In-Situ	< 0.0167	0.0222	0.251	< 0.0126	< 0.0126	0.2732	12.5	3,690	762	4,464.5	65.7
Exc. C Floor @ 4'	7/18/2017	4'	In-Situ	< 0.0195	0.0293	0.459	< 0.0391	0.135	0.6233	30.3	316	49.2	395.5	<25.0
Exc. C North Sidewall	7/18/2017	3'	In-Situ	< 0.0196	0.0196	0.106	< 0.0393	< 0.0196	0.1256	7.06	4390	399	4,796.06	<25.0
Exc. C East Sidewall	7/18/2017	3'	In-Situ	< 0.0195	0.0780	1.64	< 0.0390	< 0.0195	1.7180	181	284	48.7	513.7	<25.0
Exc. C South Sidewall	7/18/2017	3'	In-Situ	< 0.0183	< 0.0183	0.0495	< 0.0367	< 0.0183	0.0495	<3.67	49.2	25.3	74.5	<25.0
Exc. C West Sidewall	7/18/2017	3'	In-Situ	< 0.0198	< 0.0198	0.0516	< 0.0397	< 0.0198	0.0516	<3.97	966	236	1,202	<25.0
Exc. A TT @ 9'	8/23/2017	9'	In-Situ	0.00216	< 0.00202	0.00210	0.00747	0.00585	0.01758	40.3	779	161	980.3	140
Exc. B TT @ 8'	8/23/2017	8'	In-Situ	< 0.00952	< 0.00952	< 0.00952	< 0.0190	< 0.00952	< 0.0190	<15.0	<15.0	<15.0	<15.0	207
Exc. B SSWb	8/23/2017	2.5'	Excavated	< 0.00201	0.00848	< 0.00201	< 0.00402	< 0.00201	0.00848	36.4	9,230	2,920	12,186.4	58.7
Exc. C TT @ 9'	8/23/2017	9'	In-Situ	< 0.00202	< 0.00202	< 0.00202	< 0.00404	< 0.00202	< 0.00404	<15.0	<15.0	<15.0	<15.0	33.1
N. BGT NSW	8/28/2017	13'	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00200	< 0.00399	<15.0	<15.0	<15.0	<15.0	21.7
N. BGT ESW	8/28/2017	13'	In-Situ	< 0.00201	< 0.00201	< 0.00201	0.00404	0.00596	0.01000	<15.0	190	53.5	243.5	61.4
N. BGT SSW	8/28/2017	13'	In-Situ	< 0.0502	0.584	1.02	4.48	3.58	9.664	492	1,130	310	1,932	104
N. BGT WSW	8/28/2017	13'	In-Situ	< 0.00202	< 0.00202	< 0.00202	< 0.00403	< 0.00202	< 0.00403	<15.0	<15.0	<15.0	<15.0	24.1
S. BGT NSW	8/28/2017	13'	In-Situ	< 0.100	4.33	6.80	23.7	5.30	40.13	1,290	3,160	486	4,936	313
S. BGT ESW	8/28/2017	13'	Excavated	15.6	38.6	20.4	50.8	9.64	135.04	2,300	15,400	2,500	20,200	95.6
S. BGT SSW	8/28/2017	13'	In-Situ	< 0.0499	< 0.0499	1.04	5.78	2.96	9.78	335	577	65.5	977.5	62.2
S. BGT WSW	8/28/2017	13'	Excavated	< 0.101	1.90	3.23	33.9	7.05	46.08	2,540	2,220	671	5,431	22.5
Exc. B SSWb	10/18/2017	2.5'	In-Situ	-	-	-	-	-	-	197	969	<250	1,166	-
S. BGT ESWb	10/18/2017	15'	In-Situ	<0.196	2.85	2.65	9.4	19	14.99	687	3,140	396	4,223	-
S. BGT WSWb	10/18/2017	15'	In-Situ	-	-	-	-		-	61.0	542	<250	603	-
NMOCD Recomme	ended Remee	liation Actio	on Level	10	-	-	-	-	50	-	-	-	5,000	600



Project Id: Contact: Joel Lowry

**Project Location:** 

Certificate of Analysis Summary 557913

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 West Exc A

Date Received in Lab:Tue Jul-18-17 04:40 pmReport Date:27-JUL-17Project Manager:Kelsey Brooks

	Lab Id:	557913-0	001	557913-0	002	557913-0	003	557913-0	004	557913-0	005	
	Field Id:	Floor		North Side		East Side		South Side		West Side		
Analysis Requested	Depth:	4 ft	7		3 ft		wan	3 ft		3 ft	wan	1
	-							SOIL				
	Matrix:	SOIL				SOIL				SOIL		
	Sampled:	Jul-18-17	10:05	Jul-18-17	0:10	Jul-18-17 1	10:15	Jul-18-17	10:20	Jul-18-17 1	0:25	<u> </u>
BTEX by EPA 8021B	Extracted:	Jul-20-17	12:30	Jul-20-17 1	2:30	Jul-20-17 1	2:30	Jul-20-17	12:30	Jul-20-17 1	2:30	
	Analyzed:	Jul-21-17	06:31	Jul-20-17 2	21:36	Jul-21-17 (	00:44	Jul-21-17 06:58		Jul-20-17 1	9:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		11.5	0.0388	< 0.0194	0.0194	< 0.0180	0.0180	0.0916	0.0398	< 0.0197	0.0197	
Toluene		7.71	0.0388	0.0426	0.0194	0.0180	0.0180	0.311	0.0398	< 0.0197	0.0197	
Ethylbenzene		4.30	0.0388	0.0233	0.0194	0.242	0.0180	0.0916	0.0398	< 0.0197	0.0197	
m,p-Xylenes		12.1	0.0775	0.0523	0.0388	< 0.0359	0.0359	0.562	0.0797	< 0.0394	0.0394	
o-Xylene		2.19	0.0388	< 0.0194	0.0194	< 0.0180	0.0180	0.0916	0.0398	< 0.0197	0.0197	
Total Xylenes		14.3	0.0388	0.0523	0.0194	< 0.0180	0.0180	0.654	0.0398	< 0.0197	0.0197	
Total BTEX		37.8	0.0388	0.118	0.0194	0.260	0.0180	1.15	0.0398	< 0.0197	0.0197	
Chloride by EPA 300	Extracted:	Jul-24-17	12:00	Jul-24-17 12:00		Jul-24-17 12:00		Jul-24-17 12:00		Jul-21-17 1	3:00	
	Analyzed:	Jul-24-17	17:10	Jul-24-17 17:22		Jul-24-17 17:34		Jul-24-17 17:47		Jul-24-17 1	2:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		81.3	25.0	222	25.0	44.8	25.0	52.9	25.0	<25.0	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17	16:15	Jul-26-17 1	6:15	Jul-26-17 1	6:15	Jul-26-17	16:15	Jul-26-17 1	6:15	
	Analyzed:	Jul-27-17	06:56	Jul-27-17 (	7:29	Jul-27-17 (	08:02	Jul-27-17 (	08:35	Jul-27-17 0	9:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)		1190	250	516	250	591	250	4250	250	<25.0	25.0	
Oil Range Hydrocarbons (ORO)		<250	250	<250	250	<250	250	584	250	<25.0	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-21-17	14:00	Jul-20-17 1	2:30	Jul-20-17 1	2:30	Jul-21-17	14:00	Jul-20-17 1	2:30	
	Analyzed:	Jul-22-17	03:57	Jul-20-17 2	21:36	Jul-21-17 (	00:44	Jul-22-17 04:25		Jul-20-17 19:49		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO	· · · · · · · · · · · · · · · · · · ·	1420	386	<3.88	3.88	19.9	3.59	<7.55	7.55	<3.94	3.94	

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 Roah

Kelsey Brooks Project Manager

Final 1.000

# Analytical Report 557913

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Jal #3 West Exc A

#### 27-JUL-17

Collected By: Client



#### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

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)



27-JUL-17

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **557913** Jal #3 West Exc A Project Address:

#### Joel Lowry:

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) 557913. 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. 557913 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 557913

## TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 4'	S	07-18-17 10:05	- 4 ft	557913-001
North Sidewall	S	07-18-17 10:10	- 3 ft	557913-002
East Sidewall	S	07-18-17 10:15	- 3 ft	557913-003
South Sidewall	S	07-18-17 10:20	- 3 ft	557913-004
West Sidewall	S	07-18-17 10:25	- 3 ft	557913-005



Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc A

Project ID: Work Order Number(s): 557913 
 Report Date:
 27-JUL-17

 Date Received:
 07/18/2017

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3022806 BTEX by EPA 8021B Surrogate a,a,a-Trifluorotoluene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 557913-004,557913-001. Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3022966 TPH GRO by EPA 8015 Mod. Sample 557913-004 was diluted due to hydrocarbons beyond xylene.

Batch: LBA-3023296 DRO-ORO By SW8015B Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 557913-001,557913-002,557913-003,557913-004.



## TRC Solutions, Inc, Midland, TX

Chloride         16887-00-6         81.3         25.0         mg/kg         07.24.17         17.10           Analytical Method:         DRO-ORO By SW8015B         Prep Method:         SW8015P           Tech:         PGM         % Moisture:	<b>Dil</b> 1
Analyst:       RNL       Date Prep:       07.24.17 12.00       Basis:       Wet Weight         Seq Number:       3023036       Cas Number       Result       RL       Units       Analysis Date       Flag       Fla	
Seq Number: 3023036       Parameter     Cas Number     Result     RL     Units     Analysis Date     Flag       Chloride     16887-00-6     81.3     25.0     mg/kg     07.24.17     17.10	
Parameter     Cas Number     Result     RL     Units     Analysis Date     Flag       Chloride     16887-00-6     81.3     25.0     mg/kg     07.24.17 17.10	
Chloride     16887-00-6     81.3     25.0     mg/kg     07.24.17     17.10       Analytical Method: DRO-ORO By SW8015B     Prep Method: SW8015P     % Moisture:	
Analytical Method: DRO-ORO By SW8015B     Prep Method: SW8015P       Tech:     PGM       % Moisture:	1
Tech: PGM % Moisture:	
Tech: PGM % Moisture:	
Analyst:PGMDate Prep:07.26.17 16.15Basis:Wet Weighta. N. J.2022206	
Seq Number: 3023296	
Parameter Cas Number Result RL Units Analysis Date Flag	Dil
Diesel Range Organics (DRO)         C10C28DRO         1190         250         mg/kg         07.27.17 06.56	10
Oil Range Hydrocarbons (ORO)         PHCG2835         <250         250         mg/kg         07.27.17 06.56         U	10
SurrogateCas Number RecoveryUnitsLimitsAnalysis DateFlagTricosane638-67-5266%65-14407 27 17 06 56**	
Tricosane         638-67-5         266         %         65-144         07.27.17         06.56         **           n-Triacontane         638-68-6         300         %         46-152         07.27.17         06.56         **	
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B	
Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BTech:MIT% Moisture:	
Tech: MIT % Moisture:	
Tech:MIT% Moisture:Analyst:MITDate Prep:07.20.17 12.30Basis:Wet WeightSeq Number:3022806	Dil
Tech:MIT% Moisture:Analyst:MITDate Prep:07.20.17 12.30Basis:Wet WeightSeq Number:3022806	<b>Dil</b>
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Cas Number       Result       RL       Units       Analysis Date       Flag       MIT         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31       Flag       MIT         Toluene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31       Mit	
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       RL       Units       Analysis Date       Flag       Flag         Parameter       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31       Flag       Flag         Toluene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31       Flag         Ethylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31       The second s	2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Result       RL       Units       Analysis Date       Flag       I         Parameter       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31       Flag       I         Benzene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31       I         Fthylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31       I         m.p-Xylenes       179601-23-1       12.1       0.0775       mg/kg       07.21.17 06.31	2 2 2 2 2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Result       RL       Units       Analysis Date       Flag       Flag       MIT         Parameter       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31       Flag       MIT         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31       Flag       MIT         Benzene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31       Mit         Full       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31       Mit         o-Xylene       95-47-6       2.19       0.0388       mg/kg       07.21.17 06.31       Mit	2 2 2 2 2 2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Cas Number       Result       RL       Units       Analysis Date       Flag       I         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31         Toluene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31         Ethylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31         o-Xylene       95-47-6       2.19       0.0388       mg/kg       07.21.17 06.31         Total Xylenes       1330-20-7       14.3       0.0388       mg/kg       07.21.17 06.31	2 2 2 2 2 2 2 2 2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       RL       Units       Analysis Date       Flag       Flag         Parameter       Cas Number       Result       RL       Units       Analysis Date       Flag       Flag         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31         Fthylbenzene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31         Fthylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31         o-Xylene       95-47-6       2.19       0.0388       mg/kg       07.21.17 06.31         Total Xylenes       1330-20-7       14.3       0.0388       mg/kg       07.21.17 06.31         Total BTEX       37.8       0.0388       mg/kg       07.21.17 06.31	2 2 2 2 2 2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Result       RL       Units       Analysis Date       Flag       Flag         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31         Benzene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31         Ethylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31         o-Xylene       95-47-6       2.19       0.0388       mg/kg       07.21.17 06.31         Total Xylenes       1330-20-7       14.3       0.0388       mg/kg       07.21.17 06.31         Total BTEX       37.8       0.0388       mg/kg       07.21.17 06.31       Multicity	2 2 2 2 2 2 2 2 2
Tech:       MIT       % Moisture:         Analyst:       MIT       Date Prep:       07.20.17 12.30       Basis:       Wet Weight         Seq Number:       3022806       Result       RL       Units       Analysis Date       Flag       Flag         Benzene       71-43-2       11.5       0.0388       mg/kg       07.21.17 06.31         Toluene       108-88-3       7.71       0.0388       mg/kg       07.21.17 06.31         Ethylbenzene       100-41-4       4.30       0.0388       mg/kg       07.21.17 06.31         o-Xylene       95-47-6       2.19       0.0388       mg/kg       07.21.17 06.31         Total Xylenes       1330-20-7       14.3       0.0388       mg/kg       07.21.17 06.31         Total BTEX       37.8       0.0388       mg/kg       07.21.17 06.31	2 2 2 2 2 2 2 2 2



## TRC Solutions, Inc, Midland, TX

Sample Id:Floor 4'Lab Sample Id:557913-001	Matrix: Soil Date Collected: 07.18.17 10.05	Date Received:07.18.17 16.40 Sample Depth:4 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022966	Date Prep: 07.21.17 14.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	1420	386		mg/kg	07.22.17 03.57		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	112	%	76-123	07.22.17 03.57		
a,a,a-Trifluorotoluene	(	98-08-8	84	%	69-120	07.22.17 03.57		



#### TRC Solutions, Inc, Midland, TX

Sample Id:North SidewallLab Sample Id:557913-002		Matrix: Date Col	Soil llected: 07.18		Date Received:07.18.17 16.40 ample Depth: 3 ft			
Analytical Method: Chloride by EPA	A 300				F	Prep Method: E3	00P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Pre	n: 07.24	.17 12.00	E	Basis: Wo	et Weight	
Seq Number: 3023036		Ducerre	p				6	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	222	25.0		mg/kg	07.24.17 17.22		1
Analytical Method: DRO-ORO By S	SW8015B				F	rep Method: SV	V8015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Pre	p: 07.26	5.17 16.15	E	Basis: We	et Weight	
Seq Number: 3023296								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	516	250		mg/kg	07.27.17 07.29		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	07.27.17 07.29	U	10
Summagata		Cas Number	%	<b>Unit</b> a	Limita	Analysia Data	Flag	
<b>Surrogate</b> Tricosane		638-67-5	Recovery 202	Units %	Limits 65-144	<b>Analysis Date</b> 07.27.17 07.29	Flag **	
n-Triacontane		638-68-6	202 271	70 %	46-152	07.27.17 07.29	**	
Analytical Method: BTEX by EPA	8021B				F	rep Method: SV	V5030B	
Tech: MIT						6 Moisture:		
Analyst: MIT		Date Pre	n: 07.20	0.17 12.30	E	Basis: Wo	et Weight	
Seq Number: 3022806		Duite The	Ρ.				U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0194	0.0194		mg/kg	07.20.17 21.36	U	1
Toluene	108-88-3	0.0426	0.0194		mg/kg	07.20.17 21.36		1
Ethylbenzene	100-41-4	0.0233	0.0194		mg/kg	07.20.17 21.36		1
m,p-Xylenes	179601-23-1	0.0523	0.0388		mg/kg	07.20.17 21.36		1
o-Xylene	95-47-6	< 0.0194	0.0194		mg/kg	07.20.17 21.36	U	1
Total Xylenes	1330-20-7	0.0523	0.0194		mg/kg	07.20.17 21.36		1
Total BTEX		0.118	0.0194		mg/kg	07.20.17 21.36		1
		0.110						
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
Surrogate 4-Bromofluorobenzene			% <b>Recovery</b> 100	Units %	<b>Limits</b> 68-120	<b>Analysis Date</b> 07.20.17 21.36	Flag	



## TRC Solutions, Inc, Midland, TX

Sample Id:North SidewallLab Sample Id:557913-002	Matrix: Soil Date Collected: 07.18.17 10.10	Date Received:07.18.17 16.40 Sample Depth: 3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep: 07.20.17 12.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.88	3.88		mg/kg	07.20.17 21.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	76-123	07.20.17 21.36		
a,a,a-Trifluorotoluene		98-08-8	112	%	69-120	07.20.17 21.36		



#### TRC Solutions, Inc, Midland, TX

Sample Id:East SidewallLab Sample Id:557913-003		Matrix: Soil Date Collected: 07.18.17 10.15			Date Received:07.18.17 16.40 Sample Depth: 3 ft			
Analytical Method: Chloride by EF	PA 300				F	Prep Method: E3	00P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Prep	o <sup>.</sup> 07.24	.17 12.00			et Weight	
Seq Number: 3023036		Duterrep		1, 12,000	_			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.8	25.0		mg/kg	07.24.17 17.34		1
Analytical Method: DRO-ORO By	SW8015B					Prep Method: SW	V8015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Prep	p: 07.26	.17 16.15	E	Basis: We	et Weight	
Seq Number: 3023296								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	591	250		mg/kg	07.27.17 08.02		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	07.27.17 08.02	U	10
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	Recovery 204	%	65-144	07.27.17 08.02	**	
n-Triacontane		638-68-6	217	%	46-152	07.27.17 08.02	**	
Analytical Method: BTEX by EPA Tech: MIT Analyst: MIT	8021B	Date Prep	o: 07.20	.17 12.30	9	Prep Method: SW 6 Moisture: Basis: We	V5030B et Weight	
Tech: MIT	8021B	Date Prep	o: 07.20	.17 12.30	9	6 Moisture:		
Tech: MIT Analyst: MIT	8021B Cas Number		o: 07.20 RL	.17 12.30	9	6 Moisture:		Dil
Tech: MIT Analyst: MIT Seq Number: 3022806				.17 12.30	9 E	6 Moisture: Basis: We	et Weight	<b>Dil</b> 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter	Cas Number	Result	RL	.17 12.30	9 E Units	6 Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene	Cas Number 71-43-2	<b>Result</b> <0.0180	<b>RL</b> 0.0180	.17 12.30	9 E Units mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.44	et Weight Flag	1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	<b>Result</b> <0.0180 <b>0.0180</b> <b>0.242</b> <0.0359	<b>RL</b> 0.0180 0.0180 0.0180 0.0359	.17 12.30	9 E Units mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44	et Weight Flag U	1 1
Tech:MITAnalyst:MITSeq Number:3022806Parameter3022806BenzeneSenzeneTolueneSenzeneEthylbenzeneSenzenem,p-XylenesSenzeneo-XyleneSenzene	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<b>Result</b> <0.0180 <b>0.0180</b> <b>0.242</b> <0.0359 <0.0180	<b>RL</b> 0.0180 0.0180 0.0180 0.0359 0.0180	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture:           Basis:         We           Analysis Date         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44	et Weight Flag U U U	1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Result           <0.0180	<b>RL</b> 0.0180 0.0180 0.0180 0.0359 0.0180 0.0180	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture:           Basis:         We           Analysis Date         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44	et Weight Flag U	1 1 1 1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<b>Result</b> <0.0180 <b>0.0180</b> <b>0.242</b> <0.0359 <0.0180	<b>RL</b> 0.0180 0.0180 0.0359 0.0180 0.0180 0.0180	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture:           Basis:         We           Analysis Date         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44	et Weight Flag U U U	1 1 1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0180	<b>RL</b> 0.0180 0.0180 0.0359 0.0180 0.0180 0.0180 <b>%</b>	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture:           Basis:         We           Analysis Date         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44           07.21.17 00.44         07.21.17 00.44	et Weight Flag U U U	1 1 1 1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0180	<b>RL</b> 0.0180 0.0180 0.0359 0.0180 0.0180 0.0180		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44 07.21.17 00.44	et Weight Flag U U U U U	1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:East SidewallLab Sample Id:557913-003	Matrix:	Soil	Date Receiv	ed:07.18.17 16.40
	Date Collecte	ed: 07.18.17 10.15	Sample Dep	th:3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Methoo % Moisture: Basis:	d: SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	19.9	3.59		mg/kg	07.21.17 00.44		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	4	60-00-4	87	%	76-123	07.21.17 00.44			
a,a,a-Trifluorotoluene	9	98-08-8	102	%	69-120	07.21.17 00.44			



## TRC Solutions, Inc, Midland, TX

Sample Id: South Sidewall		Matrix:	Soil		Γ	Date Received:07.	18.17 16.4	0
Lab Sample Id: 557913-004		Date Coll	lected: 07.18	.17 10.20	Sample Depth: 3 ft			
Analytical Method: Chloride by El	PA 300				F	Prep Method: E30	)0P	
Tech: RNL	11 500					6 Moisture:		
Analyst: RNL		Data Daa		.17 12.00			t Weight	
Seq Number: 3023036		Date Prep	07.24	.17 12.00	L		t weight	
Seq Number. 3023030								
Parameter	Cas Number		RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	25.0		mg/kg	07.24.17 17.47		1
Analytical Method: DRO-ORO By	y SW8015B				F	Prep Method: SW	8015P	
Tech: PGM						6 Moisture:		
Analyst: PGM		Date Prep	or 07.26	.17 16.15			t Weight	
Seq Number: 3023296		Duterre			_			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4250	250		mg/kg	07.27.17 08.35		10
Oil Range Hydrocarbons (ORO)	PHCG2835	584	250		mg/kg	07.27.17 08.35		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	646	%	65-144	07.27.17 08.35	**	
n-Triacontane		638-68-6	1100	%	46-152	07.27.17 08.35	**	
Analytical Method: BTEX by EPA	9021D				г	rep Method: SW	5020P	
Tech: MIT	X 8021B					6 Moisture:	3030D	
			07.20	17 10 20			Waight	
Analyst: MIT Seq Number: 3022806		Date Prep	p: 07.20	.17 12.30	Ľ		t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0916	0.0398		mg/kg	07.21.17 06.58		2
Toluene	108-88-3	0.311	0.0398		mg/kg	07.21.17 06.58		2
Ethylbenzene	100-41-4	0.0916	0.0398		mg/kg	07.21.17 06.58		2
m,p-Xylenes	179601-23-1	0.562	0.0797		mg/kg	07.21.17 06.58		2
o-Xylene	95-47-6	0.0916	0.0398		mg/kg	07.21.17 06.58		2
Total Xylenes	1330-20-7	0.654	0.0398		mg/kg	07.21.17 06.58		2
Total BTEX		1.15	0.0398		mg/kg	07.21.17 06.58		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	68-120	07.21.17 06.58		
a,a,a-Trifluorotoluene		98-08-8	131	%	71-121	07.21.17 06.58	**	



## TRC Solutions, Inc, Midland, TX

Sample Id:South SidewallLab Sample Id:557913-004	Matrix: So Date Collected: 0	oil 7.18.17 10.20	Date Received Sample Depth	:07.18.17 16.40 3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022966	Date Prep: 0	7.21.17 14.00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<7.55	7.55		mg/kg	07.22.17 04.25	U	2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	80	%	76-123	07.22.17 04.25		
a,a,a-Trifluorotoluene	9	98-08-8	89	%	69-120	07.22.17 04.25		



## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>West Sidewall</b> d: 557913-005	Matrix: Date Col	Soil lected: 07.18	.17 10.25	Date Received:07.18.17 16.40 Sample Depth: 3 ft				
Analytical Me	ethod: Chloride by EP.	A 300				P	Prep Method: E30	00P	
Tech:	RNL					9	6 Moisture:		
Analyst:	RNL		Date Pre	p: 07.21	.17 13.00	E	Basis: We	t Weight	
Seq Number:	3023006			L.					
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<25.0	25.0		mg/kg	07.24.17 12.33	U	1
Analytical Me	ethod: DRO-ORO By	SW8015B				P	Prep Method: SW	78015P	
Tech:	PGM					9	6 Moisture:		
Analyst:	PGM		Date Pre	p: 07.26	.17 16.15	Basis: Wet Weight			
Seq Number:	3023296								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Org	ganics (DRO)	C10C28DRO	<25.0	25.0		mg/kg	07.27.17 09.08	U	1
Dil Range Hydro	-	PHCG2835	<25.0	25.0		mg/kg	07.27.17 09.08	U	1
				%		<b>-</b> • •.			
Surrogate			Cas Number	D	Units	Limits	Analysis Date	Flag	
Surrogate Tricosane			<b>Cas Number</b> 638-67-5	Recovery 106	Units %	Limits 65-144	<b>Analysis Date</b> 07.27.17 09.08	Flag	
-				-	Units % %		-	Flag	
Tricosane n-Triaconta	ane		638-67-5	106	%	65-144 46-152	07.27.17 09.08 07.27.17 09.08	-	
Tricosane n-Triaconta Analytical Me	ane ethod: BTEX by EPA	8021B	638-67-5	106	%	65-144 46-152 F	07.27.17 09.08 07.27.17 09.08	-	
Tricosane n-Triaconta Analytical Me Tech:	ane ethod: BTEX by EPA MIT	8021B	638-67-5 638-68-6	106 117	% %	65-144 46-152 P	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture:	75030B	
Tricosane n-Triaconta Analytical Me Tech: Analyst:	ane ethod: BTEX by EPA MIT MIT	8021B	638-67-5	106 117	%	65-144 46-152 P	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture:	-	
Tricosane n-Triaconta Analytical Me Tech:	ane ethod: BTEX by EPA MIT MIT	8021B	638-67-5 638-68-6	106 117	% %	65-144 46-152 P	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture:	75030B	
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number:	ane ethod: BTEX by EPA MIT MIT	8021B Cas Number	638-67-5 638-68-6	106 117	% %	65-144 46-152 P	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture:	75030B	Dil
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter	ane ethod: BTEX by EPA MIT MIT		638-67-5 638-68-6 Date Pre	106 117 p: 07.20	% %	65-144 46-152 P % E	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We	75030B t Weight	<b>Dil</b>
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene	ane ethod: BTEX by EPA MIT MIT	Cas Number	638-67-5 638-68-6 Date Pre <b>Result</b>	106 117 p: 07.20 <b>RL</b>	% %	65-144 46-152 F 9 E Units	07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Analysis Date	75030B t Weight Flag	
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Foluene	ane ethod: BTEX by EPA MIT MIT	<b>Cas Number</b> 71-43-2	638-67-5 638-68-6 Date Pre Result <0.0197	106 117 p: 07.20 <b>RL</b> 0.0197	% %	65-144 46-152 P % E Units mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We <u>Analysis Date</u> 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight Flag U	1
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene n,p-Xylenes	ane ethod: BTEX by EPA MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	638-67-5 638-68-6 Date Pres Result <0.0197 <0.0197 <0.0197 <0.0394	106 117 p: 07.20 <b>RL</b> 0.0197 0.0197 0.0197 0.0394	% %	65-144 46-152 P % E Units mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We <u>Analysis Date</u> 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight Flag U U	1
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene n,p-Xylenes o-Xylene	ane ethod: BTEX by EPA MIT MIT	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-67-5 638-68-6 Date Pre Result <0.0197 <0.0197 <0.0394 <0.0197	106 117 p: 07.20 <b>RL</b> 0.0197 0.0197 0.0197 0.0394 0.0197	% %	65-144 46-152 P % E Units mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Maiss Date 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight Flag U U U U U U U	1 1 1 1 1
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene n,p-Xylenes o-Xylene Fotal Xylenes	ane ethod: BTEX by EPA MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	638-67-5 638-68-6 Date Pre Result <0.0197 <0.0197 <0.0394 <0.0197 <0.0197	106 117 p: 07.20 <b>RL</b> 0.0197 0.0197 0.0197 0.0394 0.0197 0.0197	% %	65-144 46-152 P % B Units Twits mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Moisture: Basis: We 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight <b>Flag</b> U U U U U U U U U	1 1 1 1 1 1
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene m,p-Xylenes o-Xylene Fotal Xylenes	ane ethod: BTEX by EPA MIT MIT	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-67-5 638-68-6 Date Pre Result <0.0197 <0.0197 <0.0394 <0.0197	106 117 P: 07.20 RL 0.0197 0.0197 0.0197 0.0394 0.0197 0.0197 0.0197	% %	65-144 46-152 P % E Units mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Maiss Date 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight Flag U U U U U U U	1 1 1 1 1
Tricosane n-Triaconta Analytical Me Tech: Analyst:	ane ethod: BTEX by EPA MIT MIT 3022806	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-67-5 638-68-6 Date Pre Result <0.0197 <0.0197 <0.0394 <0.0197 <0.0197	106 117 p: 07.20 <b>RL</b> 0.0197 0.0197 0.0197 0.0197 0.0197 0.0197 0.0197 <b>%</b>	% %	65-144 46-152 P % B Units Twits mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Moisture: Basis: We 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight <b>Flag</b> U U U U U U U U U	1 1 1 1 1 1
Tricosane n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate	ane ethod: BTEX by EPA MIT MIT 3022806	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-67-5 638-68-6 Date Pre Result <0.0197 <0.0197 <0.0394 <0.0197 <0.0197 <0.0197 <0.0197 <0.0197	106 117 P: 07.20 RL 0.0197 0.0197 0.0197 0.0394 0.0197 0.0197 0.0197	% %	65-144 46-152 P 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 09.08 07.27.17 09.08 07.27.17 09.08 Prep Method: SW 6 Moisture: Basis: We Moisture: Basis: We 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49 07.20.17 19.49	75030B t Weight Thag U U U U U U U U U U U U U	1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:West SidewallLab Sample Id:557913-005	Matrix: Soil Date Collected: 07.18.1	Date Received:07.18.17 17 10.25Sample Depth: 3 ft	16.40
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep: 07.20.1	Prep Method: SW5030B % Moisture: 7 12.30 Basis: Wet Weig	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94		mg/kg	07.20.17 19.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	76-123	07.20.17 19.49		
a,a,a-Trifluorotoluene		98-08-8	111	%	69-120	07.20.17 19.49		



# **Flagging Criteria**

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

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + 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 557913

## **TRC Solutions, Inc**

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3023006				Solid Date Prep:				ep: 07.2	07.21.17		
MB Sample Id:	728108-1-BLK		LCS Sar	nple Id:	728108-1-	8-1-BKS LCSD Sample Id: 728108-1-BSD						
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	249	100	258	103	90-110	4	20	mg/kg	07.24.17 08:57	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E300	)P	
Seq Number:	3023036			Matrix:	Solid				Date Pre	ep: 07.2	4.17	
MB Sample Id:	728123-1-BLK		LCS Sar	nple Id:	728123-1-	BKS		LCSI	O Sample	Id: 728	23-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	245	98	270	108	90-110	10	20	mg/kg	07.24.17 15:07	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E300	)P	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557905-001		MS San	nple Id:	557905-00	01 S		MSI	D Sample	Id: 5579	005-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	273	109	267	107	80-120	2	20	mg/kg	07.24.17 09:34	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	od: E30	)P	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557913-005		MS Sar	nple Id:	557913-00	05 S		MSI	O Sample	Id: 5579	913-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	261	104	265	106	80-120	2	20	mg/kg	07.24.17 12:45	

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3023036			Matrix:	Soil				Date Pre	ep: 07.2	4.17	
Parent Sample Id:	558233-001		MS Sar	nple Id:	558233-00	01 S		MSI	O Sample	Id: 5582	233-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	331	132	346	138	80-120	4	20	mg/kg	07.24.17 16:44	Х



## QC Summary 557913

#### **TRC Solutions, Inc**

Ana	lytical Method:	DRO-ORO	) By SW8	015B						Pr	ep Metho	od: SW8	3015P	
Seq	Number:	3023296				Matrix:	Solid				Date Pr	ep: 07.2	6.17	
MB	Sample Id:	728282-1-E	BLK		LCS San	nple Id:	728282-1-	BKS		LCSI	O Sample	e Id: 7282	282-1-BSD	
Par	ameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Dies	el Range Organics (	(DRO)	<25.0	100	103	103	88.6	89	63-139	15	20	mg/kg	07.26.17 21:11	
Sur	rogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			mits	Units	Analysis Date	
Trice	osane		112		1	15		102		65	-144	%	07.26.17 21:11	
n-Tri	iacontane		127		1	24		114		46	-152	%	07.26.17 21:11	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3022806 727950-1-BLK	1B	-	Matrix: ple Id:	Solid 727950-1-	-BKS			rep Meth Date Pr D Sample	ep: 07.2	5030B 0.17 950-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0200	2.00	1.88	94	1.87	94	55-120	1	20	mg/kg	07.20.17 16:37	
Toluene	< 0.0200	2.00	1.91	96	1.88	94	77-120	2	20	mg/kg	07.20.17 16:37	
Ethylbenzene	< 0.0200	2.00	1.88	94	1.87	94	77-120	1	20	mg/kg	07.20.17 16:37	
m,p-Xylenes	< 0.0400	4.00	3.77	94	3.77	94	78-120	0	20	mg/kg	07.20.17 16:37	
o-Xylene	< 0.0200	2.00	1.87	94	1.85	93	78-120	1	20	mg/kg	07.20.17 16:37	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene	97		9	6		96		68	3-120	%	07.20.17 16:37	
a,a,a-Trifluorotoluene	97		9	3		95		71	-121	%	07.20.17 16:37	

Analytical Method:	BTEX by EPA 802	1B						P	rep Meth	od: SW5	5030B	
Seq Number:	3022806		I	Matrix:	Soil				Date Pr	ep: 07.2	0.17	
Parent Sample Id:	557913-005		MS San	ple Id:	557913-0	05 S		MS	D Sample	e Id: 5579	913-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0194	1.94	1.50	77	1.44	76	54-120	4	25	mg/kg	07.20.17 20:16	
Toluene	< 0.0194	1.94	1.65	85	1.57	83	57-120	5	25	mg/kg	07.20.17 20:16	
Ethylbenzene	< 0.0194	1.94	1.72	89	1.64	87	58-131	5	25	mg/kg	07.20.17 20:16	
m,p-Xylenes	< 0.0388	3.88	3.45	89	3.29	87	62-124	5	25	mg/kg	07.20.17 20:16	
o-Xylene	< 0.0194	1.94	1.70	88	1.63	86	62-124	4	25	mg/kg	07.20.17 20:16	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
4-Bromofluorobenzene			10	00		102		68	3-120	%	07.20.17 20:16	
a,a,a-Trifluorotoluene			10	02		103		71	1-121	%	07.20.17 20:16	



#### **TRC Solutions, Inc**

Analytical Method:	TPH GRO by El	PA 8015 Moo	l.					Pr	ep Meth	od: SW:	5030B	
Seq Number:	3022814			Matrix:	Solid				Date Pr	ep: 07.2	0.17	
MB Sample Id:	727951-1-BLK		LCS Sat	nple Id:	727951-1	-BKS		LCS	D Sample	e Id: 7279	951-1-BSD	
Parameter	M Resu		LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.	00 20.0	17.6	88	21.3	107	35-129	19	20	mg/kg	07.20.17 17:32	
Surrogate	M %F			CS Rec	LCS Flag	LCSI %Re	_		mits	Units	Analysis Date	
4-Bromofluorobenzene	8	3		93		103		76	-123	%	07.20.17 17:32	
a,a,a-Trifluorotoluene	10	5	1	02		112		69	-120	%	07.20.17 17:32	

Analytical Method:	TPH GRO by EPA	A 8015 Mod.						Pr	ep Meth	od: SW3	5030B	
Seq Number:	3022966			Matrix:	Solid				Date Pr	ep: 07.2	1.17	
MB Sample Id:	728047-1-BLK		LCS Sat	nple Id:	728047-1	-BKS		LCS	D Sample	e Id: 7280	)47-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.8	89	19.0	95	35-129	7	20	mg/kg	07.22.17 00:24	
Surrogate	MB %Re	MB c Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene	84		:	87		92		76	-123	%	07.22.17 00:24	
a,a,a-Trifluorotoluene	100		1	90		92		69	-120	%	07.22.17 00:24	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pr	ep Metho	od: SW3	5030B	
Seq Number:	3022814				Matrix:	Soil				Date Pr	ep: 07.2	0.17	
Parent Sample Id:	557913-002	2		MS San	nple Id:	557913-00	02 S		MS	D Sample	e Id: 5579	913-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<3.76	18.8	19.0	101	18.5	97	35-129	3	20	mg/kg	07.20.17 22:03	
Surrogate					AS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene				ç	99		106		76	-123	%	07.20.17 22:03	
a,a,a-Trifluorotoluene				ç	99		103		69	-120	%	07.20.17 22:03	

Analytical Method:		by EPA	8015 Mod.			a			Pı	ep Meth		5030B	
Seq Number:	3022966				Matrix:	Soil				Date Pr	ep: 07.2	1.17	
Parent Sample Id:	557913-004	4		MS San	nple Id:	557913-00	)4 S		MS	D Sample	e Id: 5579	913-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<6.99	35.0	16.4	47	14.0	40	35-129	16	20	mg/kg	07.22.17 04:52	
Surrogate					AS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene				8	39		89		76	-123	%	07.22.17 04:52	
a,a,a-Trifluorotoluene				8	84		86		69	-120	%	07.22.17 04:52	



# CHAIN OF CUSTODY

Service Center- Amarillo, TX (806)678-4514 Service Center- Hobbs, NM (575) 392-7550	V	Matrix Codes		W = Water	o - sourcedraodid GW = Drinking Water DW = Drinking Water	P = Product	ow = oundee water SL - Sludge OW = OceaniSpa Water		WW = Waste Water A = Air				Field Comments	00	007	ic do	ODEL	No N	000										**				On Ice Cooler Temp. Thermo. Corr. Factor
je, LA (832) 712-	ote # Xenco Job #	Analytical Information										-10	)											Notes:					FED-EX / UPS: Tracking #		Date Time: Received By:	Date Time: Z Received By:	Preserved where applicable 0
Phoenix, AZ (480) 355-0900 Service Center - Baton Rou <u>c</u> IXenco Ourte #	אפוונכס לתכ				17,	7	m	17	208	Number of preserved bottles	-7 +(													Level IV (Fuil Data Pko from data)	TRRD I avoi IV		114- 54/ 100			SESSION, INCLUDING COURIER DELIVERY Relinguished Bur		Relinquished By: Da	dy Seal # Preserve
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334	www.xenco.com	Droipné Inference:	Project Name/Number:	act contract	Jal #3 West Exc. 4		ETC CID DOSO Slave		PO Number:	Collection Number of pre	ə uz/	te Matrix hortflos				C.01	10:50	1 10:25 × V					Data Deliverable Information	Level II Std QC	Level III Std QC+ Forms	Level 3 (CLP Forms)		Level II Report with TRRP checklist	ecerved by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED REI OW EACH THE EAUND TO CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL	Received By: Received By:	1		Reinquished by: Reinquished by: Received By Coverage Soult Preserved where applicable On Lee Cool
Lubbock, TX (806) 794-1296			Proj	Ommerce Dr. & Proj	15	Phyone No:	4450		PON			Depth Date	5	2	14		~ ~ ~	2						5 Day TAT	7 Day TAT	Contract TAT			WILE CUSTODY MUST BE DOCUMEN	Date Time:	T the		Date Time:
Dailas, TX (214) 902-0300		Client / Reporting Information	Company Arme / Branch: U. H. D.C.	5	midland Tr	Tresolutions/	id i	Project OUN		No. Field ID / Boint of Colloceise			1 Floor Q4	2 North Sidewall	East 5;	South	West S		1 0	8	0	10	rumaround time (Business days)	Same Day TAT	Next Day EMERGENCY	2 Day EMERGENCY	3 Day EMERGENCY	TAT Starts Dav received hv Lab if continue to 5		Sampler:	Relinduished by:	< n.	Keinquished by:

Final 1.000



# **XENCO Laboratories**



BORATORIES Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	ceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 07/18/2017 04:40:00 PM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 557913	Temperature Measuring device used :					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	4.9					
#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?	Νο					
#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)?	Νο					

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

Analyst:

PH Device/Lot#:

#21 VOC samples have zero headspace?

Date: 07/19/2017

N/A

 Checklist completed by:
 Brenda Ward

 Brenda Ward
 Brenda Ward

 Checklist reviewed by:
 Mang Mosah

 Kelsey Brooks
 Kelsey Brooks

Date: 07/19/2017



Project Id: Contact: Joel Lowry

#### **Project Location:**

Certificate of Analysis Summary 557911

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 West Exc B

Date Received in Lab:Tue Jul-18-17 05:45 pmReport Date:27-JUL-17Project Manager:Kelsey Brooks

	Lab Id:	557911-001		557911-0	002	557911-003		557911-004		557911-005		
Analysis Requested	Field Id:	Floor @ 3'		North Side	wall	East Sidewall		South Sidewall		West Sidewall		
	Depth:	3 ft		2 ft		2 ft		2 ft		2 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Jul-17-17 12:00		Jul-17-17 12:05 Ju		Jul-17-17 1	Jul-17-17 12:10		Jul-17-17 12:15		2:20	
BTEX by EPA 8021B	Extracted:	Jul-20-17 12:30		Jul-20-17 12:30		Jul-20-17 12:30		Jul-20-17 12:30		Jul-20-17 1	2:30	
	Analyzed:	Jul-21-17 01:11		Jul-21-17 06:04		Jul-21-17 01:38		Jul-21-17 02:04		Jul-21-17 02:31		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.164	0.362	< 0.00832	0.0184	< 0.0392	0.0867	< 0.0425	0.0940	< 0.0167	0.0370	
Toluene		1.63	0.362	0.0497	0.0184	0.0607 J	0.0867	0.103	0.0940	0.0222 J	0.0370	
Ethylbenzene		< 0.112	0.362	1.18	0.0184	< 0.0267	0.0867	1.67	0.0940	0.251	0.0370	
m,p-Xylenes		16.4	0.725	< 0.00628	0.0368	0.321	0.173	< 0.0320	0.188	< 0.0126	0.0739	
o-Xylene		2.90	0.362	0.333	0.0184	< 0.0295	0.0867	< 0.0320	0.0940	< 0.0126	0.0370	
Xylenes, Total		19.3	0.362	0.333	0.0184	0.321	0.0867	< 0.0940	0.0940	< 0.0370	0.0370	
Total BTEX		20.9	0.362	1.56	0.0184	0.382	0.0867	1.77	0.0940	0.273	0.0370	
Chloride by EPA 300	Extracted:	Jul-21-17 13:00		Jul-21-17 13:00		Jul-21-17 13:00		Jul-21-17 13:00		Jul-21-17 1	3:00	
	Analyzed:	Jul-24-17 13:10		Jul-24-17 13:22		Jul-24-17 13:35		Jul-24-17 13:47		Jul-24-17 14:00		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		44.7	25.0	306	25.0	<25.0	25.0	103	25.0	65.7	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17 16:15		Jul-26-17 16:15		Jul-26-17 16:15		Jul-26-17 16:15		Jul-26-17 16:15		
	Analyzed:	Jul-27-17 04:10		Jul-27-17 04:43		Jul-27-17 05:17		Jul-27-17 05:50		Jul-27-17 06:23		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO) <250 250		250	3700	250	2820	250	4700	250	3690	250		
Oil Range Hydrocarbons (ORO)		317	250	571	250	566	250	725	250	762	250	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-21-17 14:00		Jul-21-17 14:00		Jul-20-17 12:30		Jul-20-17 12:30		Jul-20-17 12:30		
	Analyzed:	Jul-22-17 03:04		Jul-22-17 03:30		Jul-21-17 01:38		Jul-21-17 02:04		Jul-21-17 02:31		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO		1660	200	89.7	19.6	27.1	17.3	95.1	18.8	12.5	7.39	

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 Roah

Kelsey Brooks Project Manager

Page 1 of 21
# Analytical Report 557911

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Jal #3 West Exc B

## 27-JUL-17

Collected By: Client



#### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

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)



27-JUL-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **557911** Jal #3 West Exc B Project Address:

#### Joel Lowry:

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) 557911. 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. 557911 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 557911

## TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 3'	S	07-17-17 12:00	- 3 ft	557911-001
North Sidewall	S	07-17-17 12:05	- 2 ft	557911-002
East Sidewall	S	07-17-17 12:10	- 2 ft	557911-003
South Sidewall	S	07-17-17 12:15	- 2 ft	557911-004
West Sidewall	S	07-17-17 12:20	- 2 ft	557911-005



Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc B

Project ID: Work Order Number(s): 557911 
 Report Date:
 27-JUL-17

 Date Received:
 07/18/2017

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3022806 BTEX by EPA 8021B Samples 557911-001, 557911-003, 557911-004, and 557911-005 were diluted due to excessive hydrocarbons beyond xylene.

Batch: LBA-3023296 DRO-ORO By SW8015B

Surrogate Tricosane recovered below QC limits. Matrix interferences is suspected; data confirmed by reanalysis.

Samples affected are: 557911-001.

Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 557911-001,557911-002,557911-003,557911-004,557911-005.

Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by reanalysis.

Samples affected are: 557911-002,557911-003,557911-004,557911-005.



## TRC Solutions, Inc, Midland, TX

Sample Id:         Floor @ 3'           Lab Sample Id:         557911-001		Matrix: Date Coll	Soil ected: 07.17	7.17 12.00		Date Received:07		5
Analytical Method: Chloride by E	PA 300				F	Prep Method: E3	00P	
Tech: RNL						% Moisture:		
Analyst: RNL		Date Prep	· 07.21	.17 13.00	E	Basis: We	et Weight	
Seq Number: 3023006		Date 110p					0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.7	25.0		mg/kg	07.24.17 13.10		1
Analytical Method: DRO-ORO B	v SW8015B				F	Prep Method: SW	/8015P	
Tech: PGM	, ~					% Moisture:		
Analyst: PGM		Date Prep	·· 07.26	5.17 16.15			et Weight	
Seq Number: 3023296		Date Flep	<i>.</i> 07.20		L	- W	e noight	
Seq Pulliber. 5025296								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<250	250		mg/kg	07.27.17 04.10	U	10
Oil Range Hydrocarbons (ORO)	PHCG2835	317	250		mg/kg	07.27.17 04.10		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	17	%	65-144	07.27.17 04.10	***	
n-Triacontane		638-68-6	287	%	46-152	07.27.17 04.10	**	
Analytical Method: BTEX by EPA	A 8021B					Prep Method: SW	V5030B	
Tech: MIT						% Moisture:		
Analyst: MIT		Date Prep	o: 07.20	0.17 12.30	E	Basis: We	et Weight	
Seq Number: 3022806								
Parameter		Result	DI	MDI	Units	Analysis Date	Flag	
	Cas Number	Kesuit	RL	MDL	Onits		8	Dil
Benzene	Cas Number 71-43-2	<0.164	0.362	0.164	mg/kg	07.21.17 01.11	U	<b>Dil</b> 20
Benzene Toluene						-	-	
	71-43-2 108-88-3 100-41-4	<0.164	0.362 0.362 0.362	0.164 0.0848 0.112	mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	-	20 20 20
Toluene Ethylbenzene m,p-Xylenes	71-43-2 108-88-3 100-41-4 179601-23-1	<0.164 <b>1.63</b> <0.112 <b>16.4</b>	0.362 0.362 0.362 0.725	0.164 0.0848 0.112 0.124	mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20
Toluene Ethylbenzene m,p-Xylenes o-Xylene	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.164 <b>1.63</b> <0.112 <b>16.4</b> <b>2.90</b>	0.362 0.362 0.362 0.725 0.362	0.164 0.0848 0.112 0.124 0.124	mg/kg mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20 20 20
Toluene Ethylbenzene m,p-Xylenes o-Xylene Xylenes, Total	71-43-2 108-88-3 100-41-4 179601-23-1	<0.164 <b>1.63</b> <0.112 <b>16.4</b> <b>2.90</b> <b>19.3</b>	0.362 0.362 0.362 0.725 0.362 0.362	0.164 0.0848 0.112 0.124 0.124 0.124	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20 20 20 20
Toluene Ethylbenzene m,p-Xylenes o-Xylene	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.164 <b>1.63</b> <0.112 <b>16.4</b> <b>2.90</b>	0.362 0.362 0.362 0.725 0.362 0.362 0.362	0.164 0.0848 0.112 0.124 0.124	mg/kg mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20 20 20
Toluene Ethylbenzene m,p-Xylenes o-Xylene Xylenes, Total	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.164 <b>1.63</b> <0.112 <b>16.4</b> <b>2.90</b> <b>19.3</b> <b>20.9</b>	0.362 0.362 0.362 0.725 0.362 0.362 0.362 9%	0.164 0.0848 0.112 0.124 0.124 0.124	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20 20 20 20
Toluene Ethylbenzene m,p-Xylenes o-Xylene Xylenes, Total Total BTEX	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.164 <b>1.63</b> <0.112 <b>16.4</b> <b>2.90</b> <b>19.3</b> <b>20.9</b>	0.362 0.362 0.362 0.725 0.362 0.362 0.362	0.164 0.0848 0.112 0.124 0.124 0.124 0.124 0.0848	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11 07.21.17 01.11	U	20 20 20 20 20 20 20



## TRC Solutions, Inc, Midland, TX

Sample Id:         Floor @ 3'           Lab Sample Id:         557911-001	Matrix: Soil Date Collected: 07.17.17 12.00	Date Received:07.18.17 17.45 Sample Depth: 3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022966	Date Prep: 07.21.17 14.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	1660	200		mg/kg	07.22.17 03.04		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	120	%	76-123	07.22.17 03.04		
a,a,a-Trifluorotoluene	9	98-08-8	91	%	69-120	07.22.17 03.04		



## TRC Solutions, Inc, Midland, TX

Sample Id: North Sidewall		Matrix:	Soil		Γ	Date Received:07.	18.17 17.4	5
Lab Sample Id: 557911-002		Date Colle	ected: 07.17	.17 12.05	S	ample Depth: 2 f	t	
Analytical Mathedy Chlorida by FI	24 200				п	ran Mathady E2(	)0 <b>D</b>	
Analytical Method: Chloride by EF	A 300					rep Method: E30	<i>J</i> 0F	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Prep	: 07.21	.17 13.00	E	asis: We	t Weight	
Seq Number: 3023006								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	306	25.0		mg/kg	07.24.17 13.22		1
Analytical Method: DRO-ORO By	SW8015B				Р	rep Method: SW	8015P	
Tech: PGM						6 Moisture:		
Analyst: PGM		Date Prep	· 07.26	.17 16.15			t Weight	
Seq Number: 3023296		Date Trep	. 07.20	.17 10.15	Ľ		e weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	3700	250		mg/kg	07.27.17 04.43		10
Oil Range Hydrocarbons (ORO)	PHCG2835	571	250		mg/kg	07.27.17 04.43		10
5			%	<b>T</b> T . •4	<b>T</b> • • • •			
Surrogate			Recovery	Units	Limits	Analysis Date	Flag **	
Tricosane n-Triacontane		638-67-5 638-68-6	716 467	% %	65-144 46-152	07.27.17 04.43 07.27.17 04.43	**	
Analytical Method: BTEX by EPA	.8021B				Р	rep Method: SW	5030B	
Tech: MIT						6 Moisture:		
					%			
Analyst: MIT		Date Pren	· 07.20	17 12 30			t Weight	
Analyst: MIT Seq Number: 3022806		Date Prep	: 07.20	.17 12.30			t Weight	
Seq Number: 3022806	Cas Number	-	: 07.20 RL	.17 12.30 MDL			t Weight Flag	Dil
Seq Number: 3022806 Parameter	<b>Cas Number</b> 71-43-2	-			B	Basis: We	-	<b>Dil</b>
Seq Number: 3022806 Parameter Benzene		Result	RL	MDL	EUnits	asis: We Analysis Date	Flag	
Seq Number: 3022806 Parameter Benzene Foluene	71-43-2	Result <0.00832	<b>RL</b> 0.0184	<b>MDL</b> 0.00832	E Units mg/kg	Basis: We Analysis Date 07.21.17 06.04	Flag	1
Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene	71-43-2 108-88-3	Result <0.00832 0.0497	<b>RL</b> 0.0184 0.0184	MDL 0.00832 0.00431	E Units mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04	Flag	1
Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene m,p-Xylenes	71-43-2 108-88-3 100-41-4	Result <0.00832 0.0497 1.18	<b>RL</b> 0.0184 0.0184 0.0184	MDL 0.00832 0.00431 0.00567	E Units mg/kg mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04	Flag U	1 1 1
Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	71-43-2 108-88-3 100-41-4 179601-23-1	Result <0.00832 0.0497 1.18 <0.00628	<b>RL</b> 0.0184 0.0184 0.0184 0.0368 0.0184 0.0184	MDL 0.00832 0.00431 0.00567 0.00628 0.00628 0.00628	Units Mg/kg mg/kg mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04	Flag U	1 1 1 1
Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Xylenes, Total	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result <0.00832 0.0497 1.18 <0.00628 0.333	<b>RL</b> 0.0184 0.0184 0.0184 0.0368 0.0184 0.0184 0.0184	MDL 0.00832 0.00431 0.00567 0.00628 0.00628	Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04	Flag U	1 1 1 1 1
<u> </u>	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result <0.00832 0.0497 1.18 <0.00628 0.333 0.333 1.56	RL 0.0184 0.0184 0.0184 0.0368 0.0184 0.0184 0.0184 %	MDL 0.00832 0.00431 0.00567 0.00628 0.00628 0.00628	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04	Flag U	1 1 1 1 1 1 1
Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m.p-Xylenes o-Xylene Xylenes, Total Total BTEX	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result <0.00832 0.0497 1.18 <0.00628 0.333 0.333 1.56	<b>RL</b> 0.0184 0.0184 0.0184 0.0368 0.0184 0.0184 0.0184	MDL 0.00832 0.00431 0.00567 0.00628 0.00628 0.00628 0.00628	E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04           07.21.17 06.04	Flag U U	1 1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:North SidewallLab Sample Id:557911-002	Matrix:	Soil	Date Receiv	ed:07.18.17 17.45
	Date Collecte	ed: 07.17.17 12.05	Sample Dep	th:2 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022966	Date Prep:	07.21.17 14.00	Prep Methoo % Moisture: Basis:	d: SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	89.7	19.6		mg/kg	07.22.17 03.30		5	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	4	60-00-4	110	%	76-123	07.22.17 03.30			
a,a,a-Trifluorotoluene	9	8-08-8	92	%	69-120	07.22.17 03.30			



## TRC Solutions, Inc, Midland, TX

Sample Id:East SidewallLab Sample Id:557911-003		Matrix: Soil Date Collected: 07.17.17 12.10		7.17 12.10		Date Received:07. Sample Depth: 2		5
Analytical Method: Chloride by E	PA 300				F	Prep Method: E3	00P	
Tech: RNL					9	6 Moisture:		
Analyst: RNL		Date Pre	p: 07.21	1.17 13.00	E	Basis: We	et Weight	
Seq Number: 3023006		,					U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0		mg/kg	07.24.17 13.35	U	1
Analytical Method: DRO-ORO By	y SW8015B				F	Prep Method: SW	/8015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Pre	p: 07.26	5.17 16.15	E	Basis: We	et Weight	
Seq Number: 3023296		,	F ·				U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	2820	250		mg/kg	07.27.17 05.17		10
Oil Range Hydrocarbons (ORO)	PHCG2835	566	250		mg/kg	07.27.17 05.17		10
		<i>a</i> <b>v v</b>	%	<b>.</b>	<b></b>			
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
Tricosane n-Triacontane		638-67-5 638-68-6	748 610	% %	65-144 46-152	07.27.17 05.17 07.27.17 05.17	**	
Analytical Method: BTEX by EPA	A 8021B				F	Prep Method: SW	/5030B	
Tech: MIT					9	6 Moisture:		
Analyst: MIT		Date Pre	p: 07.20	).17 12.30	E	Basis: We	et Weight	
Seq Number: 3022806							U	
Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0392	0.0867	0.0392	mg/kg	07.21.17 01.38	U	5
Toluene	108-88-3	0.0607	0.0867	0.0203	mg/kg	07.21.17 01.38	J	5
Ethylbenzene	100-41-4	< 0.0267	0.0867	0.0267	mg/kg	07.21.17 01.38	U	5
m,p-Xylenes	179601-23-1	0.321	0.173	0.0295	mg/kg	07.21.17 01.38		5
o-Xylene	95-47-6	< 0.0295	0.0867	0.0295	mg/kg	07.21.17 01.38	U	5
Xylenes, Total	1330-20-7	0.321	0.0867	0.0295	mg/kg	07.21.17 01.38		5
Total BTEX		0.382	0.0867	0.0203	mg/kg	07.21.17 01.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	68-120	07.21.17 01.38		



## TRC Solutions, Inc, Midland, TX

Sample Id:East SidewallLab Sample Id:557911-003	Matrix:	Soil	Date Receiv	ed:07.18.17 17.45
	Date Collecte	ed: 07.17.17 12.10	Sample Dep	th:2 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Methoo % Moisture: Basis:	d: SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	27.1	17.3		mg/kg	07.21.17 01.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	76-123	07.21.17 01.38		
a,a,a-Trifluorotoluene		98-08-8	94	%	69-120	07.21.17 01.38		



## TRC Solutions, Inc, Midland, TX

Sample Id:South SidewallLab Sample Id:557911-004		Matrix: Soil Date Collected: 07.17.17 12.15		7.17 12.15		Date Received:07.18.17 17.45 Sample Depth: 2 ft		5
Analytical Method: Chloride by E	PA 300				F	Prep Method: E3	00P	
Tech: RNL					9	6 Moisture:		
Analyst: RNL		Date Pre	p: 07.2	1.17 13.00	E	Basis: We	et Weight	
Seq Number: 3023006			L.				U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	25.0		mg/kg	07.24.17 13.47		1
Analytical Method: DRO-ORO B	y SW8015B				F	Prep Method: SW	/8015P	
Tech: PGM					9	6 Moisture:		
Analyst: PGM		Date Pre	n <sup>.</sup> 07.26	5.17 16.15	E	Basis: We	et Weight	
Seq Number: 3023296		Duterre	p				8	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4700	250		mg/kg	07.27.17 05.50		10
Oil Range Hydrocarbons (ORO)	PHCG2835	725	250		mg/kg	07.27.17 05.50		10
			%		0 0			
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
Tricosane n-Triacontane		638-67-5 638-68-6	979 821	% %	65-144 46-152	07.27.17 05.50 07.27.17 05.50	**	
Analytical Method: BTEX by EPA	A 8021B				F	Prep Method: SW	/5030B	
Tech: MIT					9	6 Moisture:		
Analyst: MIT		Date Pre	p: 07.20	).17 12.30	E	Basis: We	et Weight	
Seq Number: 3022806			1				U	
Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0425	0.0940	0.0425	mg/kg	07.21.17 02.04	U	5
Toluene	108-88-3	0.103	0.0940	0.0220	mg/kg	07.21.17 02.04		5
Ethylbenzene	100-41-4	1.67	0.0940	0.0289	mg/kg	07.21.17 02.04		5
m,p-Xylenes	179601-23-1	< 0.0320	0.188	0.0320	mg/kg	07.21.17 02.04	U	5
o-Xylene	95-47-6	< 0.0320	0.0940	0.0320	mg/kg	07.21.17 02.04	U	5
Xylenes, Total	1330-20-7	< 0.0940	0.0940	0.0320	mg/kg	07.21.17 02.04	U	5
Total BTEX		1.77	0.0940	0.0220	mg/kg	07.21.17 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	68-120	07.21.17 02.04		
a,a,a-Trifluorotoluene		98-08-8	101	%	71-121	07.21.17 02.04		



## TRC Solutions, Inc, Midland, TX

Sample Id:South SidewallLab Sample Id:557911-004	Matrix:	Soil	Date Receive	ed:07.18.17 17.45
	Date Collecte	d: 07.17.17 12.15	Sample Dept	th:2 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Method % Moisture: Basis:	l: SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	95.1	18.8		mg/kg	07.21.17 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	102	%	76-123	07.21.17 02.04		
a,a,a-Trifluorotoluene	9	98-08-8	95	%	69-120	07.21.17 02.04		



## TRC Solutions, Inc, Midland, TX

Sample Id: West Sidewall		Matrix:	Soil		Γ	Date Received:07.	18.17 17.4	5	
Lab Sample Id: 557911-005		Date Colle	ected: 07.17	.17 12.20	Sample Depth: 2 ft				
Analytical Method: Chloride by E	FPA 300				P	Prep Method: E30	)0P		
Tech: RNL	111,500					6 Moisture:	01		
Analyst: RNL			07.21	.17 13.00			t Woight		
Seq Number: 3023006		Date Prep	: 07.21	.17 15.00	Ľ	asis. we	t Weight		
Seq Number: 5025000									
Parameter	Cas Number		RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	65.7	25.0		mg/kg	07.24.17 14.00		1	
Analytical Method: DRO-ORO B	y SW8015B				P	Prep Method: SW	8015P		
Tech: PGM	-					6 Moisture:			
Analyst: PGM		Date Prep	07.26	.17 16.15			t Weight		
Seq Number: 3023296		Dute Trep			_				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Diesel Range Organics (DRO)	C10C28DRO	3690	250		mg/kg	07.27.17 06.23		10	
Oil Range Hydrocarbons (ORO)	PHCG2835	762	250		mg/kg	07.27.17 06.23		10	
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag		
Tricosane		638-67-5	Recovery 850	%	65-144	07.27.17 06.23	**		
n-Triacontane		638-68-6	1200	%	46-152	07.27.17 06.23	**		
Analytical Method: BTEX by EPA Tech: MIT	A 8021B					Prep Method: SW 6 Moisture:	5030B		
Tech: MIT	A 8021B	Date Pren	. 07.20	.17 12.30	%	6 Moisture:			
	A 8021B	Date Prep	: 07.20	.17 12.30	%	6 Moisture:	75030B t Weight		
Tech:MITAnalyst:MITSeq Number:3022806	A 8021B Cas Number	-	r: 07.20 RL	.17 12.30 MDL	%	6 Moisture:		Dil	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter		-			9 E	6 Moisture: Basis: We	t Weight	<b>Dil</b> 2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene	Cas Number	Result <0.0167 0.0222	RL	MDL	% E Units	6 Moisture: Basis: We Analysis Date	t Weight Flag		
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene	Cas Number 71-43-2 108-88-3 100-41-4	Result <0.0167 0.0222 0.251	<b>RL</b> 0.0370 0.0370 0.0370	MDL 0.0167 0.00865 0.0114	% E Units mg/kg	6 Moisture: Basis: Wer Analysis Date 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J	2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene n,p-Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Result <0.0167 0.0222 0.251 <0.0126	<b>RL</b> 0.0370 0.0370 0.0370 0.0739	<b>MDL</b> 0.0167 0.00865 0.0114 0.0126	9 E Units mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: Wer Analysis Date 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U	2 2 2 2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene m.p-Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result <0.0167 0.0222 0.251 <0.0126 <0.0126	<b>RL</b> 0.0370 0.0370 0.0370 0.0739 0.0370	MDL 0.0167 0.00865 0.0114 0.0126 0.0126	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: West 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U U	2 2 2 2 2 2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene m,p-Xylenes b-Xylene Xylenes, Total	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Result           <0.0167	<b>RL</b> 0.0370 0.0370 0.0370 0.0739 0.0370 0.0370	MDL 0.0167 0.00865 0.0114 0.0126 0.0126 0.0126	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: West 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U	2 2 2 2 2 2 2 2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene m,p-Xylenes b-Xylene Xylenes, Total	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result <0.0167 0.0222 0.251 <0.0126 <0.0126	<b>RL</b> 0.0370 0.0370 0.0370 0.0739 0.0370 0.0370 0.0370	MDL 0.0167 0.00865 0.0114 0.0126 0.0126	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: West 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U U	2 2 2 2 2 2	
Tech: MIT Analyst: MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0167	<b>RL</b> 0.0370 0.0370 0.0370 0.0739 0.0370 0.0370	MDL 0.0167 0.00865 0.0114 0.0126 0.0126 0.0126	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: West 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U U	2 2 2 2 2 2 2 2	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Xylenes, Total Total BTEX	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0167	RL 0.0370 0.0370 0.0370 0.0739 0.0370 0.0370 0.0370 0.0370 %	MDL 0.0167 0.00865 0.0114 0.0126 0.0126 0.0126 0.00865	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: West 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31 07.21.17 02.31	t Weight Flag U J U U U U	2 2 2 2 2 2 2 2	



## TRC Solutions, Inc, Midland, TX

Sample Id:West SidewallLab Sample Id:557911-005	Matrix:	Soil	Date Received:07.18.17 17.45					
	Date Collected:	07.17.17 12.20	Sample Depth: 2 ft					
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Method: % Moisture: Basis:	SW5030B Wet Weight				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	12.5	7.39		mg/kg	07.21.17 02.31		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	108	%	76-123	07.21.17 02.31		
a,a,a-Trifluorotoluene	9	98-08-8	97	%	69-120	07.21.17 02.31		



# **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 557911

# **TRC Solutions, Inc**

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E300	OP	
Seq Number:	3023006			Matrix:	Solid				Date Pre	ep: 07.2	1.17	
MB Sample Id:	728108-1-BLK		LCS Sar	nple Id:	728108-1-	BKS		LCSI	D Sample	Id: 728	108-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	249	100	258	103	90-110	4	20	mg/kg	07.24.17 08:57	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	od: E30	0P	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557905-001		MS Sar	nple Id:	557905-00	01 S		MS	D Sample	Id: 5579	905-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	273	109	267	107	80-120	2	20	mg/kg	07.24.17 09:34	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	od: E30	0P	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557913-005		MS Sar	nple Id:	557913-00	)5 S		MSI	O Sample	e Id: 5579	913-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	261	104	265	106	80-120	2	20	mg/kg	07.24.17 12:45	

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P												
Seq Number:	3023296			Matrix:	Solid			Date Prep: 07.26.17				
MB Sample Id:	728282-1-BLK		LCS Sample Id: 728282-1-BKS LCSD Sample Id: 728282-1-BSI						282-1-BSD			
Parameter	M Resu	. 1		LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO) <25	.0 100	103	103	88.6	89	63-139	15	20	mg/kg	07.26.17 21:11	
Surrogate	M %I			CS Rec	LCS Flag	LCSI %Ree			mits	Units	Analysis Date	
Tricosane	11	2		115		102		65	-144	%	07.26.17 21:11	
n-Triacontane	12	7		124		114		46	-152	%	07.26.17 21:11	



# QC Summary 557911

# **TRC Solutions, Inc**

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3022806 727950-1-BLK	Matrix: nple Id:						0.17				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00904	2.00	1.88	94	1.87	94	55-120	1	20	mg/kg	07.20.17 16:37	
Toluene	< 0.00468	2.00	1.91	96	1.88	94	77-120	2	20	mg/kg	07.20.17 16:37	
Ethylbenzene	< 0.00616	2.00	1.88	94	1.87	94	77-120	1	20	mg/kg	07.20.17 16:37	
m,p-Xylenes	< 0.00682	4.00	3.77	94	3.77	94	78-120	0	20	mg/kg	07.20.17 16:37	
o-Xylene	< 0.00682	2.00	1.87	94	1.85	93	78-120	1	20	mg/kg	07.20.17 16:37	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
4-Bromofluorobenzene	97		ç	96		96		68	3-120	%	07.20.17 16:37	
a,a,a-Trifluorotoluene	97		9	93		95		71	-121	%	07.20.17 16:37	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3022806 557913-005	1B		Matrix: Soil MS Sample Id: 557913-005 S					Prep Method:         SW5030B           Date Prep:         07.20.17           MSD Sample Id:         557913-005 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00876	1.94	1.50	77	1.44	76	54-120	4	25	mg/kg	07.20.17 20:16	
Toluene	0.00986	1.94	1.65	85	1.57	83	57-120	5	25	mg/kg	07.20.17 20:16	
Ethylbenzene	< 0.00597	1.94	1.72	89	1.64	87	58-131	5	25	mg/kg	07.20.17 20:16	
m,p-Xylenes	0.00789	3.88	3.45	89	3.29	87	62-124	5	25	mg/kg	07.20.17 20:16	
o-Xylene	< 0.00661	1.94	1.70	88	1.63	86	62-124	4	25	mg/kg	07.20.17 20:16	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene			1	00		102		68	8-120	%	07.20.17 20:16	
a,a,a-Trifluorotoluene			1	02		103		71	-121	%	07.20.17 20:16	

Analytical Method: Seq Number: MB Sample Id:	<b>TPH GRO</b> 3022814 727951-1-B	-	8015 Mod.		Matrix: nple Id:	Solid 727951-1	-BKS			ep Methe Date Pr D Sample	ep: 07.2	5030B 0.17 951-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<4.00	20.0	17.6	88	21.3	107	35-129	19	20	mg/kg	07.20.17 17:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene		88		9	93		103		76	-123	%	07.20.17 17:32	
a,a,a-Trifluorotoluene		105		1	02		112		69	-120	%	07.20.17 17:32	



# QC Summary 557911

## **TRC Solutions, Inc**

Analytical Method:	TPH GRO by	EPA 8	8015 Mod.						Pr	ep Meth	od: SW3	5030B	
Seq Number:	3022966				Matrix:	Solid				Date Pr	ep: 07.2	1.17	
MB Sample Id:	728047-1-BLK	[		LCS Sar	nple Id:	728047-1	-BKS		LCSI	D Sample	e Id: 7280	)47-1-BSD	
Parameter	R	MB esult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<	<4.00	20.0	17.8	89	19.0	95	35-129	7	20	mg/kg	07.22.17 00:24	
Surrogate	Q	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene		84		5	87		92		76	-123	%	07.22.17 00:24	
a,a,a-Trifluorotoluene		100		9	90		92		69	-120	%	07.22.17 00:24	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pr	ep Meth	od: SW3	5030B	
Seq Number:	3022814				Matrix:	Soil				Date Pr	ep: 07.2	0.17	
Parent Sample Id:	557913-002	2		MS Sar	nple Id:	557913-00	02 S		MSI	D Sample	e Id: 5579	913-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<3.76	18.8	19.0	101	18.5	97	35-129	3	20	mg/kg	07.20.17 22:03	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				9	<del>9</del> 9		106		76	-123	%	07.20.17 22:03	
a,a,a-Trifluorotoluene				9	<del>9</del> 9		103		69	-120	%	07.20.17 22:03	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pı	ep Meth	od: SW3	5030B	
Seq Number:	3022966				Matrix:	Soil				Date Pr	ep: 07.2	1.17	
Parent Sample Id:	557913-004	4		MS Sar	nple Id:	557913-00	04 S		MS	D Sample	e Id: 5579	913-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<6.99	35.0	16.4	47	14.0	40	35-129	16	20	mg/kg	07.22.17 04:52	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				5	39		89		76	-123	%	07.22.17 04:52	
a,a,a-Trifluorotoluene				5	34		86		69	-120	%	07.22.17 04:52	



# CHAIN OF CUSTODY

Service Center- Amarillo, TX (806)678-4514 Service Center- Hobbs, NM (575) 392-7550	557911		Matrix Codes	W = Water	S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water	P = Product SW = Surface Water	SL - Sludge OW = Ocean/Sea Water WI = Wipe	0 = 0il WW = Waste Water	A = AIF			Field Comments		200	Con	780	005												Relinquished by: Date Time: Received By: A Preserved where applicable On tee Cooler Temp. Thermo. Corr. Factor Justice Science And NIS/17 5:45 75
132) 712-8143	Xenco Job#		Tormation																	Notos:	ADIES.					reu-eX / UPS: Tracking #	Received By:	2 Received By:	able On Ice
Phoenix, AZ (480) 355-0900 Service Center - Baton Rouge, LA (832) 712-8143 [\creater	Xenco Quote #	Ameliation	Analytical Information		17		M		ଦଟ		1911 1911	)															Date Time:	Date Time:	Preserved where applicable
Phoenix, Az Service Cen	Xei						<b>8</b> 11	0.08			HOS HOS HOS HOS HOS	eN BM									Level IV (Full Data Pkg /raw data)	TRRP Level IV	UST / RG -411			INCLUDING COURIER D	Relinquished By:	Relinquished By:	7/18/17 5:45
san Antonio, TX (210) 509-3334	www.xenco.com		Project Information	nber:	#3 WASH EXI. R		C10 Rose Slady			Number of preserved bottles	5204 403 561916 90H/Zu CI CI	0H 2A 2A 1H	-				>			Data Deliverable Information		Level III Std QC+ Forms	Level 3 (CLP Forms) UST / I	Level II Report with TRRP checklist		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	3y: Relinqu		red By: 4 ( Naud 711
			P	Project Name/Number:	TVZ Project Location:		120 ETL	PO Number:		Collection	cto C	2		A LI LI	10110						Lev	Lev	Lev	Lev		OCUMENTED BELOW EX	Received By: 1		Received By:
Lubbock, TX (806) 794-1296				1.	more thu	Phone No:	il32-4/up				Sample		C	r r	10						5 Day TAT	7 Day TAT	U Contract TAT		/ed by 5:00 pm	LE CUSTODY MUST BE D	Date Time:	Date Time:	Date Time:
Dallas, TX (214) 902-0300 Lubbock, TX (806) 794-129			Client / Reporting Information	SULAO	Midless: 2067 COM	Lehnne, Com	and the marine in the	Samplers's Name:			NO. Field ID / Point of Collection	1 Flow 03'	2 North Sidewall	3 East sidewall	4 South Sidowall	5	Q		10	Turnaround Time ( Business days)	Same Day TAT	Next Day EMERGENCY	2 Day EMERGENCY	3 Day EMERGENCY	TAT Starts Day received by Lab, if received by 5:00 pm	SAMPI	reel four		Relinquíshed by:

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: 07/18/2017 05:45:00 PM Temperature Measuring device used : IR-3 Work Order #: 557911 Comments Sample Receipt Checklist 4.5 #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? Yes #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)? No #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: 07/19/2017

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Mms Moah Kelsey Brooks

Date: 07/19/2017



Project Id:Contact:Joel LowryProject Location:Jal #3 West Exc.

## Certificate of Analysis Summary 557905

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 West Exc.

Date Received in Lab:Tue Jul-18-17 05:45 pmReport Date:27-JUL-17Project Manager:Kelsey Brooks

		557005 /	201	557005 (	000	557005 (	02	557005 (	0.4	557005.0	0.5	
	Lab Id:	557905-0		557905-0		557905-0		557905-0		557905-0		
Analysis Requested	Field Id:	Floor @	4'	North Side	Wall	East Side	Wall	South Side	Wall	West Side	Wall	
Timulysis Requested	Depth:	4 ft		3 ft		3 ft		3 ft		3 ft		
	Matrix:	SOIL										
	Sampled:	Jul-18-17	13:10	Jul-18-17	3:15	Jul-18-17 1	3:20	Jul-18-17 1	3:25	Jul-18-17 1	3:30	
BTEX by EPA 8021B	Extracted:	Jul-20-17	12:30	Jul-20-17 1	2:30							
	Analyzed:	Jul-20-17	23:24	Jul-21-17 (	5:37	Jul-21-17 (	5:11	Jul-20-17 2	3:51	Jul-21-17 0	0:18	
	Units/RL:	mg/kg	RL									
Benzene		< 0.0195	0.0195	< 0.0196	0.0196	< 0.0195	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Toluene		0.0293	0.0195	0.0196	0.0196	0.0780	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Ethylbenzene		0.459	0.0195	0.106	0.0196	1.64	0.0195	0.0495	0.0183	0.0516	0.0198	
m,p-Xylenes		< 0.0391	0.0391	< 0.0393	0.0393	< 0.0390	0.0390	< 0.0367	0.0367	< 0.0397	0.0397	
o-Xylene		0.135	0.0195	< 0.0196	0.0196	< 0.0195	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Total Xylenes		0.135	0.0195	< 0.0196	0.0196	< 0.0195	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Total BTEX		0.623	0.0195	0.126	0.0196	1.72	0.0195	0.0495	0.0183	0.0516	0.0198	
Chloride by EPA 300	Extracted:	Jul-21-17	13:00	Jul-21-17 1	3:00							
	Analyzed:	Jul-24-17 (	09:22	Jul-24-17 (	9:59	Jul-24-17 1	0:12	Jul-24-17 1	0:24	Jul-24-17 1	0:36	
	Units/RL:	mg/kg	RL									
Chloride		<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17	16:15	Jul-26-17 1	6:15							
	Analyzed:	Jul-27-17 (	01:20	Jul-27-17 1	0:14	Jul-27-17 (	2:29	Jul-27-17 0	3:03	Jul-27-17 0	3:36	
	Units/RL:	mg/kg	RL									
Diesel Range Organics (DRO)	'	316	25.0	4390	250	284	25.0	49.2	25.0	966	25.0	
Oil Range Hydrocarbons (ORO)		49.2	25.0	399	250	48.7	25.0	25.3	25.0	236	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-20-17	12:30	Jul-20-17 1	2:30	Jul-21-17 1	4:00	Jul-20-17 1	2:30	Jul-20-17 1	2:30	
	Analyzed:	Jul-20-17	23:24	Jul-21-17 (	5:37	Jul-22-17 (	2:37	Jul-20-17 2	3:51	Jul-21-17 0	0:18	
	Units/RL:	mg/kg	RL									
TPH-GRO		30.3	3.91	7.06	3.93	181	19.4	<3.67	3.67	<3.97	3.97	

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

Page 1 of 21

# **Analytical Report 557905**

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Jal #3 West Exc.

## 27-JUL-17

Collected By: Client



#### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

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)



27-JUL-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **557905** Jal #3 West Exc. Project Address: Jal #3 West Exc.

#### Joel Lowry:

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) 557905. 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. 557905 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 Id

Floor @ 4'
North Side Wall
East Side Wall
South Side Wall
West Side Wall

# Sample Cross Reference 557905

## TRC Solutions, Inc, Midland, TX

Matri	x Date Collected	Sample Depth	Lab Sample Id
S	07-18-17 13:10	- 4 ft	557905-001
S	07-18-17 13:15	- 3 ft	557905-002
S	07-18-17 13:20	- 3 ft	557905-003
S	07-18-17 13:25	- 3 ft	557905-004
S	07-18-17 13:30	- 3 ft	557905-005



Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc.

Project ID: Work Order Number(s): 557905 
 Report Date:
 27-JUL-17

 Date Received:
 07/18/2017

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3022806 BTEX by EPA 8021B Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 557905-003. Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3023296 DRO-ORO By SW8015B Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 557905-002,557905-005. Matrix spikes were ran with batch but could not be reported due to different report method.



## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Floor</b> @ <b>4'</b> d: 557905-001		Matrix: Date Col	Soil lected: 07.18	.17 13.10		Date Received:07. Sample Depth:4 f		5
Analytical Me	ethod: Chloride by EP.	A 300				P	Prep Method: E30	00P	
Tech:	RNL						6 Moisture:		
Analyst:	RNL		Date Pre	n: 07.21	.17 13.00	E	Basis: We	t Weight	
Seq Number:			Date The	p. 07.21	.17 15.00	-		e i eight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<25.0	25.0		mg/kg	07.24.17 09.22	U	1
emonde		10007 00 0	<23.0	23.0		ing/kg	07.24.17 09.22	0	1
Analytical Me	ethod: DRO-ORO By	SW8015B					Prep Method: SW	/8015P	
Tech:	PGM					9	6 Moisture:		
Analyst:	PGM		Date Pre	p: 07.26	.17 16.15	E	Basis: We	t Weight	
Seq Number:	3023296								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range O	rganics (DRO)	C10C28DRO	316	25.0		mg/kg	07.27.17 01.20		1
Oil Range Hydr	rocarbons (ORO)	PHCG2835	49.2	25.0		mg/kg	07.27.17 01.20		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
0									
Tricosane			638-67-5	123	%	65-144	07.27.17 01.20		
Tricosane n-Triaconta	ane		638-67-5 638-68-6	-	% %	65-144 46-152	07.27.17 01.20 07.27.17 01.20		
n-Triaconta	ane ethod: BTEX by EPA	8021B		123		46-152		75030B	
n-Triaconta		8021B		123		46-152 F	07.27.17 01.20	75030B	
n-Triacont Analytical Me	ethod: BTEX by EPA	8021B	638-68-6	123 140		46-152 F 9	07.27.17 01.20 Prep Method: SW 6 Moisture:	75030B et Weight	
n-Triaconta Analytical Me Tech:	ethod: BTEX by EPA MIT MIT	8021B		123 140	%	46-152 F 9	07.27.17 01.20 Prep Method: SW 6 Moisture:		
n-Triaconts Analytical Me Tech: Analyst:	ethod: BTEX by EPA MIT MIT	8021B Cas Number	638-68-6	123 140	%	46-152 F 9	07.27.17 01.20 Prep Method: SW 6 Moisture:		Dil
n-Triacont Analytical Me Tech: Analyst: Seq Number:	ethod: BTEX by EPA MIT MIT		638-68-6 Date Pre	123 140 p: 07.20	%	46-152 F % E	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We	t Weight	<b>Dil</b>
n-Triacont Analytical Me Tech: Analyst: Seq Number: <b>Parameter</b>	ethod: BTEX by EPA MIT MIT	Cas Number	638-68-6 Date Pre <b>Result</b>	123 140 p: 07.20 <b>RL</b>	%	46-152 P % E Units	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We Analysis Date	et Weight Flag	
n-Triacont Analytical Me Tech: Analyst: Seq Number: Parameter Benzene	ethod: BTEX by EPA MIT MIT	<b>Cas Number</b> 71-43-2	638-68-6 Date Pre <b>Result</b> <0.0195	123 140 p: 07.20 <b>RL</b> 0.0195	%	46-152 P % E Units mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We <u>Analysis Date</u> 07.20.17 23.24	et Weight Flag	1
n-Triacont Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene	ethod: BTEX by EPA MIT MIT	Cas Number 71-43-2 108-88-3	638-68-6 Date Pre Result <0.0195 0.0293	123 140 p: 07.20 <b>RL</b> 0.0195 0.0195	%	46-152 F % E Units mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We <u>Analysis Date</u> 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag	1
n-Triacont Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene	ethod: BTEX by EPA MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4	638-68-6 Date Pre Result <0.0195 0.0293 0.459	p: 07.20 <b>RL</b> 0.0195 0.0195 0.0195 0.0391 0.0195	%	46-152 P 9 E Units mg/kg mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We Analysis Date 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag U	1 1 1
n-Triaconts Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	ethod: BTEX by EPA MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	638-68-6 Date Pre Result <0.0195 0.0293 0.459 <0.0391 0.135 0.135	p: 07.20 <b>RL</b> 0.0195 0.0195 0.0195 0.0391 0.0195 0.0195 0.0195	%	46-152 F 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag U	1 1 1 1 1
n-Triacont Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	ethod: BTEX by EPA MIT MIT	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-68-6 Date Pre Result <0.0195 0.0293 0.459 <0.0391 0.135	123 140 p: 07.20 <b>RL</b> 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195	%	46-152 P % Units Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag U	1 1 1 1
n-Triaconts Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	ethod: BTEX by EPA a MIT MIT 3022806	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-68-6 Date Pre Result <0.0195 0.0293 0.459 <0.0391 0.135 0.135	p: 07.20 <b>RL</b> 0.0195 0.0195 0.0195 0.0391 0.0195 0.0195 0.0195	%	46-152 F 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag U	1 1 1 1 1
n-Triaconta Analytical Me Tech: Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylenes Total Xylenes Total BTEX Surrogate 4-Bromofil	ethod: BTEX by EPA a MIT MIT 3022806	<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	638-68-6 Date Pre Result <0.0195 0.0293 0.459 <0.0391 0.135 0.135 0.623	123 140 p: 07.20 <b>RL</b> 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 9%	%	46-152 F 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	07.27.17 01.20 Prep Method: SW 6 Moisture: Basis: We 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24 07.20.17 23.24	et Weight Flag U U	1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:         Floor @ 4'           Lab Sample Id:         557905-001	Matrix:	Soil	Date Receive	ed:07.18.17 17.45
	Date Collected	d: 07.18.17 13.10	Sample Dept	h:4 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Method % Moisture: Basis:	: SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	30.3	3.91		mg/kg	07.20.17 23.24		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	4	60-00-4	101	%	76-123	07.20.17 23.24			
a,a,a-Trifluorotoluene	9	8-08-8	102	%	69-120	07.20.17 23.24			



## TRC Solutions, Inc, Midland, TX

Sample Id:North Side WallLab Sample Id:557905-002		Matrix: Date Col	Soil lected: 07.18	.17 13.15	S	Date Received:07. Sample Depth: 3 f	ť	5
Analytical Method: Chloride by E	PA 300					Prep Method: E30	00P	
Tech: RNL					%	6 Moisture:		
Analyst: RNL		Date Prej	p: 07.21	.17 13.00	E	Basis: We	t Weight	
Seq Number: 3023006								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0		mg/kg	07.24.17 09.59	U	1
Analytical Method: DRO-ORO B	y SW8015B					Prep Method: SW	/8015P	
Tech: PGM						6 Moisture:		
Analyst: PGM		Date Prej	p: 07.26	.17 16.15	E	Basis: We	t Weight	
Seq Number: 3023296								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4390	250		mg/kg	07.27.17 10.14		10
Oil Range Hydrocarbons (ORO)	PHCG2835	399	250		mg/kg	07.27.17 10.14		10
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	Recovery 887	%	65-144	07.27.17 10.14	Flag **	
n-Triacontane		638-68-6	665	%	46-152	07.27.17 10.14	**	
Analytical Method: BTEX by EPA	8021B							
	1 0021D					Prep Method: SW	5030B	
Tech: MIT	1 0021D				%	6 Moisture:		
Analyst: MIT	<b>X</b> 0021 <b>D</b>	Date Prep	p: 07.20	.17 12.30	%	6 Moisture:	75030B t Weight	
	<b>X 0021D</b>	Date Prej	p: 07.20	.17 12.30	%	6 Moisture:		
Analyst: MIT	Cas Number		p: 07.20 <b>RL</b>	.17 12.30	%	6 Moisture:		Dil
Analyst: MIT Seq Number: 3022806				.17 12.30	9 E	6 Moisture: Basis: We	t Weight	<b>Dil</b>
Analyst: MIT Seq Number: 3022806 Parameter	Cas Number	Result	RL	.17 12.30	9 E Units	6 Moisture: Basis: We Analysis Date	t Weight Flag	
Analyst: MIT Seq Number: 3022806 Parameter Benzene	Cas Number 71-43-2 108-88-3 100-41-4	<b>Result</b> <0.0196	<b>RL</b> 0.0196	.17 12.30	% E Units mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag	1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	<b>Result</b> <0.0196 <b>0.0196</b> <b>0.106</b> <0.0393	<b>RL</b> 0.0196 0.0196 0.0196 0.0393	.17 12.30	9 E Units mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U	1 1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<b>Result</b> <0.0196 <b>0.0196</b> <b>0.106</b> <0.0393 <0.0196	<b>RL</b> 0.0196 0.0196 0.0393 0.0196	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U U	1 1 1 1 1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	<b>Result</b> <0.0196 <b>0.0196</b> <b>0.106</b> <0.0393 <0.0196 <0.0196	<b>RL</b> 0.0196 0.0196 0.0393 0.0196 0.0196	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U	1 1 1 1 1 1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m.p-Xylenes o-Xylene	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<b>Result</b> <0.0196 <b>0.0196</b> <b>0.106</b> <0.0393 <0.0196	<b>RL</b> 0.0196 0.0196 0.0393 0.0196 0.0196 0.0196	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U U	1 1 1 1 1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<b>Result</b> <0.0196 <b>0.0196</b> <b>0.106</b> <0.0393 <0.0196 <0.0196	<b>RL</b> 0.0196 0.0196 0.0393 0.0196 0.0196 0.0196 <b>%</b>	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U U	1 1 1 1 1 1
Analyst: MIT Seq Number: 3022806 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0196	<b>RL</b> 0.0196 0.0196 0.0393 0.0196 0.0196 0.0196		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37 07.21.17 05.37	t Weight Flag U U U U U	1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:North Side WallLab Sample Id:557905-002	Matrix: Soil Date Collected: 07.18.	17 13.15	Date Received Sample Depth	:07.18.17 17.45 :3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep: 07.20.	17 12.30	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	7.06	3.93		mg/kg	07.21.17 05.37		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	4	460-00-4	86	%	76-123	07.21.17 05.37			
a,a,a-Trifluorotoluene	9	98-08-8	98	%	69-120	07.21.17 05.37			



## TRC Solutions, Inc, Midland, TX

Sample Id:East Side WallLab Sample Id:557905-003		Matrix: Date Col	Soil lected: 07.18	.17 13.20		Date Received:07.		5
Analytical Method: Chloride by El	PA 300				P	Prep Method: E30	00P	
Tech: RNL					9	6 Moisture:		
Analyst: RNL		Date Pre	p: 07.21	.17 13.00	E	Basis: We	t Weight	
Seq Number: 3023006								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0		mg/kg	07.24.17 10.12	U	1
Analytical Method: DRO-ORO By	v SW8015B					rep Method: SW	8015P	
Tech: PGM						6 Moisture:		
Analyst: PGM		Date Pre	p: 07.26	.17 16.15	E	Basis: We	t Weight	
Seq Number: 3023296								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	284	25.0		mg/kg	07.27.17 02.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	48.7	25.0		mg/kg	07.27.17 02.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	144	%	65-144	07.27.17 02.29		
n-Triacontane		638-68-6	151	%	46-152	07.27.17 02.29		
Analytical Method: BTEX by EPA	8021B					Prep Method: SW	75030B	
Tech: MIT						6 Moisture:		
Analyst: MIT		Date Pre	p: 07.20	.17 12.30	E	Basis: We	t Weight	
Seq Number: 3022806								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Toluene	108-88-3	0.0780	0.0195		mg/kg	07.21.17 05.11		1
Ethylbenzene	100-41-4	1.64	0.0195		mg/kg	07.21.17 05.11		1
m,p-Xylenes	179601-23-1	< 0.0390	0.0390		mg/kg	07.21.17 05.11	U	1
o-Xylene	95-47-6	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Total Xylenes	1330-20-7	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Total BTEX		1.72	0.0195		mg/kg	07.21.17 05.11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	189	%	68-120	07.21.17 05.11	**	
a,a,a-Trifluorotoluene		98-08-8	110	%	71-121	07.21.17 05.11		



## TRC Solutions, Inc, Midland, TX

Sample Id:East Side WallLab Sample Id:557905-003	Matrix: Soil Date Collected: 07.18.17 13.20	Date Received:07.18.17 17.45 Sample Depth: 3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022966	Date Prep: 07.21.17 14.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	181	19.4		mg/kg	07.22.17 02.37		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	118	%	76-123	07.22.17 02.37		
a,a,a-Trifluorotoluene	(	98-08-8	97	%	69-120	07.22.17 02.37		



## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id:	<b>South Side Wall</b> 557905-004		Matrix: Date Col	Soil lected: 07.18	.17 13.25		Date Received:07 Sample Depth: 3		5
Analytical Met	hod: Chloride by EPA	A 300				F	Prep Method: E3	300P	
-	RNL						6 Moisture:		
	RNL		Date Pre	n: 07.21	.17 13.00			et Weight	
Seq Number:			Date The	p. 07.21	.17 15.00	-		et weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<25.0	25.0		mg/kg	07.24.17 10.24	U	1
Applytical Mat		SW2015D				г	Mathada S	V2015D	
-	hod: DRO-ORO By S	SW8015B					Prep Method: SV	w8015P	
	PGM		_	07.0	17 1 4 4 5		6 Moisture:		
5	PGM 3023296		Date Pre	p: 07.26	.17 16.15	E	Basis: W	et Weight	
Seq Number:	3023290								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
iesel Range Org	ganics (DRO)	C10C28DRO	49.2	25.0		mg/kg	07.27.17 03.03		1
)il Range Hydro	ocarbons (ORO)	PHCG2835	25.3	25.0		mg/kg	07.27.17 03.03		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane			638-67-5	113	%	65-144	07.27.17 03.03		
n-Triacontar	ne		638-68-6	137	%	46-152	07.27.17 03.03		
Analytical Met	hod: BTEX by EPA	3021B				F	Prep Method: SV	W5030B	
	hod: BTEX by EPA 3	8021B					Prep Method: SV 6 Moisture:	W5030B	
Tech:	MIT	8021B	Date Pre	n: 07.20.	.17 12.30	9	6 Moisture:		
Tech: Analyst:	MIT MIT	8021B	Date Pre	p: 07.20.	.17 12.30	9	6 Moisture:	W5030B fet Weight	
Tech: Analyst: Seq Number:	MIT MIT	8021B Cas Number		p: 07.20. <b>RL</b>	.17 12.30	9	6 Moisture:		Dil
Tech: Analyst: Seq Number: <b>'arameter</b>	MIT MIT			RL 0.0183	.17 12.30	9 E	6 Moisture: Basis: W Analysis Date 07.20.17 23.51	et Weight	<b>Dil</b>
Tech: Analyst: Seq Number: <b>Parameter</b> Senzene Yoluene	MIT MIT	Cas Number 71-43-2 108-88-3	<b>Result</b> <0.0183 <0.0183	RL 0.0183 0.0183	.17 12.30	9 E Units	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51	et Weight Flag	
Tech: Analyst: Seq Number: <b>arameter</b> enzene oluene <b>chylbenzene</b>	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4	<b>Result</b> <0.0183 <0.0183 <b>0.0495</b>	RL 0.0183 0.0183 0.0183	.17 12.30	9 E Units mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	fet Weight Flag U U	1
Tech: Analyst: Seq Number: Parameter Carameter Coluene Cithylbenzene n,p-Xylenes	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	<b>Result</b> <0.0183 <0.0183 <b>0.0495</b> <0.0367	RL 0.0183 0.0183 0.0183 0.0367	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	fet Weight Flag U U U	1 1 1
Tech: Analyst: Seq Number: Parameter Benzene Coluene Cthylbenzene n,p-Xylenes -Xylene	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0183	RL 0.0183 0.0183 0.0183 0.0367 0.0183	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	Tet Weight Flag U U U U U	1 1 1 1 1
Tech: Analyst: Seq Number: Parameter Benzene Toluene Cthylbenzene n,p-Xylenes D-Xylene Total Xylenes	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Result         <0.0183	RL 0.0183 0.0183 0.0183 0.0367 0.0183 0.0183	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	fet Weight Flag U U U	1 1 1 1 1 1
Tech: Analyst: Seq Number: Parameter Benzene Toluene Cthylbenzene n,p-Xylenes -Xylene Total Xylenes	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0183	RL 0.0183 0.0183 0.0183 0.0367 0.0183 0.0183 0.0183	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	Tet Weight Flag U U U U U	1 1 1 1 1
Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene n,p-Xylenes D-Xylene Fotal Xylenes	MIT MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0183	RL 0.0183 0.0183 0.0183 0.0367 0.0183 0.0183 0.0183 %	.17 12.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	Tet Weight Flag U U U U U U U	1 1 1 1 1 1 1
Tech: Analyst: Seq Number: Parameter Benzene Foluene Ethylbenzene n,p-Xylenes D-Xylene Fotal Xylenes Fotal BTEX	MIT MIT 3022806	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0183	RL 0.0183 0.0183 0.0183 0.0367 0.0183 0.0183 0.0183		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: W Analysis Date 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51 07.20.17 23.51	Tet Weight Flag U U U U U U U	1 1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:South Side WallLab Sample Id:557905-004	Matrix:	Soil	Date Receiv	red:07.18.17 17.45
	Date Collecte	ed: 07.18.17 13.25	Sample Dep	oth:3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep:	07.20.17 12.30	Prep Metho % Moisture Basis:	d: SW5030B : Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.67	3.67		mg/kg	07.20.17 23.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	76-123	07.20.17 23.51		
a,a,a-Trifluorotoluene		98-08-8	98	%	69-120	07.20.17 23.51		



## TRC Solutions, Inc, Midland, TX

Sample Id:West Side WallLab Sample Id:557905-005		Matrix: Date Col	Soil llected: 07.18	.17 13.30		Date Received:07. Sample Depth: 3 f		5
Analytical Method: Chloride by E	EPA 300				P	Prep Method: E30	00P	
Tech: RNL						6 Moisture:		
Analyst: RNL		Date Pre	p: 07.21	.17 13.00	E	Basis: We	et Weight	
Seq Number: 3023006			E.				U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0		mg/kg	07.24.17 10.36	U	1
Analytical Method: DRO-ORO B Tech: PGM	y SW8015B					Prep Method: SW 6 Moisture:	78015P	
Analyst: PGM		Date Pre	n: 07.26	.17 16.15			et Weight	
Seq Number: 3023296		Date Fiej	p. 07.20.	.17 10.15	L		a weight	
seq Number. 3023290								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	966	25.0		mg/kg	07.27.17 03.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	236	25.0		mg/kg	07.27.17 03.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	305	%	65-144	07.27.17 03.36	**	
n-Triacontane		638-68-6	357	%	46-152	07.27.17 03.36	**	
Analytical Method: BTEX by EPA	A 8021B				P	Prep Method: SW	/5030B	
Analytical Method: BTEX by EPA Tech: MIT	A 8021B					Prep Method: SW 6 Moisture:	/5030B	
	A 8021B	Date Pre	p: 07.20	.17 12.30	%	6 Moisture:	75030B et Weight	
Tech: MIT	A 8021B	Date Prep	p: 07.20	.17 12.30	%	6 Moisture:		
Tech: MIT Analyst: MIT Seq Number: 3022806	A 8021B Cas Number		p: 07.20. <b>RL</b>	.17 12.30	%	6 Moisture:		Dil
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter			L	.17 12.30	9 E	6 Moisture: Basis: We	et Weight	<b>Dil</b>
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene	Cas Number	Result	RL	.17 12.30	% E Units	6 Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene	Cas Number 71-43-2	<b>Result</b>	RL 0.0198	.17 12.30	% E Units mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U	1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene	<b>Cas Number</b> 71-43-2 108-88-3	<b>Result</b> <0.0198 <0.0198	RL 0.0198 0.0198	.17 12.30	9 E Units mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.18 07.21.17 00.18	et Weight Flag U	1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene n,p-Xylenes	Cas Number 71-43-2 108-88-3 100-41-4	<b>Result</b> <0.0198 <0.0198 0.0516	RL 0.0198 0.0198 0.0198	.17 12.30	9 E Units mg/kg mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U U	1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene n,p-Xylenes D-Xylene Fotal Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Result           <0.0198	RL 0.0198 0.0198 0.0198 0.0397 0.0198 0.0198	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U U U	1 1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene n,p-Xylenes D-Xylene Fotal Xylenes	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0198	RL 0.0198 0.0198 0.0198 0.0397 0.0198 0.0198 0.0198	.17 12.30	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U U U U	1 1 1 1
Tech: MIT Analyst: MIT	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result           <0.0198	RL 0.0198 0.0198 0.0198 0.0397 0.0198 0.0198 0.0198 %	.17 12.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U U U U	1 1 1 1 1 1 1
Tech: MIT Analyst: MIT Seq Number: 3022806 Parameter Benzene Foluene Ethylbenzene n,p-Xylenes o-Xylene Fotal Xylenes Fotal BTEX	Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Result         <0.0198	RL 0.0198 0.0198 0.0198 0.0397 0.0198 0.0198 0.0198		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18 07.21.17 00.18	et Weight Flag U U U U U U U	1 1 1 1 1 1



## TRC Solutions, Inc, Midland, TX

Sample Id:West Side WallLab Sample Id:557905-005	Matrix: Soil Date Collected: 07.18.17 13.3	Date Received:07.18.17 17.45 Sample Depth: 3 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3022814	Date Prep: 07.20.17 12.3	Prep Method: SW5030B % Moisture: 0 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.97	3.97		mg/kg	07.21.17 00.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	76-123	07.21.17 00.18		
a,a,a-Trifluorotoluene		98-08-8	105	%	69-120	07.21.17 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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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 557905

## **TRC Solutions, Inc**

Jal #3 West Exc.

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3023006			Matrix:	Solid				Date Pre	ep: 07.2	1.17	
MB Sample Id:	728108-1-BLK		LCS Sar	nple Id:	728108-1-	BKS		LCSI	D Sample	Id: 728	108-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	249	100	258	103	90-110	4	20	mg/kg	07.24.17 08:57	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	d: E30	0P	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557905-001		MS Sar	nple Id:	557905-00	01 S		MSI	D Sample	Id: 5579	905-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	273	109	267	107	80-120	2	20	mg/kg	07.24.17 09:34	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	od: E300	OP 90	
Seq Number:	3023006			Matrix:	Soil				Date Pre	ep: 07.2	1.17	
Parent Sample Id:	557913-005		MS Sar	nple Id:	557913-00	)5 S		MSI	O Sample	Id: 5579	913-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	261	104	265	106	80-120	2	20	mg/kg	07.24.17 12:45	

Analytical Method:	DRO-ORO By S	W8015B						Pı	ep Meth	od: SW8	8015P	
Seq Number:	3023296			Matrix:	Solid				Date Pr	ep: 07.2	6.17	
MB Sample Id:	728282-1-BLK		LCS Sa	mple Id:	728282-1	-BKS		LCS	D Sample	e Id: 7282	282-1-BSD	
Parameter	M Resu	. 1		LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO) <25	.0 100	103	103	88.6	89	63-139	15	20	mg/kg	07.26.17 21:11	
Surrogate	M %I			CS Rec	LCS Flag	LCSI %Ree			mits	Units	Analysis Date	
Tricosane	11	2		115		102		65	-144	%	07.26.17 21:11	
n-Triacontane	12	7		124		114		46	-152	%	07.26.17 21:11	



# QC Summary 557905

### **TRC Solutions, Inc**

Jal #3 West Exc.

Analytical Method: Seq Number:	BTEX by EPA 802 3022806	1B	1	Matrix:	Solid			Pı	ep Meth Date Pr		5030B	
MB Sample Id:	727950-1-BLK				727950-1-	BKS		LCS		1	950-1-BSD	
MB Sample Id:				1					•			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0200	2.00	1.88	94	1.87	94	55-120	1	20	mg/kg	07.20.17 16:37	
Toluene	< 0.0200	2.00	1.91	96	1.88	94	77-120	2	20	mg/kg	07.20.17 16:37	
Ethylbenzene	< 0.0200	2.00	1.88	94	1.87	94	77-120	1	20	mg/kg	07.20.17 16:37	
m,p-Xylenes	< 0.0400	4.00	3.77	94	3.77	94	78-120	0	20	mg/kg	07.20.17 16:37	
o-Xylene	< 0.0200	2.00	1.87	94	1.85	93	78-120	1	20	mg/kg	07.20.17 16:37	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene	97		9	96		96		68	3-120	%	07.20.17 16:37	
a,a,a-Trifluorotoluene	97		9	93		95		71	-121	%	07.20.17 16:37	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3022806 557913-005	1B		Matrix: nple Id:	Soil 557913-00	)5 S			ep Meth Date Pr D Sample	ep: 07.2	5030B 0.17 913-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0194	1.94	1.50	77	1.44	76	54-120	4	25	mg/kg	07.20.17 20:16	
Toluene	< 0.0194	1.94	1.65	85	1.57	83	57-120	5	25	mg/kg	07.20.17 20:16	
Ethylbenzene	< 0.0194	1.94	1.72	89	1.64	87	58-131	5	25	mg/kg	07.20.17 20:16	
m,p-Xylenes	< 0.0388	3.88	3.45	89	3.29	87	62-124	5	25	mg/kg	07.20.17 20:16	
o-Xylene	< 0.0194	1.94	1.70	88	1.63	86	62-124	4	25	mg/kg	07.20.17 20:16	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene			1	00		102		68	3-120	%	07.20.17 20:16	
a,a,a-Trifluorotoluene			1	02		103		71	-121	%	07.20.17 20:16	

Analytical Method: Seq Number: MB Sample Id:	<b>TPH GRO</b> 3022814 727951-1-B	·	8015 Mod.		Matrix: nple Id:		-BKS			ep Methe Date Pr D Sample	ep: 07.2	5030B 0.17 951-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<4.00	20.0	17.6	88	21.3	107	35-129	19	20	mg/kg	07.20.17 17:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene		88		9	93		103		76	5-123	%	07.20.17 17:32	
a,a,a-Trifluorotoluene		105		1	02		112		69	-120	%	07.20.17 17:32	



Jal #3 West Exc.

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pr	ep Meth	od: SW5	5030B	
Seq Number:	3022966				Matrix:	Solid				Date Pr	ep: 07.2	1.17	
MB Sample Id:	728047-1-BI	LK		LCS Sar	nple Id:	728047-1	-BKS		LCSI	O Sample	e Id: 7280	)47-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<4.00	20.0	17.8	89	19.0	95	35-129	7	20	mg/kg	07.22.17 00:24	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene		84		8	37		92		76	-123	%	07.22.17 00:24	
a,a,a-Trifluorotoluene		100		ģ	90		92		69	-120	%	07.22.17 00:24	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pr	ep Meth	od: SW3	5030B	
Seq Number:	3022814				Matrix:	Soil				Date Pr	ep: 07.2	0.17	
Parent Sample Id:	557913-002	2		MS Sar	nple Id:	557913-0	02 S		MS	D Sample	e Id: 5579	913-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<3.76	18.8	19.0	101	18.5	97	35-129	3	20	mg/kg	07.20.17 22:03	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				9	<del>)</del> 9		106		76	-123	%	07.20.17 22:03	
a,a,a-Trifluorotoluene				9	99		103		69	-120	%	07.20.17 22:03	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Pı	ep Meth	od: SW3	5030B	
Seq Number:	3022966				Matrix:	Soil				Date Pr	ep: 07.2	1.17	
Parent Sample Id:	557913-004	4		MS Sar	nple Id:	557913-00	04 S		MS	D Sample	e Id: 5579	913-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<6.99	35.0	16.4	47	14.0	40	35-129	16	20	mg/kg	07.22.17 04:52	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				8	39		89		76	-123	%	07.22.17 04:52	
a,a,a-Trifluorotoluene				5	34		86		69	-120	%	07.22.17 04:52	



# CHAIN OF CUSTODY

ution Chicks 57 LOMARCE						
gintormation Children Connece C		www.xenco.com		Xenco Quote #	Xenco Job #	557905
g Information				Analytical	Anshitical Information	_
as unner t		Project Information				Matrix Codes
057 LOMARIE D	Project Na	Project Name/Number:				W = Water
	AUC Project Location	tion:				S = Soil/Sed/Solid
Imidlary IX Chos	Jal	#3 West Exc. (		47		GW = Ground Water DW = Drinking Water
100:00	Invoice To:					SW = Surface Water
14-267	delites E	ETL (10 Rose slade	Slack	m 111		SL - Sludge OW = Ocean/Sea Water
Martine Local	PO Mimba					0 = 01
Samplers's Name:				108		WW = Waste Water A = Air
	Collection	Nimbe	Number of presented hotton			
No. Field ID / Point of Collection						
	Sample Denth Date	H H S HOF S S S S S S S S S S S S S S S S S S S	901E 2011 11204 1011 1015 103 103	_1, H01 719		
1 Floor Q 41	n half	Matrix pottles <u><u>T</u> Z</u>	en an an an an an an an an an an an an an	-		Field Comments
V	/ Viant					
NUC .	-	13:15				
3 tast sideway	3 13	13:20				
4 South Sideward	2	13:20				
5 West Sidewall	>	13:30 V V				
0						
7						
8						
0						
10						
Turnaround Time (Business days)		Data Deliverable Information				
Same Day TAT		Level II Std DC	1 -		Notes:	
Next Day EMERGENCY			Level IV (Full Data Pkg /raw data)	aw data)		
		Level III Sta UC+ Forms	TRRP Level IV			
Lay EMERGENCY		Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		Level II Report with TRRP checklist	list			
TAT Starts Day received by Lab, if received by 5:00 pm	0 pm					
Relinquished by Sampler:	MUST BE DOCUMENTED BE	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	SSESSION, INCLUDING COURIE		FED-EX / UPS: Tracking #	
Juel Juner	Uate lime: Rec	Received By: 1	Relinquished By:	Date Time:	Received By:	
0	Date Time: Rec	Received By: 3	Relinquished By:	Date Time;	2 Received By:	
Relinquished by:	Date Time: Receiv	stived By:	4 Custody Soal #	Preserved where applicable	able Qn Ice	Gooler Tamp Thomas C
Votice: Signature of this document and relinquishment of samples constitutes a valid numbers or a valid number of numbers or a valid numbers or a	valid hurchase order from clipation	Vrendar Ward	7/18/17 S	5:45 ++		4.1.1.4.5 7.8.2 -0.1

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: 07/18/2017 05:45:00 PM Temperature Measuring device used : IR-3 Work Order #: 557905 Comments Sample Receipt Checklist 4.5 #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)? No #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: 07/19/2017

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Mms Moah Kelsey Brooks

Date: 07/19/2017



Joel Lowry

Lea County NM

**Contact:** 

**Project Location:** 

Certificate of Analysis Summary 561286

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 Field Scrubbers (Open Excavations)



Date Received in Lab:Fri Aug-25-17 02:00 pmReport Date:31-AUG-17Project Manager:Kelsey Brooks

	Lab Id:	561286-	001	561286-0	002	561286-0	003	561286-	004		
A surface Descendent	Field Id:	Exc. A T	Г@9	Exc. B TT	@8	Exc. B SS	WB	Exc. C TI	. @9		
Analysis Requested	Depth:	9-0 f	t l	8-0 ft		7-5 ft		9-0 ft			
	Matrix:	SOIL	_	SOIL		SOIL		SOIL	,		
	Sampled:	Aug-23-17	10:10	Aug-23-17	10:30	Aug-23-17	10:35	Aug-23-17	10:52		
BTEX by EPA 8021B	Extracted:	Aug-28-17	16:00	Aug-29-17	09:00	Aug-30-17	08:00	Aug-28-17	16:00		
	Analyzed:	Aug-28-17	23:54	Aug-29-17	19:27	Aug-30-17	13:56	Aug-29-17	00:13		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		0.00216	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Toluene		< 0.00202	0.00202	< 0.00952	0.00952	0.00848	0.00201	< 0.00202	0.00202		
Ethylbenzene		0.00210	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
m,p-Xylenes		0.00747	0.00404	< 0.0190	0.0190	< 0.00402	0.00402	< 0.00404	0.00404		
o-Xylene		0.00585	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Total Xylenes		0.01332	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Total BTEX		0.01758	0.00202	< 0.00952	0.00952	0.00848	0.00201	< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	Aug-29-17	16:15	Aug-29-17	16:15	Aug-29-17	16:15	Aug-29-17	16:15		
	Analyzed:	Aug-30-17	01:09	Aug-30-17	01:20	Aug-30-17	00:28	Aug-30-17	00:38		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		140	4.99	207	4.90	58.7	5.00	33.1	4.97		
TPH by SW8015 Mod	Extracted:	Aug-25-17	17:00	Aug-25-17	17:00	Aug-25-17	17:00	Aug-25-17	17:00		
	Analyzed:	Aug-26-17	15:18	Aug-26-17	00:25	Aug-26-17	15:38	Aug-26-17	01:06		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		40.3	15.0	<15.0	15.0	36.4	14.9	<15.0	15.0		
Diesel Range Organics (DRO)		779	15.0	<15.0	15.0	9230	14.9	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		161	15.0	<15.0	15.0	2920	14.9	<15.0	15.0		
Total TPH		980.3	15	<15	15	12186.4	14.9	<15	15		

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

Page 1 of 20

# Analytical Report 561286

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Jal #3 Field Scrubbers (Open Excavations)

### 31-AUG-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)



31-AUG-17



Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

### Reference: XENCO Report No(s): **561286** Jal #3 Field Scrubbers (Open Excavations) Project Address: Lea County NM

### Joel Lowry:

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) 561286. 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. 561286 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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



### Sample Id

Exc. A TT @9
Exc. B TT @8
Exc. B SSWB
Exc. C TT @9

# Sample Cross Reference 561286



## TRC Solutions, Inc, Midland, TX

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-23-17 10:10	9 - 0 ft	561286-001
S	08-23-17 10:30	8 - 0 ft	561286-002
S	08-23-17 10:35	7 - 5 ft	561286-003
S	08-23-17 10:52	9 - 0 ft	561286-004
S	08-23-17 10:35	7 - 5 ft	561286-003



# CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Scrubbers (Open Excavations)

Project ID: Work Order Number(s): 561286 Report Date:31-AUG-17Date Received:08/25/2017

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3026156 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3026246 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3026250 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 561286-003.

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





### TRC Solutions, Inc, Midland, TX

Sample Id:Exc. ALab Sample Id:561286		Matrix: Date Collec	Soil cted: 08.23.17 10.10	Date Received:08.25.17 14.00 Sample Depth:9 - 0 ft			
Analytical Method: Ch Tech: MNV Analyst: MNV Seq Number: 3026248		Date Prep:	08.29.17 16.15		Prep Method: E3 % Moisture: Basis: Wo	00P et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	140	4.99	mg/kg	08.30.17 01.09		1
Chloride	16887-00-6	140	4.99	mg/kg	08.30.17 01.09		
Analytical Method: TP	H by SW8015 Mod				Prep Method: TX	(1005P	

Gasoline Range Hydrocarbons (GRO)         PHC610         40.3         15.0         mg/kg         08.26.17         15.18           Diesel Range Organics (DRO)         C10C28DRO         779         15.0         mg/kg         08.26.17         15.18           Oil Range Hydrocarbons (ORO)         PHCG2835         161         15.0         mg/kg         08.26.17         15.18	Analytical Method: IPH by Sw801:	5 Mod					rep Method: 12	C1005P	
Parameter         Cas Number         Result         RL         Units         Analysis Date         Flag         D           Gasoline Range Hydrocarbons (GRO)         PHC610         40.3         15.0         mg/kg         08.26.17         15.18           Diesel Range Organics (DRO)         C10C28DRO         779         15.0         mg/kg         08.26.17         15.18           Oil Range Hydrocarbons (ORO)         PHCG2835         161         15.0         mg/kg         08.26.17         15.18           Total TPH         PHC635         980.3         15         mg/kg         08.26.17         15.18           Surrogate         Cas Number         %         Limits         Analysis Date         Flag           1-Chlorooctane         111-85-3         99         %         70-135         08.26.17         15.18	Analyst: ARM		Date Prep	o: 08.25.	17 17.00			et Weight	
Gasoline Range Hydrocarbons (GRO)         PHC610         40.3         15.0         mg/kg         08.26.17         15.18           Diesel Range Organics (DRO)         C10C28DRO         779         15.0         mg/kg         08.26.17         15.18           Oil Range Hydrocarbons (ORO)         PHCG2835         161         15.0         mg/kg         08.26.17         15.18           Oil Range Hydrocarbons (ORO)         PHCG35         980.3         15         mg/kg         08.26.17         15.18           Surrogate         Cas Number         %         Limits         Analysis Date         Flag           1-Chlorooctane         111-85-3         99         %         70-135         08.26.17         15.18	Seq Number: 3026104 Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Oil Range Hydrocarbons (ORO)       PHCG2835       161       15.0       mg/kg       08.26.17       15.18         Total TPH       PHC635       980.3       15       mg/kg       08.26.17       15.18         Surrogate       Cas Number       % Recovery       Units       Limits       Analysis Date       Flag         1-Chlorooctane       111-85-3       99       %       70-135       08.26.17       15.18	Gasoline Range Hydrocarbons (GRO)	PHC610	40.3	15.0		mg/kg	v		1
Total TPH         PHC635         980.3         15         mg/kg         08.26.17         15.18           Surrogate         %         Limits         Analysis Date         Flag           1-Chlorooctane         111-85-3         99         %         70-135         08.26.17         15.18	Diesel Range Organics (DRO)	C10C28DRO	779	15.0		mg/kg	08.26.17 15.18		1
Surrogate% Cas NumberUnitsLimitsAnalysis DateFlag1-Chlorooctane111-85-399%70-13508.26.1715.18	Oil Range Hydrocarbons (ORO)	PHCG2835	161	15.0		mg/kg	08.26.17 15.18		1
SurrogateCas NumberRecoveryUnitsLimitsAnalysis DateFlag1-Chlorooctane111-85-399%70-13508.26.1715.18	Total TPH	PHC635	980.3	15		mg/kg	08.26.17 15.18		1
	Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
o-Terphenyl 84-15-1 98 % 70-135 08.26.17 15.18	1-Chlorooctane		111-85-3	99	%	70-135	08.26.17 15.18		
	o-Terphenyl		84-15-1	98	%	70-135	08.26.17 15.18		





## TRC Solutions, Inc, Midland, TX

Sample Id:Exc. A TT @9Lab Sample Id:561286-001	Matrix: Soil Date Collected: 08.23.17 10.10	Date Received:08.25.17 14.00 Sample Depth: 9 - 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026156	Date Prep: 08.28.17 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00216	0.00202		mg/kg	08.28.17 23.54		1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.28.17 23.54	U	1
Ethylbenzene	100-41-4	0.00210	0.00202		mg/kg	08.28.17 23.54		1
m,p-Xylenes	179601-23-1	0.00747	0.00404		mg/kg	08.28.17 23.54		1
o-Xylene	95-47-6	0.00585	0.00202		mg/kg	08.28.17 23.54		1
Total Xylenes	1330-20-7	0.01332	0.00202		mg/kg	08.28.17 23.54		1
Total BTEX		0.01758	0.00202		mg/kg	08.28.17 23.54		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	80-120	08.28.17 23.54		
4-Bromofluorobenzene		460-00-4	81	%	80-120	08.28.17 23.54		





### TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Exc. B TT @8</b> d: 561286-002		Matrix: Date Colle	Soil cted: 08.23.17 10.30		Date Received:08.25.17 14.00 Sample Depth: 8 - 0 ft		
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	MNV					% Moisture:		
Analyst:	MNV		Date Prep:	08.29.17 16.15		Basis: We	et Weight	
Seq Number:	3026248							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	207	4.90	mg/kg	08.30.17 01.20		1

Analytical Method: TPH by SW801	5 Mod		Prep Method: TX1005P					
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 08.25.	17 17.00	E	Basis: We	t Weight	
Seq Number: 3026104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Total TPH	PHC635	<15	15		mg/kg	08.26.17 00.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	08.26.17 00.25		
o-Terphenyl		84-15-1	112	%	70-135	08.26.17 00.25		





### TRC Solutions, Inc, Midland, TX

Sample Id:         Exc. B TT @8           Lab Sample Id:         561286-002	Matrix: Soil Date Collected: 08.23.17 10.30	Date Received:08.25.17 14.00 Sample Depth: 8 - 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026246	Date Prep: 08.29.17 09.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Toluene	108-88-3	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Ethylbenzene	100-41-4	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
m,p-Xylenes	179601-23-1	< 0.0190	0.0190		mg/kg	08.29.17 19.27	U	1
o-Xylene	95-47-6	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Total Xylenes	1330-20-7	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Total BTEX		< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	80-120	08.29.17 19.27		
4-Bromofluorobenzene		460-00-4	89	%	80-120	08.29.17 19.27		





### TRC Solutions, Inc, Midland, TX

Sample Id:	Exc. B SSWB		Matrix:	Soil		Date Received:08.	25.17 14.0	C
Lab Sample I	d: 561286-003		Date Colle	cted: 08.23.17 10.35		Sample Depth: 7 - 5 ft		
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	MNV					% Moisture:		
Analyst:	MNV		Date Prep:	08.29.17 16.15		Basis: We	t Weight	
Seq Number:	3026248							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	58.7	5.00	mg/kg	08.30.17 00.28		1

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3026104	5 Mod	Date Pre	p: 08.25	.17 17.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	36.4	14.9		mg/kg	08.26.17 15.38		1
Diesel Range Organics (DRO)	C10C28DRO	9230	14.9		mg/kg	08.26.17 15.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	2920	14.9		mg/kg	08.26.17 15.38		1
Total TPH	PHC635	12186.4	14.9		mg/kg	08.26.17 15.38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	08.26.17 15.38		
o-Terphenyl		84-15-1	97	%	70-135	08.26.17 15.38		





## TRC Solutions, Inc, Midland, TX

Sample Id:Exc. B SSWBLab Sample Id:561286-003	Matrix: Soil Date Collected: 08.23.17 10.35	Date Received:08.25.17 14.00 Sample Depth: 7 - 5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026250	Date Prep: 08.30.17 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	08.30.17 13.56	U	1
Toluene	108-88-3	0.00848	0.00201		mg/kg	08.30.17 13.56		1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.30.17 13.56	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
Total BTEX		0.00848	0.00201		mg/kg	08.30.17 13.56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	70	%	80-120	08.30.17 13.56	**	
1,4-Difluorobenzene		540-36-3	111	%	80-120	08.30.17 13.56		





## TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>Exc. C TT @9</b> d: 561286-004		Matrix: Date Collec	Soil ted: 08.23.17 10.52		Date Received:08.25.17 14.00 Sample Depth: 9 - 0 ft				
Analytical Me Tech:	ethod: Chloride by EPA 3 MNV	00				Prep Method: % Moisture:	E300P			
Analyst:	MNV		Date Prep:	08.29.17 16.15		Basis:	Wet Weight			
Seq Number:	3026248									
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil		

Tarancter	Cas Number	Kesun	KL	Units	Analysis Date	riag	DII
Chloride	16887-00-6	33.1	4.97	mg/kg	08.30.17 00.38		1

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 08.25.	17 17.00	E	Basis: We	t Weight	
Seq Number: 3026104								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Total TPH	PHC635	<15	15		mg/kg	08.26.17 01.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	08.26.17 01.06		
o-Terphenyl		84-15-1	95	%	70-135	08.26.17 01.06		





### TRC Solutions, Inc, Midland, TX

Sample Id:         Exc. C TT @9           Lab Sample Id:         561286-004	Matrix: Soil Date Collected: 08.23.17 10.52	Date Received:08.25.17 14.00 Sample Depth: 9 - 0 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026156	Date Prep: 08.28.17 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.29.17 00.13	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	80-120	08.29.17 00.13		
1,4-Difluorobenzene		540-36-3	95	%	80-120	08.29.17 00.13		



# **Flagging Criteria**



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

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + 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 561286

# **TRC Solutions, Inc**

<b>Analytical Method:</b>	Chloride by EPA 3	00						Pr	ep Metho	od: E300	OP	
Seq Number:	3026248			Matrix:	Solid				Date Pre	ep: 08.2	9.17	
MB Sample Id:	730075-1-BLK		LCS Sar	nple Id:	730075-1-	BKS		LCSI	D Sample	Id: 7300	)75-1-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	247	99	90-110	0	20	mg/kg	08.29.17 20:19	

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3026248 Matrix:				Soil				Date Pre	ep: 08.2	9.17	
Parent Sample Id:	560863-007	nple Id:	560863-00	)7 S		MS	D Sample	Id: 5608	363-007 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	998	247	1220	90	1200	82	90-110	2	20	mg/kg	08.29.17 23:15	Х

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E300	)P	
Seq Number:	3026248		Matrix: Soil				Date Prep: 08.29.17					
Parent Sample Id:	561383-021		MS Sar	nple Id:	561383-02	21 S		MSI	D Sample	e Id: 5613	383-021 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1290	245	1560	110	1560	110	90-110	0	20	mg/kg	08.29.17 20:50	

Analytical Method:	TPH by S	W8015 M	od						Pı	rep Meth	od: TX1	005P	
Seq Number:	3026104				Matrix:	Solid				Date Pr	ep: 08.2	5.17	
MB Sample Id:	730028-1-	BLK		LCS San	nple Id:	730028-1	BKS		LCS	D Sample	e Id: 7300	)28-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	1180	118	974	97	70-135	19	35	mg/kg	08.25.17 18:40	
Diesel Range Organics (	DRO)	<15.0	1000	1210	121	1130	113	70-135	7	35	mg/kg	08.25.17 18:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		110		1	20		108		70	)-135	%	08.25.17 18:40	
o-Terphenyl		105		1	13		102		70	)-135	%	08.25.17 18:40	
Parameter Gasoline Range Hydrocarbo Diesel Range Organics ( Surrogate 1-Chlorooctane	ons (GRO)	MB Result <15.0 <15.0 MB %Rec 110	Amount 1000 1000 MB	LCS Result 1180 1210 L %1	LCS %Rec 118 121 CS Rec 20	LCSD Result 974 1130 LCS	LCSD %Rec 97 113 LCSI %Rec 108	70-135 70-135 <b>) LCS</b> <b>c Fla</b>	%RPD 19 7 D Li g 70	<b>RPD</b> Limit 35 35 <b>imits</b>	Units mg/kg mg/kg Units %	Analysis Date 08.25.17 18:40 08.25.17 18:40 Analysis Date 08.25.17 18:40	Flag



Analytical Method:	•	W8015 M	lod			G .1			Pr	ep Meth		005P	
Seq Number:	3026104				Matrix:	Soil				Date Pr			
Parent Sample Id:	561229-00	)1		MS Sar	nple Id:	561229-00	01 S		MSI	D Sample	e Id: 5612	229-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	1100	110	1090	109	70-135	1	35	mg/kg	08.25.17 19:40	
Diesel Range Organics	(DRO)	124	999	1210	109	1170	105	70-135	3	35	mg/kg	08.25.17 19:40	
Surrogate					AS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	19		114		70	-135	%	08.25.17 19:40	
o-Terphenyl				1	04		99		70	-135	%	08.25.17 19:40	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3026156 730048-1-BLK	lB		Matrix: nple Id:	Solid 730048-1	-BKS			rep Meth Date Pr D Sample	rep: 08.2	5030B 8.17 048-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.116	117	0.119	119	70-130	3	35	mg/kg	08.28.17 20:28	
Toluene	< 0.00199	0.0994	0.113	114	0.115	115	70-130	2	35	mg/kg	08.28.17 20:28	
Ethylbenzene	< 0.00199	0.0994	0.112	113	0.114	114	71-129	2	35	mg/kg	08.28.17 20:28	
m,p-Xylenes	< 0.00398	0.199	0.220	111	0.225	113	70-135	2	35	mg/kg	08.28.17 20:28	
o-Xylene	< 0.00199	0.0994	0.106	107	0.109	109	71-133	3	35	mg/kg	08.28.17 20:28	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	92		ç	€7		97		80	)-120	%	08.28.17 20:28	
4-Bromofluorobenzene	80		9	91		87		80	0-120	%	08.28.17 20:28	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 8021 3026246 730100-1-BLK	1B		Matrix: nple Id:	Solid 730100-1	-BKS			rep Methe Date Pr D Sample	ep: 08.2	5030B 9.17 100-1-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	0.115	115	0.120	119	70-130	4	35	mg/kg	08.29.17 09:19	
Toluene	< 0.00201	0.100	0.113	113	0.118	117	70-130	4	35	mg/kg	08.29.17 09:19	
Ethylbenzene	< 0.00201	0.100	0.114	114	0.120	119	71-129	5	35	mg/kg	08.29.17 09:19	
m,p-Xylenes	< 0.00402	0.201	0.224	111	0.236	117	70-135	5	35	mg/kg	08.29.17 09:19	
o-Xylene	< 0.00201	0.100	0.108	108	0.114	113	71-133	5	35	mg/kg	08.29.17 09:19	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	91		ç	93		93		80	)-120	%	08.29.17 09:19	
4-Bromofluorobenzene	84		ç	<del>)</del> 0		90		80	0-120	%	08.29.17 09:19	



Analytical Method: Seq Number:	<b>BTEX by EPA 802</b> : 3026250	lB		Matrix:	Solid			P	rep Meth Date Pr	041	5030B 0 17	
MB Sample Id:	730108-1-BLK		LCS Sar		730108-1	-BKS		LCS	D Sample		108-1-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	0.0998	0.116	116	0.114	114	70-130	2	35	mg/kg	08.30.17 10:00	
Toluene	< 0.00200	0.0998	0.114	114	0.112	112	70-130	2	35	mg/kg	08.30.17 10:00	
Ethylbenzene	< 0.00200	0.0998	0.115	115	0.113	113	71-129	2	35	mg/kg	08.30.17 10:00	
m,p-Xylenes	< 0.00399	0.200	0.225	113	0.221	110	70-135	2	35	mg/kg	08.30.17 10:00	
o-Xylene	< 0.00200	0.0998	0.109	109	0.107	107	71-133	2	35	mg/kg	08.30.17 10:00	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	93		9	91		84		80	)-120	%	08.30.17 10:00	
4-Bromofluorobenzene	84		8	87		80		80	0-120	%	08.30.17 10:00	

<b>Analytical Method:</b>	BTEX by EPA 802	1B						Pı	ep Meth	od: SW5	5030B	
Seq Number:	3026156			Matrix:	Soil				Date Pr	ep: 08.2	8.17	
Parent Sample Id:	561227-001		MS San	nple Id:	561227-00	01 S		MS	D Sample	e Id: 5612	227-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.100	99	0.0962	95	70-130	4	35	mg/kg	08.28.17 21:06	
Toluene	< 0.00202	0.101	0.0908	90	0.0865	86	70-130	5	35	mg/kg	08.28.17 21:06	
Ethylbenzene	< 0.00202	0.101	0.0785	78	0.0805	80	71-129	3	35	mg/kg	08.28.17 21:06	
m,p-Xylenes	< 0.00403	0.202	0.151	75	0.154	76	70-135	2	35	mg/kg	08.28.17 21:06	
o-Xylene	< 0.00202	0.101	0.0750	74	0.0786	78	71-133	5	35	mg/kg	08.28.17 21:06	
Surrogate				1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1,4-Difluorobenzene			ç	98		94		80	-120	%	08.28.17 21:06	
4-Bromofluorobenzene			8	38		84		80	-120	%	08.28.17 21:06	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3026246 561286-002	1B		Matrix: nple Id:		)2 S			rep Metho Date Pro D Sample	ep: 08.2	5030B 9.17 286-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00364	0.182	0.205	113	0.230	123	70-130	11	35	mg/kg	08.29.17 11:13	
Toluene	< 0.00364	0.182	0.197	108	0.202	108	70-130	3	35	mg/kg	08.29.17 11:13	
Ethylbenzene	< 0.00364	0.182	0.194	107	0.168	90	71-129	14	35	mg/kg	08.29.17 11:13	
m,p-Xylenes	< 0.00727	0.364	0.379	104	0.304	81	70-135	22	35	mg/kg	08.29.17 11:13	
o-Xylene	< 0.00364	0.182	0.184	101	0.176	94	71-133	4	35	mg/kg	08.29.17 11:13	
Surrogate				AS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	93		117		80	)-120	%	08.29.17 11:13	
4-Bromofluorobenzene			5	88		91		80	0-120	%	08.29.17 11:13	



Analytical Method:	BTEX by EPA 802	1B						$\mathbf{P}_{1}$	rep Meth	od: SW:	5030B	
Seq Number:	3026250			Matrix:	Soil				Date Pr	ep: 08.3	0.17	
Parent Sample Id:	561411-004		MS San	nple Id:	561411-00	04 S		MS	D Sample	e Id: 5614	411-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0803	80	0.0761	75	70-130	5	35	mg/kg	08.30.17 10:38	
Toluene	< 0.00202	0.101	0.0760	75	0.0710	70	70-130	7	35	mg/kg	08.30.17 10:38	
Ethylbenzene	< 0.00202	0.101	0.0732	72	0.0662	66	71-129	10	35	mg/kg	08.30.17 10:38	Х
m,p-Xylenes	< 0.00403	0.202	0.143	71	0.128	63	70-135	11	35	mg/kg	08.30.17 10:38	Х
o-Xylene	< 0.00202	0.101	0.0724	72	0.0685	68	71-133	6	35	mg/kg	08.30.17 10:38	Х
Surrogate				AS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		103	;	80	0-120	%	08.30.17 10:38	
4-Bromofluorobenzene			ç	98		96		80	0-120	%	08.30.17 10:38	

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# CHAIN OF CUSTODY

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San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

							0124109
Client / Reporting Information						Analytical Information	mation Matrix Codes
Company Name / Branch:		Project Name/Number:	mber:	mation			
Company Address:		Jal #3 Field Scrubbers (Open Excavations)	rubbers (Open	Excavations)			W = Water
2057 Commerce Drive Midland, TX 79703		Project Location: Lea Co, NM			xt		S = Soil/Sed/Seid GW =Ground Vater
Email: Phone No: Ilowny@trcsolutions.com		Invoice To: ETC Field Services, C/O Rose Slade	es, C/O Rose Slad	e	E	В	P = Product." SW = Surface water
Project Contact: Joel Lowry					m	1	OW =Ocean/Sea Water
Samplers's Name Joel Lowry		PO Number: SRS Pending	Pending		215	3	0 = 011
		Collection		N			WW= Waste Water
No. Fleld ID / Point of Collection	Sample			-	0H/Zn etate 03 504 0H 0H 0H 0H 0H 0H	TEX 1	A=Ar
1 Exc. A TT Q4'	5	6/72/10 10:10	10 2 Mallix		HI HI Na	(	Field Comments
2 BxC. B TT D 8'			30 4	-		/ )	
3 Ext. B 55W 6	2.5'	E.	35 5		1	1)	
4 Exc. C 770 9'	9.	8 17/17 10:52	52 5	1	/	K,	
ίπ.							
6							
7							
8		-		-			
9							
10		-				2	
Turnaround Time ( Business days)			Da	Data Deliverable Information	mation		
Same Day TAT 5 Day TAT	AT.	П	Level II Std QC	ç	Level IV (Full Data Pkg /raw data)		- Email to Rose and Joel
Next Day EMERGENCY		П	Level III Std QC+ Forms	QC+ Forms			
2 Day EMERGENCY X Contract TAT	TAT	П	Level 3 (CLP Forms)	Forms)	UST / RG -411		
3 Day EMERGENCY		П	TRRP Checklist	list			
TAT Starts Day received by Lab, if received by 5:00 pm	by 5:00 pm						FED-EX / UPS: Tracking #
Relinquished by Sampler: SAMPLE C	Date Time:	CUMENTED BEL	OW EACH TIME S	SAMPLES CHANGE	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		
X	GIZS/1 Date Time:	A 1 Received By:	aived By:	WN1-	Relinquished By:	Date Time: 14	
3 / C		3	3	1	Relinquished By:	Date Time:	Received By:
5	Date Time:	Rece	Received By:		Custody Seal #	Preserved where applicable	5 Custody Seal # Preserved where applicable On Lee Cooler Temp. Thermo. Corr. Factor



# **XENCO Laboratories**



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 08/25/2017 02:00:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 561286	Temperature Measuring device used : r-8
Sample Rec	eipt Checklist Comments
#1 *Temperature of cooler(s)?	3.1
#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 Custod	/? 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)?	Νο
#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: 08/25/2017

Checklist completed by: Jessica Vramer Jessica Kramer Checklist reviewed by: Mark Moak Kelsey Brooks

Date: 08/25/2017



Project Id:Contact:Joel LowryProject Location:Jal, NM

# Certificate of Analysis Summary 565905

TRC Solutions, Inc, Midland, TX Project Name: Jal #3 Field Services

Date Received in Lab:Wed Oct-18-17 04:30 pmReport Date:19-OCT-17Project Manager:Kelsey Brooks

	Lab Id:	565905-001			
Analysis Requested	Field Id:	Exc. B SSWb			
Analysis Kequeslea	Depth:	2.5- ft			
	Matrix:	SOIL			
	Sampled:	Oct-18-17 14:45			
DRO-ORO By SW8015B	Extracted:	Oct-18-17 17:00	ŕ		
	Analyzed:	Oct-19-17 00:08			
	Units/RL:	mg/kg RL			
Diesel Range Organics (DRO)		969 250			
Oil Range Hydrocarbons (ORO)		<250 250			
TPH GRO by EPA 8015 Mod.	Extracted:	Oct-18-17 17:00			
	Analyzed:	Oct-19-17 01:13			
	Units/RL:	mg/kg RL			
TPH-GRO		197 38.8			

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 Roah

Kelsey Brooks Project Manager

Final 1.000

# **Analytical Report 565905**

for TRC Solutions, Inc

**Project Manager: Joel Lowry** 

Jal #3 Field Services

### 19-OCT-17

Collected By: Client



### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



19-OCT-17

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 565905 Jal #3 Field Services Project Address: Jal, NM

### Joel Lowry:

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) 565905. 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. 565905 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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# Sample Cross Reference 565905

## TRC Solutions, Inc, Midland, TX

Jal #3 Field Services

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Exc. B SSWb	S	10-18-17 14:45	2.5 ft	565905-001

Page 4 of 10



Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Services

Project ID: Work Order Number(s): 565905 Report Date: *19-OCT-17* Date Received: *10/18/2017* 

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3030826 DRO-ORO By SW8015B Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 565899-003 S,565899-003 SD,565905-001.



# TRC Solutions, Inc, Midland, TX

Jal #3 Field Services

Sample Id: Exc. B SSWb	Matrix: Soil	Date Received:10.18.17 16.30
Lab Sample Id: 565905-001	Date Collected: 10.18.17 14.45	Sample Depth: 2.5 ft
Analytical Method: DRO-ORO By SW8015B		Prep Method: SW8015P
Tech: PGM		% Moisture:
Analyst: PGM	Date Prep: 10.18.17 17.00	Basis: Wet Weight
Seq Number: 3030826		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	969	250		mg/kg	10.19.17 00.08		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	10.19.17 00.08	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	680	%	65-144	10.19.17 00.08	**	
n-Triacontane		638-68-6	287	%	46-152	10.19.17 00.08	**	

Analytical M	ethod: TPH GRO by EPA 8015 Mod.			Prep Method	: SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.18.17 17.00	Basis:	Wet Weight
Seq Number:	3030804				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	197	38.8		mg/kg	10.19.17 01.13		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene a,a,a-Trifluorotoluene		460-00-4 98-08-8	106 98	% %	76-123 69-120	10.19.17 01.13 10.19.17 01.13		



# **Flagging Criteria**

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

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
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 565905

### **TRC Solutions, Inc**

Jal #3 Field Services

Analytical Method:	DRO-ORO By SW	8015B						Pr	ep Meth	od: SW8	3015P	
Seq Number:	3030826			Matrix:	Solid				Date Pr	ep: 10.1	9.17	
MB Sample Id:	7632830-1-BLK		LCS Sar	nple Id:	7632830-	1-BKS		LCSI	D Sample	e Id: 7632	2830-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO) <25.0	100	100	100	97.5	98	63-139	3	20	mg/kg	10.18.17 17:16	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
Tricosane	106		1	12		107		65	-144	%	10.18.17 17:16	
n-Triacontane	89		:	88		83		46	-152	%	10.18.17 17:16	

Analytical Method:	DRO-ORO	) By SW8	8015B						Pr	ep Meth	od: SW8	3015P	
Seq Number:	3030826				Matrix:	Soil				Date Pr	ep: 10.1	8.17	
Parent Sample Id:	565899-00	3		MS Sar	nple Id:	565899-0	)3 S		MS	D Sample	e Id: 5658	399-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO)	390	100	507	117	503	113	63-139	1	20	mg/kg	10.18.17 22:56	
Surrogate					AS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
Tricosane				3	330	**	309	**	65	-144	%	10.18.17 22:56	
n-Triacontane				2	215	**	221	**	46	-152	%	10.18.17 22:56	

Analytical Method:	TPH GRO by EPA	8015 Mod.						Pr	ep Metho	od: SW5	030B	
Seq Number:	3030804			Matrix:	Solid				Date Pre	ep: 10.1	8.17	
MB Sample Id:	7632837-1-BLK		LCS Sar	nple Id:	7632837-	1-BKS		LCS	D Sample	d: 7632	837-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	20.4	102	22.8	114	35-129	11	20	mg/kg	10.18.17 20:20	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene	102		:	87		88		76	-123	%	10.18.17 20:20	
a,a,a-Trifluorotoluene	116		9	95		99		69	-120	%	10.18.17 20:20	

Analytical Method: Seq Number:	<b>TPH GRO</b> 3030804	by EPA	8015 Mod.		Matrix:	Soil			Pı	ep Meth Date Pr		5030B 8.17	
Parent Sample Id:	565837-00	1		MS Sar	nple Id:	565837-00	01 S		MS	D Sample	e Id: 5658	337-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		2490	990	2610	12	2630	14	35-129	1	20	mg/kg	10.19.17 03:26	Х
Surrogate					AS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				1	04		107		76	-123	%	10.19.17 03:26	
a,a,a-Trifluorotoluene				1	10		114		69	-120	%	10.19.17 03:26	

ATA 1806)678-4514	1 dol 0 400	Analytical Information	s = soilSed/Solid S = SoilSed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface Water SU = Suidge OW = Wipe OW = Wipe M = Wate Water A = Air	Field Comments         Field Comments         Image: State St
CHAIN OF CUSTODY	Midland, TX (432) 704-5440 Service Center - Baton Rouge, LA (832) 712-8143 San Antonio, TX (210) 509-3334 Service Center - Baton Rouge, LA (832) 712-8143		Project Information Project Name/Number: F: eld Surubber 5 Project Location. Sal, Wun Findler To: Involce To: PO Number: PO Number:	Trine     Antrix     effort     HAGO       T. Unit     Antrix     effort     HAGO       2. Urit     J     Antrix     Andrew       Antrix     Antrix     Andrew     Andrew       Antrix     Antrix     Andrew     Andrew       Antrix     Antrix     Antrix     Andrew       Antrix     Antrix     Antrix     Antrix       Antrix     Antrix     Antrix <t< td=""></t<>
XENCO	C A B D K A L D K A L D K L D A C A L D K A L D K A L D K A L D A A L D A A A A A A A A A A A A A	5.65905	solution solutions . I u ~	No.     Field ID / Point of Collection     Sample Depth       1     Ext. & SXw b     2.5     Ortative       2     2     0     2       3     2     0     2       4     2     2     0       5     3     3     3       6     2     0     1       7     2     0     1       6     2     0     1       7     3     3     3       9     3     5     5       10     1     7     7       10     1     7     7       11     Next bay EMERGENCY     7     7       12     2     5     5       13     Day EMERGENCY     7     7       13     Day EMERGENCY     0     7       13     Day EMERGENCY     0     1       14     1     7     7     1       13     Day EMERGENCY     0     1     1       13     Day EMERGENCY     1     7     1       13     Day EMERGENCY     1     7     1       14     1     1     1     1       15     1     1     1     1 <tr< td=""></tr<>

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Revision 2016.1

Page 9 of 10

Final 1.000



# **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 10/18/2017 04:30:00 PM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 565905	Temperature Measuring device used : IR-3							
Sample Rece	ipt Checklist Comments							
#1 *Temperature of cooler(s)?	4.3							
#2 *Shipping container in good condition?	Yes							
#3 *Samples received on ice?	Yes							
#4 *Custody Seals intact on shipping container/ cooler?	N/A							
#5 Custody Seals intact on sample bottles?	N/A							
#6*Custody Seals Signed and dated?	N/A							
#7 *Chain of Custody present?	Yes							
#8 Any missing/extra samples?	Νο							
#9 Chain of Custody signed when relinquished/ received?	Yes							
#10 Chain of Custody agrees with sample labels/matrix?	Yes							
#11 Container label(s) legible and intact?	Yes							
#12 Samples in proper container/ bottle?	Yes							
#13 Samples properly preserved?	Yes							
#14 Sample container(s) intact?	Yes							
#15 Sufficient sample amount for indicated test(s)?	Yes							
#16 All samples received within hold time?	Yes							
#17 Subcontract of sample(s)?	Νο							
#18 Water VOC samples have zero headspace?	N/A							

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

Analyst:

PH Device/Lot#:

Date: 10/18/2017

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Marghorak Kelsey Brooks

Date: 10/19/2017



Project Id:Contact:Joel LowryProject Location:Lea County NM

Certificate of Analysis Summary 561489

TRC Solutions, Inc, Midland, TX Project Name: Jal #3 Field Scrubbers (North BGT)



Date Received in Lab:Tue Aug-29-17 04:55 pmReport Date:05-SEP-17Project Manager:Kelsey Brooks

						1					
Lab Id:	561489-001		561489-002		561489-003		561489-004		561489-005		
Field Id:	N.BGT Floor @18'		N. BGT NSW		N. BGT ESW		N. BGT SSW		N. BGT WSW		
Depth:	18- ft		13- ft		13- ft		13- ft		13- ft		
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
Sampled:	Aug-28-17 11:15		Aug-28-17 11:25		Aug-28-17 11:35		Aug-28-17 11:45		Aug-28-17	11:55	
Extracted:	Sep-05-17 08:30		Sep-05-17 08:30		Sep-05-17 08:30		Sep-01-17 11:00		Sep-05-17 (	)8:30	
Analyzed:	Sep-05-17 10:51		Sep-05-17 09:51		Sep-05-17 10:31		Sep-02-17 11:18		Sep-05-17 (	09:32	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.0502	0.0502	< 0.00202	0.00202	
	0.0223	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	0.584	0.0502	< 0.00202	0.00202	
	0.0773	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	1.02	0.0502	< 0.00202	0.00202	
	0.0812	0.00398	< 0.00399	0.00399	0.00404	0.00402	4.48	0.100	< 0.00403	0.00403	
	0.160	0.00199	< 0.00200	0.00200	0.00596	0.00201	3.58	0.0502	< 0.00202	0.00202	
	0.2412	0.00199	< 0.002	0.002	0.01	0.00201	8.06	0.0502	< 0.00202	0.00202	
	0.3408	0.00199	< 0.002	0.002	0.01	0.00201	9.664	0.0502	< 0.00202	0.00202	
Extracted:	Sep-01-17 11:00		Sep-01-17 11:00		Sep-01-17 11:00		Sep-01-17 11:00		Sep-01-17 14:25		
Analyzed:	Sep-01-17 15:26		Sep-01-17 16:06		Sep-01-17 16:16		Sep-01-17 16:27		Sep-01-17 16:37		
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	88.9	5.00	21.7	5.00	61.4	5.00	104	5.00	24.1	5.00	
Extracted:	Aug-30-17 18:00		Aug-30-17 18:00		Aug-30-17 18:00		Aug-30-17 18:00		Aug-30-17 18:00		
Analyzed:	Aug-31-17 04:59		Aug-31-17 05:20		Aug-31-17 05:42		Aug-31-17 06:03		Aug-31-17 06:23		
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	26.5	15.0	<15.0	15.0	<15.0	15.0	492	14.9	<15.0	15.0	
	345	15.0	<15.0	15.0	190	15.0	1130	14.9	<15.0	15.0	
	110	15.0	<15.0	15.0	53.5	15.0	310	14.9	<15.0	15.0	
	481.5	15	<15	15	243.5	15	1932	14.9	<15	15	
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Field Id:       N.BGT Floc         Depth:       18- ft         Matrix:       SOII         Sampled:       Aug-28-17         Extracted:       Sep-05-17         Analyzed:       Sep-05-17         Units/RL:       mg/kg         0.0223       0.0773         0.0812       0.0812         0.060       0.2412         0.3408       Extracted:         Sep-01-17       Analyzed:         Sep-01-17       Markg         Extracted:       Sep-01-17         Units/RL:       mg/kg         88.9       88.9         Extracted:       Aug-30-17         Analyzed:       Aug-31-17         Units/RL:       mg/kg         26.5       345         345       110	Field Id:       N.BGT Floor @18'         Depth:       18- ft         Matrix:       SOIL         Sampled:       Aug-28-17 11:15         Extracted:       Sep-05-17 08:30         Analyzed:       Sep-05-17 10:51         Units/RL:       mg/kg       RL           <0.00199       0.00199         0.0223       0.00199       0.00199       0.00199         0.0612       0.00398       0.00199         0.0612       0.00199       0.02412       0.00199         0.06160       0.00199       0.3408       0.00199         Extracted:       Sep-01-17 11:00       Sep-01-17 15:26         Units/RL:       mg/kg       RL         Malyzed:       Sep-01-17 15:26       Sep-01-17 15:26         Units/RL:       mg/kg       RL         Malyzed:       Aug-30-17 18:00       Aug-30-17 18:00         Analyzed:       Aug-31-17 04:59       Sep-01-17 15:26         Units/RL:       mg/kg       RL         Z6.5       15.00       345       15.01         Junits/RL:       mg/kg       RL       345       15.02         Units/RL:       110       15.01       15.01       15.01 <th>Field Id:       N.BGT Floor @18'       N. BGT N         Depth:       18- ft       13- ft         Matrix:       SOIL       SOIL         Sampled:       Aug-28-17 11:15       Aug-28-17         Extracted:       Sep-05-17 08:30       Sep-05-17 0         Malyzed:       Sep-05-17 10:51       Sep-05-17 0         Units/RL:       mg/kg       RL       mg/kg         0.00199       0.00199       &lt;0.00200         0.0223       0.00199       &lt;0.00200         0.0100       0.00199       &lt;0.00200         0.0101       0.00199       &lt;0.00200         0.023       0.00199       &lt;0.00200         0.0160       0.00199       &lt;0.00200         0.160       0.00199       &lt;0.0020         0.3408       0.00199       &lt;0.0020         Extracted:       Sep-01-17 11:00       Sep-01-17         Analyzed:       Sep-01-17 15:26       Sep-01-17         Units/RL:       mg/kg       RL       mg/kg         Malyzed:       Sep-01-17 18:00       Aug-30-17         Analyzed:       Aug-30-17 18:00       Aug-30-17         Malyzed:       Aug-30-17 18:00       Aug-31-17         Units/RL:       mg/kg</th> <th>Field Id:       N.BGT Floor @18'       N. BGT NSW         Depth:       18- ft       13- ft         Matrix:       SOIL       SOIL         Sampled:       Aug-28-17 11:15       Aug-28-17 11:25         Extracted:       Sep-05-17 08:30       Sep-05-17 08:30         Analyzed:       Sep-05-17 10:51       Sep-05-17 09:51         Units/RL:       mg/kg       RL       mg/kg       RL          <d0.00199< td="">       0.00199       <d0.00200< td="">       0.00200          0.0223       0.0019       <d0.0020< td="">       0.00200          0.0160       0.00199       <d0.0020< td="">       0.00200          0.160       0.00199       <d0.002< td="">       0.00200          0.2412       0.0199       <d0.002< td="">       0.0020          0.3408       0.00199       <d0.002< td="">       0.002          0.3408       0.0199       <d0.002< td="">       0.002          Sep-01-17 11:00       Sep-01-17 11:00       Sep-01-17 11:00       Sep-01-17 10:0         Analyzed:       Sep-01-17 18:00       Aug-30-17 18:00       Aug-30-17 18:00         Analyzed:       Aug-30-17 18:00       Aug-31-17 05:20       Sug         Analy</d0.002<></d0.002<></d0.002<></d0.002<></d0.0020<></d0.0020<></d0.00200<></d0.00199<></th> <th>Field Id:         N.BGT Floor @18'         N. BGT NSW         N. BGT Floor <math>@18'</math>           Depth:         18- ft         13- ft         13- ft           Matrix:         SOIL         SOIL         SOIL           Sampled:         Aug-28-17 11:15         Aug-28-17 11:25         Aug-28-17           Extracted:         Sep-05-17 08:30         Sep-05-17 08:30         Sep-05-17           Analyzed:         Sep-05-17 10:51         Sep-05-17 09:51         Sep-05-17           Units/RL:         mg/kg         RL         mg/kg         RL         mg/kg           0.0223         0.00199         &lt;0.00200</th> 0.00200         <0.00201	Field Id:       N.BGT Floor @18'       N. BGT N         Depth:       18- ft       13- ft         Matrix:       SOIL       SOIL         Sampled:       Aug-28-17 11:15       Aug-28-17         Extracted:       Sep-05-17 08:30       Sep-05-17 0         Malyzed:       Sep-05-17 10:51       Sep-05-17 0         Units/RL:       mg/kg       RL       mg/kg         0.00199       0.00199       <0.00200         0.0223       0.00199       <0.00200         0.0100       0.00199       <0.00200         0.0101       0.00199       <0.00200         0.023       0.00199       <0.00200         0.0160       0.00199       <0.00200         0.160       0.00199       <0.0020         0.3408       0.00199       <0.0020         Extracted:       Sep-01-17 11:00       Sep-01-17         Analyzed:       Sep-01-17 15:26       Sep-01-17         Units/RL:       mg/kg       RL       mg/kg         Malyzed:       Sep-01-17 18:00       Aug-30-17         Analyzed:       Aug-30-17 18:00       Aug-30-17         Malyzed:       Aug-30-17 18:00       Aug-31-17         Units/RL:       mg/kg	Field Id:       N.BGT Floor @18'       N. BGT NSW         Depth:       18- ft       13- ft         Matrix:       SOIL       SOIL         Sampled:       Aug-28-17 11:15       Aug-28-17 11:25         Extracted:       Sep-05-17 08:30       Sep-05-17 08:30         Analyzed:       Sep-05-17 10:51       Sep-05-17 09:51         Units/RL:       mg/kg       RL       mg/kg       RL <d0.00199< td="">       0.00199       <d0.00200< td="">       0.00200          0.0223       0.0019       <d0.0020< td="">       0.00200          0.0160       0.00199       <d0.0020< td="">       0.00200          0.160       0.00199       <d0.002< td="">       0.00200          0.2412       0.0199       <d0.002< td="">       0.0020          0.3408       0.00199       <d0.002< td="">       0.002          0.3408       0.0199       <d0.002< td="">       0.002          Sep-01-17 11:00       Sep-01-17 11:00       Sep-01-17 11:00       Sep-01-17 10:0         Analyzed:       Sep-01-17 18:00       Aug-30-17 18:00       Aug-30-17 18:00         Analyzed:       Aug-30-17 18:00       Aug-31-17 05:20       Sug         Analy</d0.002<></d0.002<></d0.002<></d0.002<></d0.0020<></d0.0020<></d0.00200<></d0.00199<>	Field Id:         N.BGT Floor @18'         N. BGT NSW         N. BGT Floor $@18'$ Depth:         18- ft         13- ft         13- ft           Matrix:         SOIL         SOIL         SOIL           Sampled:         Aug-28-17 11:15         Aug-28-17 11:25         Aug-28-17           Extracted:         Sep-05-17 08:30         Sep-05-17 08:30         Sep-05-17           Analyzed:         Sep-05-17 10:51         Sep-05-17 09:51         Sep-05-17           Units/RL:         mg/kg         RL         mg/kg         RL         mg/kg           0.0223         0.00199         <0.00200	Field Id:       N.BGT Floor @18'       N. BGT NSW       N. BGT ESW         Depth:       18- ft       13- ft       13- ft       13- ft         Matrix:       SOIL       SOIL       SOIL       SOIL         Sampled:       Aug-28-17 11:15       Aug-28-17 11:25       Aug-28-17 11:35         Extracted:       Sep-05-17 08:30       Sep-05-17 09:51       Sep-05-17 08:30         Analyzed:       Sep-05-17 10:51       Sep-05-17 09:51       Sep-05-17 10:31         Units/RL:       mg/kg       RL       mg/kg       RL       mg/kg       RL         0.0223       0.0199       <0.00200       0.00200       <0.00201       0.00201         0.0273       0.00199       <0.00200       0.00200       <0.00201       0.00201         0.0160       0.00199       <0.00200       0.0020       0.00101       0.00201         0.0404       0.0402        <0.0020       0.0020       0.00201       0.00201         0.0404       0.0199       <0.0020       0.0020       0.0019       <0.0020       0.0020       0.0019       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201       0.00201	Field Id:         N.BGT Floor @ 18'         N. BGT NSW         N. BGT ESW         N. BGT SS           Depth:         18- ft         13- ft         13- ft         13- ft         13- ft           Matrix:         SOIL         SOIL         SOIL         SOIL         SOIL         SOIL           Sampled:         Aug-28-17 11:15         Aug-28-17 11:25         Aug-28-17 11:35         Aug-28-17           Extracted:         Sep-05-17 08:30         Sep-05-17 08:30         Sep-05-17 08:30         Sep-01-17           Analyzed:         Sep-05-17 10:51         Sep-05-17 09:51         Sep-05-17 10:31         Sep-02-17           Units/RL:         mg/kg         RL         mg/kg         RL         mg/kg         RL         mg/kg           0.0223         0.0019         <0.00200	Field Id:         N.BGT Floor ●18 <sup>o</sup> N. BGT NSW         N. BGT ESW         N. BGT SSV           Depth:         18-ft         13-ft         13-f	Field Id:         N.BGT Floor $@$ 18'         N. BGT NSW         N. BGT ESW         N. BGT SSW         Aug-28-17         I.3 - ft         I.3 -	Field II:       N.BGT B>**       N. BGT B>*       N. BGT S>*       N. BGT SS*       N. BGT S**       13 · f'       1

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.



Julian Martinez Project Manager

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

Version: 1.%
# Analytical Report 561489

for TRC Solutions, Inc

Project Manager: Joel Lowry Jal #3 Field Scrubbers (North BGT)

### 05-SEP-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-SEP-17



Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

### Reference: XENCO Report No(s): **561489** Jal #3 Field Scrubbers (North BGT) Project Address: Lea County NM

#### Joel Lowry:

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) 561489. 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. 561489 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Julian Martinez** 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 Id

N.BGT Floor @18' N. BGT NSW N. BGT ESW N. BGT SSW N. BGT WSW

# Sample Cross Reference 561489



Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-28-17 11:15	18 ft	561489-001
S	08-28-17 11:25	13 ft	561489-002
S	08-28-17 11:35	13 ft	561489-003
S	08-28-17 11:45	13 ft	561489-004
S	08-28-17 11:55	13 ft	561489-005





# CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Scrubbers (North BGT)

Project ID: Work Order Number(s): 561489 
 Report Date:
 05-SEP-17

 Date Received:
 08/29/2017

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3026474 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3026700 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: N.BGT Floor @18' Lab Sample Id: 561489-001		Matrix: Date Collecte	Soil d: 08.28.17 11.15		Date Received Sample Depth	d:08.29.17 16.5 n: 18 ft	5
Analytical Method: Chloride by EPA Tech: MNV	300				Prep Method: % Moisture:	E300P	
Analyst: MNV		Date Prep:	09.01.17 11.00		Basis:	Wet Weight	
Seq Number: 3026481							
Parameter	Cas Number	Result F	RL	Units	Analysis D	ate Flag	Dil

					·	U	
Chloride	16887-00-6	88.9	5.00	mg/kg	09.01.17 15.26		1

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3026607	Mod	Date Pre	p: 08.30.	17 18.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	26.5	15.0		mg/kg	08.31.17 04.59		1
Diesel Range Organics (DRO)	C10C28DRO	345	15.0		mg/kg	08.31.17 04.59		1
Oil Range Hydrocarbons (ORO)	PHCG2835	110	15.0		mg/kg	08.31.17 04.59		1
Total TPH	PHC635	481.5	15		mg/kg	08.31.17 04.59		1
Surrogate 1-Chlorooctane o-Terphenyl		<b>Cas Number</b> 111-85-3 84-15-1	% Recovery 107 110	Units % %	<b>Limits</b> 70-135 70-135	<b>Analysis Date</b> 08.31.17 04.59 08.31.17 04.59	Flag	





# TRC Solutions, Inc, Midland, TX

Sample Id:N.BGT Floor @18'Lab Sample Id:561489-001	Matrix: Soil Date Collected: 08.28.17 11.15	Date Received:08.29.17 16.55 Sample Depth: 18 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026700	Date Prep: 09.05.17 08.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.05.17 10.51	U	1
Toluene	108-88-3	0.0223	0.00199		mg/kg	09.05.17 10.51		1
Ethylbenzene	100-41-4	0.0773	0.00199		mg/kg	09.05.17 10.51		1
m,p-Xylenes	179601-23-1	0.0812	0.00398		mg/kg	09.05.17 10.51		1
o-Xylene	95-47-6	0.160	0.00199		mg/kg	09.05.17 10.51		1
Total Xylenes	1330-20-7	0.2412	0.00199		mg/kg	09.05.17 10.51		1
Total BTEX		0.3408	0.00199		mg/kg	09.05.17 10.51		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	80-120	09.05.17 10.51		
1,4-Difluorobenzene		540-36-3	91	%	80-120	09.05.17 10.51		





# TRC Solutions, Inc, Midland, TX

Sample Id: N. Lab Sample Id: 56	<b>BGT NSW</b> 1489-002	Matrix: Date Co	Soil ollected: 08.28.17 11.25		ed:08.29.17 16.55 th: 13 ft
Analytical Method: Tech: MN	Chloride by EPA 300 V			Prep Methoo % Moisture:	
Analyst: MN	V	Date Pr	ep: 09.01.17 11.00	Basis:	Wet Weight
Seq Number: 302	6481				
Parameter	Cas	Number Result	RL	Units Analysis	Date Flag Dil

rarameter	Cas Number	Kesuit	KL	Units	Analysis Date	Flag	Dii
Chloride	16887-00-6	21.7	5.00	mg/kg	09.01.17 16.06		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3026607	5 Mod	Date Pre	p: 08.30.	17 18.00	%	rep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Total TPH	PHC635	<15	15		mg/kg	08.31.17 05.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane o-Terphenyl		111-85-3 84-15-1	113 116	% %	70-135 70-135	08.31.17 05.20 08.31.17 05.20		





# TRC Solutions, Inc, Midland, TX

Sample Id:N. BGT NSWLab Sample Id:561489-002	Matrix: Soil Date Collected: 08.28.17 11.25	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026700	Date Prep: 09.05.17 08.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.05.17 09.51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	09.05.17 09.51	U	1
Total BTEX		< 0.002	0.002		mg/kg	09.05.17 09.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	80-120	09.05.17 09.51		
4-Bromofluorobenzene		460-00-4	102	%	80-120	09.05.17 09.51		





# TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id:N. BGT ESWLab Sample Id:561489-003		Matrix: Date Collecte	Soil ed: 08.28.17 11.35		Date Received Sample Depth		6.55
Analytical Method: Chloride by EPA Tech: MNV Analyst: MNV Seg Number: 3026481	300	Date Prep:	09.01.17 11.00		Prep Method: % Moisture: Basis:	E300P Wet Weigh	ıt
Seq Number: 3026481 Parameter	Cas Number	Result I	хL	Units	Analysis D	ate Flag	Dil

 Chloride
 16887-00-6
 61.4
 5.00
 mg/kg
 09.01.17
 16.16
 1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3026607	5 Mod	Date Pre	p: 08.30	.17 18.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 05.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	190	15.0		mg/kg	08.31.17 05.42		1
Oil Range Hydrocarbons (ORO)	PHCG2835	53.5	15.0		mg/kg	08.31.17 05.42		1
Total TPH	PHC635	243.5	15		mg/kg	08.31.17 05.42		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	08.31.17 05.42		
o-Terphenyl	:	84-15-1	96	%	70-135	08.31.17 05.42		





# TRC Solutions, Inc, Midland, TX

Sample Id:N. BGT ESWLab Sample Id:561489-003	Matrix: Soil Date Collected: 08.28.17 11.35	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026700	Date Prep: 09.05.17 08.30	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	09.05.17 10.31	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.05.17 10.31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.05.17 10.31	U	1
m,p-Xylenes	179601-23-1	0.00404	0.00402		mg/kg	09.05.17 10.31		1
o-Xylene	95-47-6	0.00596	0.00201		mg/kg	09.05.17 10.31		1
Total Xylenes	1330-20-7	0.01	0.00201		mg/kg	09.05.17 10.31		1
Total BTEX		0.01	0.00201		mg/kg	09.05.17 10.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	91	%	80-120	09.05.17 10.31		
4-Bromofluorobenzene		460-00-4	102	%	80-120	09.05.17 10.31		





# TRC Solutions, Inc, Midland, TX

Chloride		16887-00-6	104	5.00	mg/kg	09.01.17 16.27		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3026481							
Analyst:	MNV		Date Prep:	09.01.17 11.00		Basis: We	t Weight	
Tech:	MNV					% Moisture:		
Analytical Me	ethod: Chloride by EP.	A 300				Prep Method: E30	)0P	
Lab Sample Io	Lab Sample Id: 561489-004			cted: 08.28.17 11.45	Sample Depth: 13 ft			
Sample Id:	N. BGT SSW		Matrix:	Soil		Date Received:08.	29.17 16.5	5

Analytical Method: TPH by SW8015 Tech: ARM	5 Mod					rep Method: TX	1005P	
Analyst: ARM		Date Pre	p: 08.30	17 18.00	В	asis: We	Weight	
Seq Number: 3026607			-					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	492	14.9		mg/kg	08.31.17 06.03		1
Diesel Range Organics (DRO)	C10C28DRO	1130	14.9		mg/kg	08.31.17 06.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	310	14.9		mg/kg	08.31.17 06.03		1
Total TPH	PHC635	1932	14.9		mg/kg	08.31.17 06.03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	08.31.17 06.03		
o-Terphenyl		84-15-1	97	%	70-135	08.31.17 06.03		





# TRC Solutions, Inc, Midland, TX

Sample Id:N. BGT SSWLab Sample Id:561489-004	Matrix: Soil Date Collected: 08.28.17 11.45	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:JUMSeq Number:3026474	Date Prep: 09.01.17 11.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0502	0.0502		mg/kg	09.02.17 11.18	U	25
Toluene	108-88-3	0.584	0.0502		mg/kg	09.02.17 11.18		25
Ethylbenzene	100-41-4	1.02	0.0502		mg/kg	09.02.17 11.18		25
m,p-Xylenes	179601-23-1	4.48	0.100		mg/kg	09.02.17 11.18		25
o-Xylene	95-47-6	3.58	0.0502		mg/kg	09.02.17 11.18		25
Total Xylenes	1330-20-7	8.06	0.0502		mg/kg	09.02.17 11.18		25
Total BTEX		9.664	0.0502		mg/kg	09.02.17 11.18		25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	80-120	09.02.17 11.18		
1,4-Difluorobenzene		540-36-3	107	%	80-120	09.02.17 11.18		





# TRC Solutions, Inc, Midland, TX

Sample Id:N. BGT WSWLab Sample Id:561489-005		Matrix: Date Collecte	Soil d: 08.28.17 11.55		Date Received Sample Depth	d:08.29.17 16.5 n: 13 ft	55
Analytical Method: Chloride by EPA ( Tech: MNV	300				Prep Method: % Moisture:	E300P	
Analyst: MNV		Date Prep:	09.01.17 14.25		Basis:	Wet Weight	
Seq Number: 3026651							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

			RE .	emus	1 mary 515 Dute	1 mg	DI
Chloride	16887-00-6	24.1	5.00	mg/kg	09.01.17 16.37		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3026607	5 Mod	Date Pre	p: 08.30.	17 18.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Total TPH	PHC635	<15	15		mg/kg	08.31.17 06.23	U	1
Surrogate 1-Chlorooctane o-Terphenyl		<b>Cas Number</b> 111-85-3 84-15-1	% Recovery 108 107	Units % %	<b>Limits</b> 70-135 70-135	<b>Analysis Date</b> 08.31.17 06.23 08.31.17 06.23	Flag	





# TRC Solutions, Inc, Midland, TX

Sample Id:N. BGT WSWLab Sample Id:561489-005	Matrix: Soil Date Collected: 08.28.17 11.55	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3026700	Date Prep: 09.05.17 08.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.05.17 09.32	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	80-120	09.05.17 09.32		
4-Bromofluorobenzene		460-00-4	104	%	80-120	09.05.17 09.32		



# **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 561489

# **TRC Solutions, Inc** Jal #3 Field Scrubbers (North BGT)

Analytical Method: Seq Number: MB Sample Id:	<b>Chloride by EPA 3</b> 3026481 730241-1-BLK	00		Matrix: Solid LCS Sample Id: 730241-1-BKS						Prep Method: E300P Date Prep: 09.01.17 LCSD Sample Id: 730241-1-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	254	102	90-110	3	20	mg/kg	09.01.17 12:51		
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by EPA 3</b> 3026651 730327-1-BLK	00	LCS Sar	Matrix: nple Id:	Solid 730327-1-	-BKS			ep Metho Date Pro D Sample	ep: 09.0			
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	249	100	249	100	90-110	0	20	mg/kg	09.01.17 20:31		
Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P		

Analytical Michou.	Children by El A St	00						11	cp metho	Ju. 1500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Seq Number:	3026481			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561490-005		MS San	nple Id:	561490-00	)5 S		MSI	O Sample	e Id: 5614	90-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.5	250	254	93	254	93	90-110	0	20	mg/kg	09.01.17 15:06	

Analytical Method:	Chloride by EPA 30	00			Prep Metho					od: E300	)P	
Seq Number:	3026481			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561776-001		MS San	nple Id:	561776-00	01 S		MS	O Sample	Id: 5617	561776-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.2	250	260	92	261	92	90-110	0	20	mg/kg	09.01.17 12:20	

Analytical Method:	Chloride by EPA 30					Pr	ep Metho	d: E30	)P			
Seq Number:	3026651			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561317-002		MS Sar	nple Id:	561317-00	02 S		MSI	O Sample	Id: 5613	317-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1180	245	1410	94	1410	94	90-110	0	20	mg/kg	09.01.17 21:02	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E300	OP	
Seq Number:	3026651			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561526-001		MS Sar	nple Id:	561526-00	01 S		MSD Sample Id: 561526-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	199	246	459	106	458	105	90-110	0	20	mg/kg	09.01.17 23:27	



# **TRC Solutions, Inc** Jal #3 Field Scrubbers (North BGT)

Analytical Method: Seq Number:	3026607	lod		DUG	Prep Method: TX1005P Date Prep: 08.30.17 LCSD Sample Id: 730145-1-BSD								
MB Sample Id:	730145-1-	-BLK		LCS Sar	nple Id:	730145-1	-BKS		LCS	D Sample	e Id: 730	145-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	<15.0	1000	876	88	846	85	70-135	3	35	mg/kg	09.05.17 09:38	
Diesel Range Organics	(DRO)	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	09.05.17 09:38	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		100		1	12		109		70	-135	%	09.05.17 09:38	
o-Terphenyl		103		1	01		97		70	-135	%	09.05.17 09:38	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	od		Matrix: nple Id:	Soil 561470-00	01 S	Prep Method:TX1005PDate Prep:08.30.17MSD Sample Id:561470-001 SD							
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	998	924	93	880	88	70-135	5	35	mg/kg	09.05.17 09:38	
Diesel Range Organics	(DRO)	25.6	998	1020	100	1060	104	70-135	4	35	mg/kg	09.05.17 09:38	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	05		106		70	-135	%	09.05.17 09:38	
o-Terphenyl				97			95 70-135 % 09.05.17 09:38						

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3026474 730240-1-BLK	1B	Matrix: Solid LCS Sample Id: 730240-1-BKS					Prep Method: SW5030B Date Prep: 09.01.17 LCSD Sample Id: 730240-1-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	0.101	101	0.106	106	70-130	5	35	mg/kg	09.01.17 11:55	
Toluene	< 0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	09.01.17 11:55	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.106	106	71-129	4	35	mg/kg	09.01.17 11:55	
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.207	104	70-135	4	35	mg/kg	09.01.17 11:55	
o-Xylene	< 0.00200	0.100	0.0972	97	0.102	102	71-133	5	35	mg/kg	09.01.17 11:55	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	89		ç	94		95		80	0-120	%	09.01.17 11:55	
4-Bromofluorobenzene	93		1	01		103		80	)-120	%	09.01.17 11:55	



# TRC Solutions, Inc

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3026700 730377-1-BLK	1B	Matrix: Solid LCS Sample Id: 730377-1-BKS					Prep Method: SW5030B Date Prep: 09.05.17 LCSD Sample Id: 730377-1-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	0.104	104	0.103	103	70-130	1	35	mg/kg	09.05.17 07:57	
Toluene	< 0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	09.05.17 07:57	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.100	100	71-129	1	35	mg/kg	09.05.17 07:57	
m,p-Xylenes	< 0.00401	0.200	0.198	99	0.196	98	70-135	1	35	mg/kg	09.05.17 07:57	
o-Xylene	< 0.00200	0.100	0.0952	95	0.0945	95	71-133	1	35	mg/kg	09.05.17 07:57	
Surrogate	MB %Rec	MB Flag		•••	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	93		9	<del>)</del> 7		96		80	)-120	%	09.05.17 07:57	
4-Bromofluorobenzene	99		1	05		103	i	80	0-120	%	09.05.17 07:57	

Analytical Method:	BTEX by EPA 802	1B			Prep Method: SW5030B							
Seq Number:	3026474		]	Matrix:	Soil				Date Pr	ep: 09.0	1.17	
Parent Sample Id:	561776-001		MS San	nple Id:	561776-00	01 S		MS	D Sample	e Id: 5617	776-001 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	0.0909	91	0.0922	92	70-130	1	35	mg/kg	09.01.17 12:31	
Toluene	< 0.00200	0.100	0.0857	86	0.0894	89	70-130	4	35	mg/kg	09.01.17 12:31	
Ethylbenzene	< 0.00200	0.100	0.0842	84	0.0865	87	71-129	3	35	mg/kg	09.01.17 12:31	
m,p-Xylenes	< 0.00400	0.200	0.164	82	0.167	84	70-135	2	35	mg/kg	09.01.17 12:31	
o-Xylene	< 0.00200	0.100	0.0836	84	0.0831	83	71-133	1	35	mg/kg	09.01.17 12:31	
Surrogate				IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1,4-Difluorobenzene			1	12		97		80	-120	%	09.01.17 12:31	
4-Bromofluorobenzene			1	09		110		80	-120	%	09.01.17 12:31	

Analytical Method: Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3026700 561383-008	1B		Matrix: nple Id:		08 S			ep Methe Date Pr D Sample	ep: 09.0	5030B 15.17 383-008 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	0.0998	0.103	103	0.104	104	70-130	1	35	mg/kg	09.05.17 16:23	
Toluene	< 0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	09.05.17 16:23	
Ethylbenzene	< 0.00200	0.0998	0.0969	97	0.0982	98	71-129	1	35	mg/kg	09.05.17 16:23	
m,p-Xylenes	< 0.00399	0.200	0.189	95	0.191	96	70-135	1	35	mg/kg	09.05.17 16:23	
o-Xylene	< 0.00200	0.0998	0.0918	92	0.0932	93	71-133	2	35	mg/kg	09.05.17 16:23	
Surrogate				AS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	06		106		80	-120	%	09.05.17 16:23	
4-Bromofluorobenzene			1	14		116		80	-120	%	09.05.17 16:23	



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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: 08/29/2017 04:55:00 PM Temperature Measuring device used : R8 Work Order #: 561489 Comments Sample Receipt Checklist 1.7 #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)? No #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: 08/30/2017

Checklist completed by: James Smath Shawnee Smith Checklist reviewed by: Muss Moah Kelsey Brooks

Date: 08/30/2017



Project Id:Contact:Joel LowryProject Location:Lea County NM

Certificate of Analysis Summary 561490

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 Field Scrubbers (North BGT)



Date Received in Lab:Tue Aug-29-17 04:55 pmReport Date:05-SEP-17Project Manager:Kelsey Brooks

	Lab Id:	561490-0	001	561490-0	02	561490-0	03	561490-0	004	561490-0	05	
	Field Id:	S.BGT Floor	r @18'	S. BGT N	sw	S. BGT E	sw	S. BGT S	SW	S. BGT W	sw	
Analysis Requested	Depth:	18- ft		13- ft		13- ft		13- ft		13- ft		
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		
	Sampled:	Aug-28-17	13:20	Aug-28-17	13:30	Aug-28-17	13:40	Aug-28-17	13:50	Aug-28-17	4:00	
BTEX by EPA 8021B	Extracted:	Sep-01-17	Sep-01-17 11:00		1:00	Sep-01-17 1	1:00	Sep-01-17	11:00	Sep-05-17 0	8:30	
	Analyzed:	Sep-02-17	10:21	Sep-02-17 1	1:56	Sep-02-17 1	2:15	Sep-02-17	11:37	Sep-05-17 1	2:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.202	0.202	< 0.100	0.100	15.6	0.199	< 0.0499	0.0499	< 0.101	0.101	
Toluene		0.443	0.202	4.33	0.100	38.6	0.199	< 0.0499	0.0499	1.90	0.101	
Ethylbenzene		0.661	0.202	6.80	0.100	20.4	0.199	1.04	0.0499	3.23	0.101	
m,p-Xylenes		4.46	0.404	23.7	0.201	50.8	0.398	5.78	0.0998	33.9	0.202	
o-Xylene		2.03	0.202	5.30	0.100	9.64	0.199	2.96	0.0499	7.05	0.101	
Total Xylenes		6.49	0.202	29	0.1	60.44	0.199	8.74	0.0499	40.95	0.101	
Total BTEX		7.594	0.202	40.13	0.1	135.04	0.199	9.78	0.0499	46.08	0.101	
Chloride by EPA 300	Extracted:	Sep-01-17	11:00	Sep-01-17 11:00		Sep-01-17 11:00		Sep-01-17 11:00		Sep-01-17 11:00		
	Analyzed:	Sep-01-17	14:14	Sep-01-17 1	4:24	Sep-01-17 1	4:35	Sep-01-17	14:45	Sep-01-17 14:55		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		105	5.00	313	5.00	95.6	5.00	62.2	5.00	22.5	5.00	
TPH by SW8015 Mod	Extracted:	Aug-30-17	10:00	Aug-30-17	10:00	Aug-30-17	10:00	Aug-30-17	10:00	Aug-31-17 1	6:00	
	Analyzed:	Aug-31-17	07:04	Sep-05-17 (	9:35	Sep-05-17 0	)9:35	Sep-05-17 09:35		Sep-01-17 0	1:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		264	15.0	1290	74.9	2300	74.8	335	14.9	2540	74.9	
Diesel Range Organics (DRO)		979	15.0	3160	74.9	15400	74.8	577	14.9	2220	74.9	
Oil Range Hydrocarbons (ORO)		249	15.0	486	74.9	2500	74.8	65.5	14.9	671	74.9	
Total TPH		1492	15	4936	74.9	20200	74.8	977.5	14.9	5431	74.9	

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

Julian Martinez Project Manager

# Analytical Report 561490

for TRC Solutions, Inc

Project Manager: Joel Lowry Jal #3 Field Scrubbers (North BGT)

### 05-SEP-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-SEP-17



Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

### Reference: XENCO Report No(s): **561490** Jal #3 Field Scrubbers (North BGT) Project Address: Lea County NM

#### Joel Lowry:

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) 561490. 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. 561490 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Julian Martinez** 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 Id

S.BGT Floor @18'
S. BGT NSW
S. BGT ESW
S. BGT SSW
S. BGT WSW

# Sample Cross Reference 561490



# TRC Solutions, Inc, Midland, TX

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-28-17 13:20	18 ft	561490-001
S	08-28-17 13:30	13 ft	561490-002
S	08-28-17 13:40	13 ft	561490-003
S	08-28-17 13:50	13 ft	561490-004
S	08-28-17 14:00	13 ft	561490-005



# CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Scrubbers (North BGT)

Project ID: Work Order Number(s): 561490 
 Report Date:
 05-SEP-17

 Date Received:
 08/29/2017

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3026474 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3026700 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: Lab Sample Id	<b>S.BGT Floor @18'</b> d: 561490-001		Matrix: Date Collec	Soil eted: 08.28.17 13.20		Date Received Sample Depth:		5
Analytical Me	ethod: Chloride by EPA 3	800				Prep Method:	E300P	
Tech:	MNV					% Moisture:		
Analyst:	MNV		Date Prep:	09.01.17 11.00		Basis:	Wet Weight	
Seq Number:	3026481							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil

Chloride	16887-00-6	105	5.00	mg/kg	09.01.17 14.14	1

Analytical Method: TPH by SW8015	Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 08.30	17 10.00	E	asis: We	t Weight	
Seq Number: 3026606								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	264	15.0		mg/kg	08.31.17 07.04		1
Diesel Range Organics (DRO)	C10C28DRO	979	15.0		mg/kg	08.31.17 07.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	249	15.0		mg/kg	08.31.17 07.04		1
Total TPH	PHC635	1492	15		mg/kg	08.31.17 07.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	08.31.17 07.04		
o-Terphenyl		84-15-1	102	%	70-135	08.31.17 07.04		





# TRC Solutions, Inc, Midland, TX

Sample Id:S.BGT Floor @18'Lab Sample Id:561490-001	Matrix: Soil Date Collected: 08.28.17 13.20	Date Received:08.29.17 16.55 Sample Depth: 18 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:JUMSeq Number:3026474	Date Prep: 09.01.17 11.00	Prep Method:SW5030B% Moisture:Basis:Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.202	0.202		mg/kg	09.02.17 10.21	U	100
Toluene	108-88-3	0.443	0.202		mg/kg	09.02.17 10.21		100
Ethylbenzene	100-41-4	0.661	0.202		mg/kg	09.02.17 10.21		100
m,p-Xylenes	179601-23-1	4.46	0.404		mg/kg	09.02.17 10.21		100
o-Xylene	95-47-6	2.03	0.202		mg/kg	09.02.17 10.21		100
Total Xylenes	1330-20-7	6.49	0.202		mg/kg	09.02.17 10.21		100
Total BTEX		7.594	0.202		mg/kg	09.02.17 10.21		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	80-120	09.02.17 10.21		
1,4-Difluorobenzene		540-36-3	81	%	80-120	09.02.17 10.21		





# TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>S. BGT NSW</b> d: 561490-002		Matrix: Date Collec	Soil ted: 08.28.17 13.30		Date Received: Sample Depth:	:08.29.17 16.55 13 ft	5
Analytical Me Tech:	ethod: Chloride by EPA 3 MNV	800				Prep Method: % Moisture:	E300P	
Analyst: Seq Number:	MNV		Date Prep:	09.01.17 11.00		Basis:	Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil

Chloride	16887-00-6	313	5.00	mg/kg	09.01.17 14.24	1

Analytical Method: TPH by SW8015	5 Mod					Prep Method: TX1005P			
Tech: ARM					9	6 Moisture:			
Analyst: ARM		Date Pre	p: 08.30.	17 10.00	E	Basis: Wet	Weight		
Seq Number: 3026606									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	1290	74.9		mg/kg	09.05.17 09.35		5	
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	3160	74.9		mg/kg	09.05.17 09.35		5	
Oil Range Hydrocarbons (ORO)	PHCG2835	486	74.9		mg/kg	09.05.17 09.35		5	
Total TPH	PHC635	4936	74.9		mg/kg	09.05.17 09.35		5	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	1	111-85-3	106	%	70-135	09.05.17 09.35			
o-Terphenyl	8	84-15-1	125	%	70-135	09.05.17 09.35			





# TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT NSWLab Sample Id:561490-002	Matrix: Soil Date Collected: 08.28.17 13.30	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:JUMSeq Number:3026474	Date Prep: 09.01.17 11.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.100	0.100		mg/kg	09.02.17 11.56	U	50
Toluene	108-88-3	4.33	0.100		mg/kg	09.02.17 11.56		50
Ethylbenzene	100-41-4	6.80	0.100		mg/kg	09.02.17 11.56		50
m,p-Xylenes	179601-23-1	23.7	0.201		mg/kg	09.02.17 11.56		50
o-Xylene	95-47-6	5.30	0.100		mg/kg	09.02.17 11.56		50
Total Xylenes	1330-20-7	29	0.1		mg/kg	09.02.17 11.56		50
Total BTEX		40.13	0.1		mg/kg	09.02.17 11.56		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	80-120	09.02.17 11.56		
4-Bromofluorobenzene		460-00-4	106	%	80-120	09.02.17 11.56		





# TRC Solutions, Inc, Midland, TX

Sample Id: Sample Id: 50	<b>. BGT ESW</b> 61490-003		Matrix: Date Colle	Soil cted: 08.28.17 13.40		Date Received Sample Depth	55	
Tech: M Analyst: M	d: Chloride by EPA 3 NV NV 26481	300	Date Prep:	09.01.17 11.00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	95.6	5.00	mg/kg	09.01.17 14	.35	1

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3026606	5 Mod	Date Pre	p: 08.30	17 10.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2300	74.8		mg/kg	09.05.17 09.35		5
Diesel Range Organics (DRO)	C10C28DRO	15400	74.8		mg/kg	09.05.17 09.35		5
Oil Range Hydrocarbons (ORO)	PHCG2835	2500	74.8		mg/kg	09.05.17 09.35		5
Total TPH	PHC635	20200	74.8		mg/kg	09.05.17 09.35		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	09.05.17 09.35		
o-Terphenyl		84-15-1	86	%	70-135	09.05.17 09.35		





# TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT ESWLab Sample Id:561490-003	Matrix: Soil Date Collected: 08.28.17 13.40	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:JUMSeq Number:3026474	Date Prep: 09.01.17 11.00	Prep Method:SW5030B% Moisture:Basis:Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	15.6	0.199		mg/kg	09.02.17 12.15		100
Toluene	108-88-3	38.6	0.199		mg/kg	09.02.17 12.15		100
Ethylbenzene	100-41-4	20.4	0.199		mg/kg	09.02.17 12.15		100
m,p-Xylenes	179601-23-1	50.8	0.398		mg/kg	09.02.17 12.15		100
o-Xylene	95-47-6	9.64	0.199		mg/kg	09.02.17 12.15		100
Total Xylenes	1330-20-7	60.44	0.199		mg/kg	09.02.17 12.15		100
Total BTEX		135.04	0.199		mg/kg	09.02.17 12.15		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	80-120	09.02.17 12.15		
1,4-Difluorobenzene		540-36-3	117	%	80-120	09.02.17 12.15		





# TRC Solutions, Inc, Midland, TX

Sample Id: Lab Sample Id	<b>S. BGT SSW</b> l: 561490-004		Matrix: Date Collec	Soil eted: 08.28.17 13.50	Date Received:08.29.17 16.55 Sample Depth: 13 ft			5
Analytical Me Tech:	thod: Chloride by EPA 3 MNV	00				Prep Method: 1 % Moisture:	E300P	
Analyst: Seq Number:	MNV 3026481		Date Prep:	09.01.17 11.00	]	Basis:	Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil

Chloride	16887-00-6	62.2	5.00	mg/kg	09.01.17 14.45	1

Analytical Method: TPH by SW8015	alytical Method: TPH by SW8015 Mod							Prep Method: TX1005P				
Tech: ARM					%	6 Moisture:						
Analyst: ARM		Date Prep	p: 08.30	17 10.00	В	asis: Wet	Weight					
Seq Number: 3026606												
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil				
Gasoline Range Hydrocarbons (GRO)	PHC610	335	14.9		mg/kg	09.05.17 09.35		1				
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	577	14.9		mg/kg	09.05.17 09.35		1				
Oil Range Hydrocarbons (ORO)	PHCG2835	65.5	14.9		mg/kg	09.05.17 09.35		1				
Total TPH	PHC635	977.5	14.9		mg/kg	09.05.17 09.35		1				
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag					
1-Chlorooctane		111-85-3	105	%	70-135	09.05.17 09.35						
o-Terphenyl		84-15-1	108	%	70-135	09.05.17 09.35						





# TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT SSWLab Sample Id:561490-004	Matrix: Soil Date Collected: 08.28.17 13.50	Date Received:08.29.17 16.55 Sample Depth: 13 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:JUMSeq Number:3026474	Date Prep: 09.01.17 11.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0499	0.0499		mg/kg	09.02.17 11.37	U	25
Toluene	108-88-3	< 0.0499	0.0499		mg/kg	09.02.17 11.37	U	25
Ethylbenzene	100-41-4	1.04	0.0499		mg/kg	09.02.17 11.37		25
m,p-Xylenes	179601-23-1	5.78	0.0998		mg/kg	09.02.17 11.37		25
o-Xylene	95-47-6	2.96	0.0499		mg/kg	09.02.17 11.37		25
Total Xylenes	1330-20-7	8.74	0.0499		mg/kg	09.02.17 11.37		25
Total BTEX		9.78	0.0499		mg/kg	09.02.17 11.37		25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	80-120	09.02.17 11.37		
1,4-Difluorobenzene		540-36-3	101	%	80-120	09.02.17 11.37		





# TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT WSWLab Sample Id:561490-005		Matrix: Date Collecte	Soil ed: 08.28.17 14.00	Date Received:08.29.17 16.55 Sample Depth: 13 ft			55
Analytical Method: Chloride by EPA 3 Tech: MNV Analyst: MNV Seq Number: 3026481	300	Date Prep:	09.01.17 11.00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result 1	8L	Units	Analysis D	ate Flag	Dil

				emus	1111113515 2000	8	211
Chloride	16887-00-6	22.5	5.00	mg/kg	09.01.17 14.55		1

Analytical Method: TPH by SW8015 Mod						Prep Method: TX1005P			
Tech: ARM					9	6 Moisture:			
Analyst: ARM		Date Pre	p: 08.31	17 16.00	E	Basis: Wet	Weight		
Seq Number: 3026608									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	2540	74.9		mg/kg	09.01.17 01.07		5	
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	2220	74.9		mg/kg	09.01.17 01.07		5	
Oil Range Hydrocarbons (ORO)	PHCG2835	671	74.9		mg/kg	09.01.17 01.07		5	
Total TPH	PHC635	5431	74.9		mg/kg	09.01.17 01.07		5	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	121	%	70-135	09.01.17 01.07			
o-Terphenyl		84-15-1	97	%	70-135	09.01.17 01.07			





# TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT WSWLab Sample Id:561490-005		Matrix: Date Collecte	Soil d: 08.28.17 14.00	Date Recei Sample De	ved:08.29.17 16.55 pth: 13 ft	
Analytical Method: BTEX by EPA Tech: ALJ	8021B			Prep Metho % Moistur	od: SW5030B	
Analyst: ALJ		Date Prep:	09.05.17 08.30	Basis:	Wet Weight	
Seq Number: 3026700	Cas Number	Result D	T	Unite Analysi	s Data Flag	Dil

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.101	0.101		mg/kg	09.05.17 12.26	U	50
Toluene	108-88-3	1.90	0.101		mg/kg	09.05.17 12.26		50
Ethylbenzene	100-41-4	3.23	0.101		mg/kg	09.05.17 12.26		50
m,p-Xylenes	179601-23-1	33.9	0.202		mg/kg	09.05.17 12.26		50
o-Xylene	95-47-6	7.05	0.101		mg/kg	09.05.17 12.26		50
Total Xylenes	1330-20-7	40.95	0.101		mg/kg	09.05.17 12.26		50
Total BTEX		46.08	0.101		mg/kg	09.05.17 12.26		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	80	%	80-120	09.05.17 12.26		
4-Bromofluorobenzene		460-00-4	88	%	80-120	09.05.17 12.26		



# **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 561490

# **TRC Solutions, Inc**

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E300	)P	
Seq Number:	3026481			Matrix:	Solid				Date Pre	ep: 09.0	1.17	
MB Sample Id:	730241-1-BLK	30241-1-BLKLCS Sample Id:730241-1-BKSLCSD Sample Id:						d: 7302	241-1-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	254	102	90-110	3	20	mg/kg	09.01.17 12:51	

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3026481			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561490-005		MS Sar	nple Id:	561490-00	)5 S		MS	D Sample	Id: 561	490-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.5	250	254	93	254	93	90-110	0	20	mg/kg	09.01.17 15:06	

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Metho	od: E300	)P	
Seq Number:	3026481			Matrix:	Soil				Date Pre	ep: 09.0	1.17	
Parent Sample Id:	561776-001		MS Sar	nple Id:	561776-00	01 S		MSI	O Sample	d: 5617	76-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.2	250	260	92	261	92	90-110	0	20	mg/kg	09.01.17 12:20	

Analytical Method:	nalytical Method: TPH by SW8015 Mod Prep Method: TX1005P												
Seq Number:	3026606				Matrix:	Solid				Date Pr	ep: 08.3	0.17	
MB Sample Id:	730144-1-	BLK		LCS Sar	nple Id:	730144-1-	BKS		LCS	D Sample	e Id: 7301	144-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	878	88	915	92	70-135	4	35	mg/kg	08.30.17 12:59	
Diesel Range Organics	(DRO)	<15.0	1000	1060	106	1070	107	70-135	1	35	mg/kg	08.30.17 12:59	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		111		1	16		121		70	-135	%	08.30.17 12:59	
o-Terphenyl		115		1	06		113		70	-135	%	08.30.17 12:59	



Analytical Method: Seq Number:	od	LCS Sar	Matrix:		BKS			ep Meth Date Pr D Sample	ep: 08.3	005P 1.17 183-1-BSD			
MB Sample Id: <b>Parameter</b>	730183-1-	MB Result	Spike Amount	LCS Sar LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		<15.0 <15.0	1000 1000	839 1050	7 <b>6 Rec</b> 84 105	895 1040	% <b>кес</b> 90 104	70-135 70-135	6 1	35 35	mg/kg mg/kg	09.05.17 09:41 09.05.17 09:41	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re	-		mits	Units	Analysis Date	
1-Chlorooctane		102		1	03		103		70	-135	%	09.05.17 09:41	
o-Terphenyl		103		Ģ	99		105		70	-135	%	09.05.17 09:41	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	od		Matrix: nple Id:	Soil 561433-00	01 S			ep Metho Date Pro D Sample	ep: 08.3	005P 0.17 433-001 SD			
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	876	88	877	88	70-135	0	35	mg/kg	09.05.17 09:35	
Diesel Range Organics	(DRO)	<15.0	999	1050	105	1080	108	70-135	3	35	mg/kg	09.05.17 09:35	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	25		124		70	-135	%	09.05.17 09:35	
o-Terphenyl				1	04		104		70	-135	%	09.05.17 09:35	

Analytical Method: Seq Number:					Matrix: nple Id:		)6 S			ep Metho Date Pro	ep: 08.3	005P 1.17 470-006 SD	
Parent Sample Id: Parameter	Parameter Parent Spike Result Amount			MS Sal MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (		<15.0 <15.0	999 999	813 1000	81 100	813 1010	82 101	70-135 70-135	0 1	35 35	mg/kg mg/kg	09.05.17 09:41 09.05.17 09:41	
Surrogate					AS Rec	MS Flag	MSE %Re			mits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl					97 94		98 93			-135 -135	% %	09.05.17 09:41 09.05.17 09:41	



Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3026474 730240-1-BLK	1B	LCS Sar	Matrix: nple Id:	Solid 730240-1	-BKS			rep Meth Date Pr D Sample	ep: 09.0	5030B 1.17 240-1-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	0.101	101	0.106	106	70-130	5	35	mg/kg	09.01.17 11:55	
Toluene	< 0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	09.01.17 11:55	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.106	106	71-129	4	35	mg/kg	09.01.17 11:55	
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.207	104	70-135	4	35	mg/kg	09.01.17 11:55	
o-Xylene	< 0.00200	0.100	0.0972	97	0.102	102	71-133	5	35	mg/kg	09.01.17 11:55	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	89		9	94		95		80	0-120	%	09.01.17 11:55	
4-Bromofluorobenzene	93		1	01		103		80	0-120	%	09.01.17 11:55	

<b>Analytical Method:</b>	BTEX by EPA 8021	IB						Pi	ep Meth	od: SW5	5030B	
Seq Number:	3026700			Matrix:	Solid				Date Pr	ep: 09.0	5.17	
MB Sample Id:	730377-1-BLK		LCS San	nple Id:	730377-1	-BKS		LCS	D Sample	e Id: 7303	377-1-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	0.104	104	0.103	103	70-130	1	35	mg/kg	09.05.17 07:57	
Toluene	< 0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	09.05.17 07:57	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.100	100	71-129	1	35	mg/kg	09.05.17 07:57	
m,p-Xylenes	< 0.00401	0.200	0.198	99	0.196	98	70-135	1	35	mg/kg	09.05.17 07:57	
o-Xylene	< 0.00200	0.100	0.0952	95	0.0945	95	71-133	1	35	mg/kg	09.05.17 07:57	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	93		ç	€7		96		80	-120	%	09.05.17 07:57	
4-Bromofluorobenzene	99		1	05		103		80	-120	%	09.05.17 07:57	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3026474 561776-001	lB		Matrix: nple Id:	Soil 561776-00	)1 S			ep Methe Date Pr D Sample	ep: 09.0	5030B 1.17 776-001 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	0.0909	91	0.0922	92	70-130	1	35	mg/kg	09.01.17 12:31	
Toluene	< 0.00200	0.100	0.0857	86	0.0894	89	70-130	4	35	mg/kg	09.01.17 12:31	
Ethylbenzene	< 0.00200	0.100	0.0842	84	0.0865	87	71-129	3	35	mg/kg	09.01.17 12:31	
m,p-Xylenes	< 0.00400	0.200	0.164	82	0.167	84	70-135	2	35	mg/kg	09.01.17 12:31	
o-Xylene	< 0.00200	0.100	0.0836	84	0.0831	83	71-133	1	35	mg/kg	09.01.17 12:31	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	12		97		80	-120	%	09.01.17 12:31	
4-Bromofluorobenzene			1	09		110		80	-120	%	09.01.17 12:31	



Analytical Method: Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3026700 561383-008	1B		Matrix: nple Id:	Soil 561383-00	08 S			rep Meth Date Pr D Sample	ep: 09.0	5030B 5.17 383-008 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	0.0998	0.103	103	0.104	104	70-130	1	35	mg/kg	09.05.17 16:23	
Toluene	< 0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	09.05.17 16:23	
Ethylbenzene	< 0.00200	0.0998	0.0969	97	0.0982	98	71-129	1	35	mg/kg	09.05.17 16:23	
m,p-Xylenes	< 0.00399	0.200	0.189	95	0.191	96	70-135	1	35	mg/kg	09.05.17 16:23	
o-Xylene	< 0.00200	0.0998	0.0918	92	0.0932	93	71-133	2	35	mg/kg	09.05.17 16:23	
Surrogate				/IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	06		106		80	0-120	%	09.05.17 16:23	
4-Bromofluorobenzene			1	14		116		80	0-120	%	09.05.17 16:23	

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# CHAIN OF CUSTODY

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Client / Reporting Information									-		Analy	Analytical Information	ation			
Company Name / Branch:			Proj	Project Information	ition						-			-		Matrix Codes
TRC Environmental		Project Name/Number: Jal #3 Field Scrubb	Project Name/Number: Jal #3 Field Scrubbers (North BCT)	/North BO	1						_	_				
Company Address: 2057 Commerce Drive Midland, TX 79703		Project Location: Lea Co, NM	ation:	(NOINI DO					-							w = water S = Soil/Sed/Solid GW =Ground Water
lutions.com	Phone No:	Invoice To: ETC Field Se	Invoice To: ETC Field Services, CO Rose Slade	se Slade												DW = Drinking Water P = Product
Project Contact: Joel Lowry											-			-		SVV = Surface Water SL = Sludge OW =Ocean/Sea Wate
Samplers's Name Joel Lowry		Invoice: Con	Invoice: Consult Rose Slade for AFE No.	e for AFE No					xt		_		_	-		WI = Wipe
									ΛE	300	3			-		0=01
No. Field ID / Point of Collection		Collection				Number of	Number of preserved bottles	bottles	015 M	e E 3	3021B					WW= Waste Water A = Air
	Sample	Date		_		etate	OH	HSO4	PH 80	nloride	TEX 8					
1 S. BGT Floor @ 18'	48'	8/28/2017		S NIIDIM	н	Ac	Na	-	TI	С	B					Field Comments
2 S. BGT NSW	10	8/28/2017	13:20		-				×	×	×					
3 S. BGT ESW	10	0/00/00/17	13:30	0	-				×	×	×					
4 S. BGT SSW	13	omologia	13:40 <sup>5</sup>	0.	-				×	×	×					
5 S. BGT WSW	13	00000011	13:50 <sup>S</sup>	-	-				×	×	×					
ō	13	OF OF DE OF	14:00 5			-	-	-	×	×	×					
7				-	-			-			-					
8				-	-											
9				-	+											
10				+	-		-	-		-						
Turnaround Time ( Business days)				Data	eliverable Inf						-					
Same Day TAT 6	5 Day TAT		Leve	II Shi On		- 1						Notes:		-		
Next Day EMERGENCY	7 Day TAT		Level	Level III Std OC+ Forms	Forms		Level IV (Full Data Pl		(g /raw data)	ta)		Email Ro	e Slade	Email Rose Slade and Joel Lowry	owry	
2 Day EMERGENCY X C	X Contract TAT		Level	Level 3 (CLP Forms)	ms		INTER LEVEL IV							Tom	19	
3 Day EMERGENCY			TRRP	TRRP Checklist				1						CF:(0-6:		IR ID:R-8
TAT Starts Day received by Lab, if rece	Lab, if received by 5:00 pm		2		s									(6	(6-23· +0 2°C)	
Relinquished by Sampler: SA	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW BACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	OCUMENTED	BELOW BACH	TIME SAM	LESCHANG	E POSSESS	ION, INCLUD	ING COURIER	DELIVE	RY		FED-EX / UPS: Tr	PS: Tr	Corre	Corrected Temp: /	5
in	Date Time!	Sc. 01 61	Received By	MMU	1 Miles	DR.	Relinquished By:	By:			Date Time:		Receiv_	•	in the second se	. /
3 V V C	Date Time:		3 Benelved Bu			4 2	anndrusued	BY:		0	Date Time:		Received By:	d By:		
5 Custody Seal # Preserved where applicable Optice Cooler Temp. Thermo. Corr. Factor			5		ĩ	Q	Custody Seal #	#	P	reserv	ed where	Preserved where applicable		Onlice	Cooler Temp.	Thermo. Corr. Factor

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: 08/29/2017 04:55:00 PM Temperature Measuring device used : R8 Work Order #: 561490 Comments Sample Receipt Checklist 1.7 #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)? No #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: 08/30/2017

Checklist completed by: James Smath Shawnee Smith Checklist reviewed by: Muss Moah Kelsey Brooks

Date: 08/30/2017



Project Id:Contact:Joel LowryProject Location:Jal, NM

#### Certificate of Analysis Summary 565899

TRC Solutions, Inc, Midland, TX

**Project Name: Jal #3 Field Scrubbers** 

Date Received in Lab:Wed Oct-18-17 04:30 pmReport Date:19-OCT-17Project Manager:Kelsey Brooks

	Lab Id:	565899-0	001	565899-0	02	565899-0	03		
An alusia Donu osto d	Field Id:	S. BGT ES	SWb	S. BGT WS	Wb	S. BGT Floo-	@ 21		
Analysis Requested	Depth:	15- ft		15- ft		21- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Oct-18-17	14:25	Oct-18-17 1	4:30	Oct-18-17 1	4:35		
BTEX by EPA 8021B	Extracted:	Oct-18-17	17:00						
	Analyzed:	Oct-18-17	22:33						
	Units/RL:	mg/kg	RL						
Benzene		< 0.196	0.196						
Toluene		2.85	0.196						
Ethylbenzene		2.65	0.196						
Xylenes, Total		9.49	0.196						
Total BTEX		14.99	0.196						
DRO-ORO By SW8015B	Extracted:	Oct-18-17	17:00	Oct-18-17 1	7:00	Oct-18-17 1	7:00		
	Analyzed:	Oct-18-17	21:05	Oct-18-17 2	1:42	Oct-18-17 2	2:19		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Diesel Range Organics (DRO)		3140	250	542	250	390	125		
Oil Range Hydrocarbons (ORO)		396	250	<250	250	<125	125		
TPH GRO by EPA 8015 Mod.	Extracted:	Oct-18-17	17:00	Oct-18-17 1	7:00	Oct-18-17 1	7:00		
	Analyzed:	Oct-18-17	22:33	Oct-19-17 0	0:20	Oct-19-17 0	0:47		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
TPH-GRO		687	39.3	61.0	8.00	272	7.77		

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

Final 1.000

# **Analytical Report 565899**

for TRC Solutions, Inc

Project Manager: Joel Lowry Jal #3 Field Scrubbers

#### **19-OCT-17**

Collected By: Client



#### 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



19-OCT-17

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 565899 Jal #3 Field Scrubbers Project Address: Jal, NM

#### Joel Lowry:

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) 565899. 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. 565899 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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#### Sample Cross Reference 565899

#### TRC Solutions, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S. BGT ESWb	S	10-18-17 14:25	15 ft	565899-001
S. BGT WSWb	S	10-18-17 14:30	15 ft	565899-002
S. BGT Floo-@ 21	S	10-18-17 14:35	21 ft	565899-003



#### CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Scrubbers

Project ID: Work Order Number(s): 565899 Report Date: *19-OCT-17* Date Received: *10/18/2017* 

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3030812 BTEX by EPA 8021B Sample 565899-001 was ran at a dilution due to hydrocarbons.

Batch: LBA-3030826 DRO-ORO By SW8015B

Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 565899-003 S,565899-003 SD,565899-001,565899-002,565899-003.

Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by reanalysis.

Samples affected are: 565899-003 S,565899-003 SD,565899-003,565899-001,565899-002.



#### TRC Solutions, Inc, Midland, TX

Sample Id: S. BGT ESWb	Matrix: Soil	Date Received:10.18.17 16.30
Lab Sample Id: 565899-001	Date Collected: 10.18.17 14.25	Sample Depth: 15 ft
Analytical Method: DRO-ORO By SW8015B		Prep Method: SW8015P
Tech: PGM		% Moisture:
Analyst: PGM	Date Prep: 10.18.17 17.00	Basis: Wet Weight
Seq Number: 3030826		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	3140	250		mg/kg	10.18.17 21.05		10
Oil Range Hydrocarbons (ORO)	PHCG2835	396	250		mg/kg	10.18.17 21.05		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	1490	%	65-144	10.18.17 21.05	**	
n-Triacontane		638-68-6	504	%	46-152	10.18.17 21.05	**	

Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.18.17 17.00	Basis:	Wet Weight
Seq Number:	3030812				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.196	0.196		mg/kg	10.18.17 22.33	U	10
Toluene	108-88-3	2.85	0.196		mg/kg	10.18.17 22.33		10
Ethylbenzene	100-41-4	2.65	0.196		mg/kg	10.18.17 22.33		10
Xylenes, Total	1330-20-7	9.49	0.196		mg/kg	10.18.17 22.33		10
Total BTEX		14.99	0.196		mg/kg	10.18.17 22.33		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	68-120	10.18.17 22.33		
a,a,a-Trifluorotoluene		98-08-8	100	%	71-121	10.18.17 22.33		



#### TRC Solutions, Inc, Midland, TX

Sample Id:S. BGT ESWbLab Sample Id:565899-001	Matrix: Soil Date Collected: 10.18.17 14.25	Date Received:10.18.17 16.30 Sample Depth: 15 ft
Analytical Method:TPH GRO by EPA 8015 Mod.Tech:MITAnalyst:MITSeq Number:3030804	Date Prep: 10.18.17 17.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	687	39.3		mg/kg	10.18.17 22.33		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	76-123	10.18.17 22.33		
a,a,a-Trifluorotoluene		98-08-8	98	%	69-120	10.18.17 22.33		



#### TRC Solutions, Inc, Midland, TX

Sample Id: S. BGT WSWb	Matrix: Soil	Date Received:10.18.17 16.30
Lab Sample Id: 565899-002	Date Collected: 10.18.17 14.30	Sample Depth: 15 ft
Analytical Method: DRO-ORO By SW8015B		Prep Method: SW8015P
Tech: PGM		% Moisture:
Analyst: PGM	Date Prep: 10.18.17 17.00	Basis: Wet Weight
Seq Number: 3030826		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	542	250		mg/kg	10.18.17 21.42		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	10.18.17 21.42	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	386	%	65-144	10.18.17 21.42	**	
n-Triacontane		638-68-6	246	%	46-152	10.18.17 21.42	**	

Analytical M	ethod: TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.18.17 17.00	Basis:	Wet Weight
Seq Number:	3030804				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	61.0	8.00		mg/kg	10.19.17 00.20		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene a.a.a-Trifluorotoluene		460-00-4 98-08-8	102 114	% %	76-123 69-120	10.19.17 00.20 10.19.17 00.20		
a,a,a minuorototuene		10 00 0	114	/0	07-120	10.17.17 00.20		



#### TRC Solutions, Inc, Midland, TX

Sample Id: S. BGT Floo-@ 21	Matrix: Soil	Date Received:10.18.17 16.30
Lab Sample Id: 565899-003	Date Collected: 10.18.17 14.35	Sample Depth: 21 ft
Analytical Method: DRO-ORO By SW8015B		Prep Method: SW8015P
Tech: PGM		% Moisture:
Analyst: PGM	Date Prep: 10.18.17 17.00	Basis: Wet Weight
Seq Number: 3030826		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	390	125		mg/kg	10.18.17 22.19		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<125	125		mg/kg	10.18.17 22.19	U	5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	288	%	65-144	10.18.17 22.19	**	
n-Triacontane		638-68-6	158	%	46-152	10.18.17 22.19	**	

Analytical M	ethod: TPH GRO by EPA 8015 Mod.			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.18.17 17.00	Basis:	Wet Weight
Seq Number:	3030804				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	272	7.77		mg/kg	10.19.17 00.47		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene a.a.a-Trifluorotoluene		460-00-4 98-08-8	113 97	% %	76-123 69-120	10.19.17 00.47 10.19.17 00.47		
a,a,a-1111001010101010		70-00-0	21	/0	07-120	10.17.17 00.47		



## **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	



Analytical Method:	DRO-ORO	By SW8	6015B						Pr	ep Meth	od: SW8	3015P	
Seq Number:	3030826				Matrix:	Solid				Date Pr	ep: 10.1	9.17	
MB Sample Id:	7632830-1-E	BLK		LCS Sar	nple Id:	7632830-	1-BKS		LCS	D Sample	e Id: 7632	2830-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO)	<25.0	100	100	100	97.5	98	63-139	3	20	mg/kg	10.18.17 17:16	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			mits	Units	Analysis Date	
Tricosane		106		1	12		107		65	-144	%	10.18.17 17:16	
n-Triacontane		89		8	88		83		46	-152	%	10.18.17 17:16	

Analytical Method:	DRO-ORO	) By SW8	8015B						Pr	ep Meth	od: SW8	3015P	
Seq Number:	3030826				Matrix:	Soil				Date Pr	ep: 10.1	8.17	
Parent Sample Id:	565899-00	3		MS Sar	nple Id:	565899-0	03 S		MSI	D Sample	e Id: 5658	399-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics	(DRO)	390	100	507	117	503	113	63-139	1	20	mg/kg	10.18.17 22:56	
Surrogate					/IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
Tricosane				3	30	**	309	**	65	-144	%	10.18.17 22:56	
n-Triacontane				2	15	**	221	**	46	-152	%	10.18.17 22:56	

Analytical Method:	BTEX by EPA 802	IB						P	rep Meth	od: SW5	5030B	
Seq Number:	3030812			Matrix:	Solid				Date Pr	ep: 10.1	8.17	
MB Sample Id:	7632835-1-BLK		LCS Sar	nple Id:	7632835-	1-BKS		LCS	D Sample	e Id: 7632	2835-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0200	2.00	2.02	101	2.00	100	55-120	1	20	mg/kg	10.18.17 19:26	
Toluene	< 0.0200	2.00	2.01	101	1.98	99	77-120	2	20	mg/kg	10.18.17 19:26	
Ethylbenzene	< 0.0200	2.00	1.95	98	1.96	98	77-120	1	20	mg/kg	10.18.17 19:26	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
4-Bromofluorobenzene	91		ç	92		91		68	3-120	%	10.18.17 19:26	
a,a,a-Trifluorotoluene	95		8	39		92		71	1-121	%	10.18.17 19:26	

Analytical Method:	BTEX by EPA 802	1B					Prep Method:	SW5	030B	
Seq Number:	3030812			Matrix:	Solid		Date Prep:	10.18	3.17	
MB Sample Id:	7632835-1-BLK		LCS Sar	nple Id:	7632835-1-BKS					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec		Limits	ι	J <b>nits</b>	Analysis Date	Flag
Xylenes, Total	0	6	5.88	98		71-133	m	ng/kg	10.18.17 19:26	



Analytical Method:	BTEX by EPA 8021B
Analy near Michiou.	DIEA UY EIA 0021D

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3030812 565899-001	1B	MS San	Matrix: nple Id:		01 S			ep Metho Date Pro D Sample	ep: 10.1	5030B 8.17 899-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.195	19.5	1.68	9	1.63	8	54-120	3	25	mg/kg	10.18.17 23:00	Х
Toluene	2.85	19.5	4.04	6	3.98	6	57-120	1	25	mg/kg	10.18.17 23:00	Х
Ethylbenzene	2.65	19.5	4.02	7	3.90	7	58-131	3	25	mg/kg	10.18.17 23:00	Х
Xylenes, Total	9.49	58.6	13.83	7	13.6	7	71-133	0	20	mg/kg	10.18.17 23:00	Х
Surrogate				1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene			1	00		90		68	-120	%	10.18.17 23:00	
a,a,a-Trifluorotoluene			9	98		100		71	-121	%	10.18.17 23:00	

Analytical Method:	TPH GRO by EPA	8015 Mod.						Pr	ep Meth	od: SW5	5030B	
Seq Number:	3030804			Matrix:	Solid				Date Pr	ep: 10.1	8.17	
MB Sample Id:	7632837-1-BLK		LCS Sar	nple Id:	7632837-	1-BKS		LCS	D Sample	e Id: 7632	2837-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	20.4	102	22.8	114	35-129	11	20	mg/kg	10.18.17 20:20	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
4-Bromofluorobenzene	102		8	37		88		76	-123	%	10.18.17 20:20	
a,a,a-Trifluorotoluene	116		9	95		99		69	-120	%	10.18.17 20:20	

<b>Analytical Method:</b>	TPH GRO	by EPA	8015 Mod.						Pr	ep Metho	od: SW5	5030B	
Seq Number:	3030804				Matrix:	Soil				Date Pr	ep: 10.1	8.17	
Parent Sample Id:	565837-00	1		MS Sar	nple Id:	565837-00	01 S		MSI	D Sample	e Id: 5658	337-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		2490	990	2610	12	2630	14	35-129	1	20	mg/kg	10.19.17 03:26	Х
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
4-Bromofluorobenzene				1	04		107		76	-123	%	10.19.17 03:26	
a,a,a-Trifluorotoluene				1	10		114		69	-120	%	10.19.17 03:26	

CONSY	ABORATORIES
6	)
2	3

# CHAIN OF CUSTODY

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50589			www.xenco.com	A C	XencoQuote #	Xenco Job #	565899	
/				20	Analytical Information	rmation	Matrix Codes	Codes
Client / Reporting Information		Project Information	formation					
Company Name / Branch; TQCSolutions	<u>r</u>	3m	Field Scoutsbers	29.5			W = Water S = Soil/So	ed/Solid
Company Address: 2057 Countre	Ā	Project Location:					GW = Gro DW = Drin P = Produ	und Water king Water ct
Otre solution.	Phone No:	Invoice To: ETC Field Services		17 9 00 0 11 10 10 10 10 10 10 10 10 10 10 1			SW = Surf SL - Sludg OW = Oce	SW = Surface Water SL - Sludge OW = Ocean/Sea Water WI = Wipe
Project Contact:	<u>D</u>	PO Number:			) 2		0 = Oil WW = Waste Water A = Air	ste Water
amples s vame.				98	2.08			
	ŭ	Collection	Number o	Number of preserved bottles	}			
No. Field ID / Point of Collection	Sample		NO3 BOH/Zu Setate	HOUL BOHE HOOL BOHE HOUL	- <b>1</b> {}			
1 5. BUT ESLUY		wirden 2:25 5		N	1		Field Comments	lts
867		2 06:2 1	-		*		C.	
3 4 BUT FWO-071	12	V 7:25 5	-	*			8 6	
4								
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10 /								
Turnaround Time ( Business days)			Data Deliverable Information		Ż	Notes:		
Same Day TAT	y TAT	Level II Std QC	d oc	Level IV (Full Data Pkg /raw data)		Rush U	Verbuls Lu	
Next Day EMERGENCY	V TAT	Level III S	Level III Std QC+ Forms	TRRP Level IV	r		0020	
2 Day EMERGENCY	Contract TAT	Level 3 (CLP Forms)	LP Forms)	UST/RG-411	2	43-2 QUO 512	52	
3 Day EMERGENCY		Level II R	Level II Report with TRRP checklist	it	-		10	
TAT Starts Day received by Lab, if received by 5:00 pm	ed by 5:00 pm					FED-EX / UPS: Tracking #		
	E CUSTODY MUST BE DOCU	IMENTED BELOW EACH TI	ME SAMPLES CHANGE POS.	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY				
- Auro	Date Time:	Received By: 1		Relinquished By: 2	Date Time:	Received By: 2		
Relinquished by:	Date Time:	Received By: 3		Relinquished By:	Date Time:	Received By:		
Relinquished by: Date Time: Received B	Date Time:	Received By:		ustody Seal #	Preserved where applicable	ble On Ice	Cooler Temp. Thermo. Corr. Factor	orr. Factor

Final 1.000



#### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 10/18/2017 04:30:33 PM	Air and Metal samples Acceptable Range: Ambien					
Work Order #: 565899	Temperature Measuring device used : IR-3					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	4.3					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	Νο					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	No					
#18 Water VOC samples have zero headspace?	N/A					

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

Analyst:

PH Device/Lot#:

Date: 10/18/2017

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Mary Moah Kelsey Brooks

Date: 10/19/2017





**Photo 1:** View of the "Field Scrubber Dump Tanks" prior to removal, facing north.





Photo 2: View of the "Field Scrubber Dump Tanks" prior to removal, facing northeast.





**Photo 3:** View of preparation to removal the northern field scrubber BGT.





**Photo 4:** View of the removal of the northern field scrubber BGT, facing east.





**Photo 5:** View of the bottom of the northern, steel field scrubber BGT.





Photo 6: View of the bottom of the northern, steel field scrubber BGT.





Photo 7: View of the former northern field scrubber BGT location.





**Photo 8:** View of the removal of the southern field scrubber BGT, facing northeast.





Photo 9: View of the bottom of the northern, fiberglass field scrubber BGT.





Photo 10: View of the bottom of the northern, fiberglass field scrubber BGT.





**Photo 11:** View of the former field scrubber BGT's location, facing north.





Photo 12: View of the former southern field scrubber BGT location.





Photo 13: View of excavation of affected soil adjacent to the southern BGT's former location, facing east.





Photo 14: View of Excavation A, facing northeast.





Photo 15: View of Excavation B, facing southeast.





Photo 16: View of Excavation C, facing west.


## Photographic Documentation



Photo 17: View of the Site after remediation activities, facing west.



## Photographic Documentation



Photo 18: View of the Site after remediation activities, facing east.



## Photographic Documentation



**Photo 18:** View of the Site after remediation activities, facing northeast.

LEASE OPERATO	R/SHIPPER/COMPANY:	TC	
LEASE NAME:	Jal #3	Field Scrubb	
	1110110		RCOMPANY COLOR
DATE:	VEHICLE NO:	<u>41                                    </u>	AN'S NAME: KOSE SLAC
CHARGE TO:	= 10	NIG NAI AND NU	
		TYPE OF MATERIAL	
	[] Production Water	[ ] Drilling Fluids	[] Rinsate
	[ ] Tank Bottoms	Contaminated Soil	[] Jet Out
	[] Solids	[ ] BS&W Content:	[ ] Call Out
Descrip	ition:	<b>)</b>	
RRC or API #			C-133#
VOLUME OF MA	TERIAL []BBLS	_: XYARD //	<b>)_:</b>
TO TIME, 40 THERETO, 6 ASSOCIATE GEOTHERM ALSO AS TICKET. TI OPERATOR FACILITY FO	OU.S.C. § 6901, et seq., THE NM H BY VIRTUE OF THE EXEMPTION A D WITH THE EXPLORATION, DEV IAL ENERGY. A CONDITION TO SUNDANCE SEF RANSPORTER REPRESENTS A /SHIPPER TO TRANSPORTER IS I DR DISPOSAL. . CERTIFY that the above Transportion of the time of time of time of the time of time of the time of ti	ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 et IFFORDED DRILLING FLUIDS, PRODU VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE M ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTE Porter loaded the material represented indered by the above described shipped	eseq., AND REGULATIONS RELATED UCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY R TO SUNDANCE SERVICES, INC.'S by this Transporter Statement at the er. This will certify that no additional
above desc	ere added to this load, and that th	he material was delivered without inc	

	IDANCE SERV P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231	TICKET No. 437424	
LEASE OPERATOR	SHIPPER/COMPANY: Jal#3 MPANY: Mark	ETC Field S I Mali Col	TIME TAN I JAN P	2
DATE: //- /4	VEHICLE NO:	GENERAT	OR COMPANY COSE SIM	e
CHARGE TO:	ETC,	RIG N AND	IAME NUMBER	
	· · · · · · · · · · · · · · · · · · ·	TYPE OF MATERIAL		
Descripti	<ul> <li>[ ] Production Water</li> <li>[ ] Tank Bottoms</li> <li>[ ] Solids</li> <li>on:</li> </ul>	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
RRC or API #			C-133#	
VOLUME OF MAT	ERIAL []BBLS	: [X] YARD_/2	<u>}</u>	
TICKET, OPEF MATERIAL EX TO TIME, 40 U THERETO, BY ASSOCIATED GEOTHERMA ALSO AS A TICKET. TRA OPERATOR/S FACILITY FOF <b>THIS WILL C</b> above describ	ATOR/SHIPPER REPRESENTS EMPT FROM THE RESOURCE, J.S.C. § 6901, et seq., THE NM VIRTUE OF THE EXEMPTION WITH THE EXPLORATION, D L ENERGY. CONDITION TO SUNDANCE SI INSPORTER REPRESENTS HIPPER TO TRANSPORTER IS DISPOSAL. CERTIFY that the above Trans and location, and that it was to	AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROI EVELOPMENT OR PRODUCTION OF REVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Porter loaded the material represente endered by the above described ship	MATERIALS SHIPPED WITH THIS JOB TE MATERIAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR E MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S Ed by this Transporter Statement at the per. This will certify that no additional widet	
		the material was delivered without in Apr 2 Gerleuce		
11	White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	1

	ASE OPERATOR/SHIPPER/COMP/	E SERVICES, In Eunice, New Mexico 88231 (575) 394-2511	TICKET No.	43741
	NSPORTER COMPANY:	43 F18	11	
DAT			n Scrub	heis
CHA	RGE TO:	ENO: HT CC	GENERATOR COMPANY	NEC: 35 AM
	ElC		MAN'S NAME:	Se Sta
			RIG NAME AND NUMBER	- Ill
		TYPE OF MATERIA		
	[] Production W			
	[ ] Tank Bottoms [ ] Solids	Contaminated	[] Rinsate	
		[] BS&W Content:	Noil .	
RRC or /	Description: Of	)	[] Call Out	
VOLUMI	OF MATERIAL			
	OF MATERIAL [] BBLS.	: YARD	C-133#	
ASSOC GEOTI- ALSO TICKET. OPERAT FACILITY THIS W	LATED WITH THE EXPLORATION, IERMAL ENERGY. AS A CONDITION TO SUNDANCE TRANSPORTER REPRESENTS OR/SHIPPER TO TRANSPORTER FOR DISPOSAL.	SERVICES, INC.'S ACCEPTANCE OF SERVICES, INC.'S ACCEPTANCE OF ATS AND WARRANTS THAT THE W ACE, CONSERVATION AND RECOVER NM HEALTH AND SAF. CODE § 361. ON AFFORDED DRILLING FLUIDS, F DEVELOPMENT OR PRODUCTION SERVICES, INC.'S ACCEPTANCE OF T AND WARRANTS THAT ONL IS NOW DELIVERED BY TRANSPO Sporter loaded the material represent endered by the above described ship the material was delivered without in	OF 1976, AS AMENDED 001 et seq., AND REGULATION RODUCED WATERS, AND OT OF CRUDE OIL OR NATUR THE MATERIALS SHIPPED WITH Y THE MATERIAL DELIVE RTER TO SUNDANCE	FROM TIME FROM TIME NS RELATED HER WASTE AL GAS OR H THIS JOB ERED BY
	REPRESENTATIVE: SIGNATURE) White - Sundance	RANER Wheeld	ncident.	Idditional

<u> </u>	P.O. Box 1737 Eunice, New (575) 394-25	VICES, Inc. W Mexico 88231	TICKET No.	437436
LEASE OPERATOR/SH	HIPPER/COMPANY:	ETC		
LEASE NAME:	Ja1 #	3 Field SA	rubbers	
TRANSPORTER COM	PANY: Nev	VIA MAIL A	M TIM	
DATE:	VEHICLE NO: 4	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TOR COMPANY	
CHARGE TO:	ETC	RIGI	MAN'S NAME: K.D.	<u>se scua</u>
			NUMBER	
		TYPE OF MATERIAL		
	[] Production Water	[ ] Drilling Fluids	[] Rinsate	
승규는 이 가지 않는 것이 같아요. 이 가지 않는 것이 없는 것이 없 않이 없는 것이 없는 것 않이 없는 것이 없이 없는 것이 없는 것이 없이 없는 것이 없는 것	[ ] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[ ] BS&W Content:	[] Call Out	
Description:	UD			
RRC or API #	•		C-133#	
VOLUME OF MATERIA	L []BBLS.	: YARD		
			· · · · ·	[]*
AS A CONDITI	ON TO SUNDANCE SERVI	CES, INC'S ACCEPTANCE OF THE N	ATERIALS SHIPPED	
MATERIAL EXEMP TO TIME, 40 U.S.C. THERETO, BY VIRT	T FROM THE RESOURCE, C § 6901, et seq., THE NM H UE OF THE EXEMPTION A H THE EXPLORATION DEV	CES, INC.'S ACCEPTANCE OF THE N AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e IFFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF	MATERIAL SHIPPEI OF 1976, AS AMENI t seq., AND REGULA	D HEREWITH IS DED FROM TIME TIONS RELATED
MATERIAL EXEMP TO TIME, 40 U.S.C. THERETO, BY VIRT ASSOCIATED WITH GEOTHERMAL ENE ALSO AS A CONE TICKET. TRANSPO	T FROM THE RESOURCE, C § 6901, et seq., THE NM H UE OF THE EXEMPTION A H THE EXPLORATION, DEV ERGY.	CONSERVATION AND RECOVERY ACT HEALTH AND SAF. CODE § 361.001 e	MATERIAL SHIPPEI OF 1976, AS AMENI t seq., AND REGULA UCED WATERS, AND CRUDE OIL OR NA MATERIALS SHIPPED	D HEREWITH IS DED FROM TIME TIONS RELATED O OTHER WASTE TURAL GAS OR
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MATERIAL EXEMP TO TIME, 40 U.S.C. THERETO, BY VIRT ASSOCIATED WITH GEOTHERMAL ENE ALSO AS A CONE TICKET. TRANSPC OPERATOR/SHIPPE FACILITY FOR DISP THIS WILL CERTI above described loo	T FROM THE RESOURCE, C § 6901, et seq., THE NM H 'UE OF THE EXEMPTION A H THE EXPLORATION, DEV ERGY. DITION TO SUNDANCE SER DRTER REPRESENTS AI ER TO TRANSPORTER IS N 'OSAL. <b>IFY</b> that the above Transpo- cation, and that it was tend	CONSERVATION AND RECOVERY ACT GONSERVATION AND RECOVERY ACT HEALTH AND SAF. CODE § 361.001 e IFFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE N ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTER Priter loaded the material represented deted by the above described in the second	MATERIAL SHIPPEI OF 1976, AS AMENI t seq., AND REGULA UCED WATERS, AND CRUDE OIL OR NA MATERIALS SHIPPED HE MATERIAL D R TO SUNDANCE SI by this Transporter Si	D HEREWITH IS DED FROM TIME TIONS RELATED O OTHER WASTE TURAL GAS OR WITH THIS JOB DELIVERED BY ERVICES, INC.'S
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MATERIAL EXEMP TO TIME, 40 U.S.C. THERETO, BY VIRT ASSOCIATED WITH GEOTHERMAL ENE ALSO AS A CONE TICKET. TRANSPO OPERATOR/SHIPPE FACILITY FOR DISP THIS WILL CERTI above described loc materials were add DRIVER:	T FROM THE RESOURCE, CI § 6901, et seq., THE NM H UE OF THE EXEMPTION A H THE EXPLORATION, DEV ERGY. DITION TO SUNDANCE SER DRTER REPRESENTS AI ER TO TRANSPORTER IS N POSAL. FY that the above Transpo cation, and that it was tend ed to this load, and that the DISCE HER ENTATIVE: (SIGNATURE) E - Sundance Ca	CONSERVATION AND RECOVERY ACT GONSERVATION AND RECOVERY ACT HEALTH AND SAF. CODE § 361.001 e IFFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE N ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTER Priter loaded the material represented deted by the above described in the second	MATERIAL SHIPPEI OF 1976, AS AMENI t seq., AND REGULA UCED WATERS, AND CRUDE OIL OR NA MATERIALS SHIPPED HE MATERIAL D R TO SUNDANCE SI by this Transporter Si r. This will certify tha dent. Pink - Transporter	D HEREWITH IS DED FROM TIME TIONS RELATED O OTHER WASTE TURAL GAS OR WITH THIS JOB DELIVERED BY ERVICES, INC.'S tatement at the it no additional

	P.O. Box 1737 Eunice, 1 (575) 394 SHIPPER/COMPANY:	RVICES, Inc. New Mexico 88231 -2511	TICKET No.	437416
TRANSPORTER COM DATE: //- /4/- / CHARGE TO:	APANY: MRYYU VEHICLE NO:	3 Field MALI Col. Alle G	SPREIDERS TIME/ ENERATOR COMPANY MAN'S NAME: ROSO	233 (AN)PM
			RIG NAME AND NUMBER	June
	] Production Water ] Tank Bottoms	TYPE OF MATERIAL [ ] Drilling Fluids		
	] Solids	Contaminated Soil [] BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out	
RC or API #		<u>ک</u>		
THERETO, BY VIRTUE ASSOCIATED WITH T GEOTHERMAL ENERC ALSO AS A CONDITI TICKET. TRANSPORT OPERATOR/SHIPPER T FACILITY FOR DISPOS/	OF THE SEG., THE NM HE OF THE EXEMPTION AFF HE EXPLORATION, DEVE Y. ON TO SUNDANCE SERVIC ER REPRESENTS AND O TRANSPORTER IS NOW	ES, INC.'S ACCEPTANCE OF THE ND WARRANTS THAT THE WAST NSERVATION AND RECOVERY AC ALTH AND SAF. CODE § 361.001 ORDED DRILLING FLUIDS, PROE LOPMENT OR PRODUCTION OF CES, INC.'S ACCEPTANCE OF THE I WARRANTS THAT ONLY T W DELIVERED BY TRANSPORTED	T OF 1976, AS AMENDED FRO et seq., AND REGULATIONS R DUCED WATERS, AND OTHER CRUDE OIL OR NATURAL O MATERIALS SHIPPED WITH TH THE MATERIAL DELIVERE	EWITH IS OM TIME RELATED WASTE GAS OR HIS JOB D BY
THIS WILL CERTIFY to above described location materials were added to DRIVER:	hat the above Transporter n, and that it was tendere this load, and that the ma u d y h c. c TIVE:	loaded the material represented b d by the above described shipper, aterial was delivered without incid	CES.	
White - Su	ndance Canary	7 - Sundance Acct #1 F es LLC • www.VertigoCreative.com • Fo	Dink - Transporter	

SUNDANCE SE P.O. Box 1737 Eunice, P.O. Box 1	2511		437403
DATE: 11-14-17 VEHICLE NO: CHARGE TO: ETC	HU GEN	VERATOR COMPANY MAN'S NAME: ROSO RIG NAME AND NUMBER	I.C. ANYPA State
[] Production Water [] Tank Bottoms [] Solids Description: RRC or API # VOLUME OF MATERIAL	[ ] Drilling Fluids Contaminated Soil [ ] BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out	
AS A CONDITION TO SUNDANCE SERVICE. TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loc above described location, and that it was tendered materials were added to this load, and that the materials FACILITY REPRESENTATIVE:	LTH AND SAF. CODE § 361.001 et DRDED DRILLING FLUIDS, PRODU OPMENT OR PRODUCTION OF C ES, INC'S ACCEPTANCE OF THE MA WARRANTS THAT ONLY THI DELIVERED BY TRANSPORTER T	OF 1976, AS AMENDED FRC seq., AND REGULATIONS R ICED WATERS, AND OTHER RUDE OIL OR NATURAL G ATERIALS SHIPPED WITH TH E MATERIAL DELIVERED TO SUNDANCE SERVICES	WITH IS DMTIME ELATED WASTE GAS OR IS JOB D BY
(SIGNATURE) White - Sundance	neua		

	(575) 394-24	<b>RVICES, Inc.</b> w Mexico 88231	TICKET No. ASTADE
LEASE OPERATOR/SHIP	PER/COMPANY	FTO	TICKET No. 437425
CLASE NAME:	11 40	LIC .	
TRANSPORTER COMPAN	Y: MA	tight =	Crubbys
DATE: 11-12-1	VEHICLE NO:	11/111 Con	The second se
	VEHICLE NO: C		TIME JOTAM
CHARGE TO:	TC		MAN'S NAME: COST SIN
		RIG I	NAME NUMBER
		TYPE OF MATERIAL	
[]	Production Water		
	Fank Bottoms	[ ] Drilling Fluids	[] Rinsate
[]s		Contaminated Soil	[] Jet Out
Description:	- Oliv	[] BS&W Content:	[] Call Out
RRC or API #			
nnc or API #			
VOLUME OF MATERIAL	[]BBLS.		C-133#
		_: XI YARD	: []
THERETO BY VIDTUS	I, et seq., THE NM HEA	5, INC.'S ACCEPTANCE OF THE MA D WARRANTS THAT THE WASTE N SERVATION AND RECOVERY ACT O LTH AND SAF. CODE § 361.001 et so DRDED DRILLING FLUIDS, PRODUC DPMENT OR PRODUCTION OF CR	F 1976, AS AMENDED FROM TIME eq., AND REGULATIONS RELATED ED WATERS, AND OTHER WASTE
ALSO AS A CONDITION TICKET. TRANSPORTER OPERATOR/SHIPPER TO T FACILITY FOR DISPOSAL. THIS WILL CERTIFY that above described location, a materials were added to this DRIVER:	TO SUNDANCE SERVICI REPRESENTS AND RANSPORTER IS NOW the above Transporter IA and that it was tendered soload, and that the mat	ES, INC.'S ACCEPTANCE OF THE MAT WARRANTS THAT ONLY THE DELIVERED BY TRANSPORTER TO paded the material represented by th by the above described shipper. Th erial was delivered without incident	ERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY SUNDANCE SERVICES, INC.'S
ALSO AS A CONDITION TICKET. TRANSPORTER OPERATOR/SHIPPER TO T FACILITY FOR DISPOSAL. THIS WILL CERTIFY that above described location, a materials were added to this DRIVER: (SIGMATURE) FACILITY REPRESENTATIVE White - Sunda	TO SUNDANCE SERVICI REPRESENTS AND RANSPORTER IS NOW the above Transporter IA and that it was tendered soload, and that the mat and that the mat as $bad, and that the matas bad, and that the matas as a$	ES, INC'S ACCEPTANCE OF THE MAT WARRANTS THAT ONLY THE DELIVERED BY TRANSPORTER TO Daded the material represented by the by the above described shipper. Th erial was delivered without incident	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY D SUNDANCE SERVICES, INC.'S his Transporter Statement at the is will certify that no additional

P.O. Box 1737 Eunice, New Me (575) 394-2511	ICES, Inc. Exico 88231 TICKET No. 434040
LEASE OPERATOR/SHIPPER/COMPANY: E LEASE NAME: Jal #3 TRANSPORTER COMPANY: MENY DATE: 10-110-17 VEHICLE NO: J	TC Field Scrubbers Man Com GENERATOR COMPANY OT GENERATOR COMPANY OSC Scacle RIG NAME
CHARGE TO: EIC	AND NUMBER
<ul> <li>[] Production Water</li> <li>[] Tank Bottoms</li> <li>[] Solids</li> </ul>	TYPE OF MATERIAL         [] Drilling Fluids       [] Rinsate         [] Contaminated Soil       [] Jet Out         [] BS&W Content:       [] Call Out
Description:	C-133#
RRC or API #	: [YARD ]D : []
TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, O TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION / ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	ICES, INC:'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE EVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY S NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S porter loaded the material represented by this Transporter Statement at the endered by the above described shipper. This will certify that no additional
I at any described location and that it was to	endered by the above described shipper. This will certify that no additional the material was delivered without incident.          Babbaa         Canary - Sundance Acct #1    Pink - Transporter

P.O. Box 1737 Eunice, New Me (575) 394-2511	ICES, Inc. Exico 88231 TICKET No. 434038
LEASE OPERATOR/SHIPPER/COMPANY:	17
LEASE NAME: Jal #3 F	field
TRANSPORTER COMPANY: MENYI	IMAN ton surprise
DATE: 0-10-17 VEHICLE NO: 210	GENERATOR COMPANY MAN'S NAME: ROSE STATE
CHARGE TO: ETC	RIG NAME
	YPE OF MATERIAL
[ ] Production Water [ ] Tank Bottoms	[] Drilling Fluids [] Rinsate
	XI Contaminated Soil [] Jet Out
Description:	[ ] BS&W Content: [ ] Call Out
RRC or API #	
	C-133#
VOLUME OF MATERIAL [] BBLS.	
MATERIAL EXEMPT FROM THE RESOURCE, CONS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEAL THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL.	, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB O WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS SERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE DPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY V DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S loaded the material represented by this Transporter Statement at the d by the above described shipper. This will certify that no additional interial was delivered without incident.
FACILITY REPRESENTATIVE:	anma
Canar	y - Sundance Acct #1 Pink - Transporter ces LLC - www.VertigoCreative.com - Form#SDI-004

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See as a discussion for the ingle installer shares where will a series of the teach

P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231	TICKET No.	434039
LEASE OPERATOR/SHIPPER/COMPANY: F LEASE NAME: Jal #3. TRANSPORTER COMPANY: MEYYY DATE: 10-10-17 VEHICLE NO: 9	TC FILLA SCYU Mail Car SS GENERA	bbeys Timi TOR COMPANY MAN'S NAME: PO	3.72 AMPM
CHARGE TO: ETC			
	TYPE OF MATERIAL		
[ ] Production Water [ ] Tank Bottoms [ ] Solids Description:	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: XI YARD /	;	[]
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEN TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo above described location, and that it was ten materials were added to this load, and that th	AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 INFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE IND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT CORTER LOADED THE MATERIAL REPRESENTE CORTER LOADED THE MATERIAL REPRESENTE INDER DATE OF THE MATERIAL REPRESENTE CORTER LOADED THE CORTER LOADE	E MATERIAL SHIPPE T OF 1976, AS AMEN et seq., AND REGUL/ DUCED WATERS, ANI CRUDE OIL OR N/ MATERIALS SHIPPEI THE MATERIAL ER TO SUNDANCE d by this Transporter per. This will certify th	ED HEREWITH IS DED FROM TIME ATIONS RELATED D OTHER WASTE ATURAL GAS OR D WITH THIS JOB DELIVERED BY SERVICES, INC.'S
DRIVER: <u>SIGNATURE</u> FACILITY REPRESENTATIVE:	$\frac{1}{2}$		
(SIGNATURE)	ul		
	Canary - Sundance Acct #1 /e Services LLC + www.VertigoCreative.com	Pink - Transport	er

P.O. Box 1737 Eunice, New Me (575) 394-2511	ICES, Inc. xico 88231 TICKET No. 434027
LEASE OPERATOR/SHIPPER/COMPANY:	TC
LEASE NAME: Ja/ #	3 Field So li
TRANSPORTER COMPANY: MERVIN	Man Con TIME 1:22
DATE: 10-12-17 VEHICLE NO: 0	GENERATOR COMPANY
CHARGE TO: EIC	MAN'S NAME: KOSE Stade
	AND NUMBER
	PE OF MATERIAL
[ ] Production Water [ ] Tank Bottoms	[] Drilling Fluids [] Rinsate
[] [] Solids	Contaminated Soil [] Jet Out
Description:	[] BS&W Content: [] Call Out
RRC or API #	
VOLUME OF MATERIAL [] BBI S	C-133#
VOLUME OF MATERIAL [] BBLS	: <u>YARD</u> : []
TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALT THERETO, BY VIRTUE OF THE EXEMPTION AFFOR ASSOCIATED WITH THE EXPLORATION, DEVELOU GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES TICKET. TRANSPORTER REPRESENTS AND TO OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL.	
	ahena
White - Sundance Canary	- Sundance Acct #1 Pink - Transporter
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where the statistic devices and provide an an advect where

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SUN	P.O. Box 1737 Eunice, Nev (575) 394-25	v Mexico 88231	TICKET No. 43	4026
LEASE OPERATOR/S	SHIPPER/COMPANY: F	TC		
LEASE NAME:	Jal #	3 Field S	rabbers	
TRANSPORTER CON	APANY: MAK	1 Mar Por	TIME TIME	2 ANTONA
DATE: //)-//0	- / VEHICLE NO:		ITOR COMPANY MAN'S NAME: ROSE	SIN
CHARGE TO:	ETC		NAME	Juli
			NUMBER	
		TYPE OF MATERIAL		
	[ ] Production Water	[ ] Drilling Fluids	[] Rinsate	
	[ ] Tank Bottoms	Contaminated Soil	] Jet Out	
	[] Solids	BS&W Content:	[ ] Call Out	
Description	" <u>ID</u>	)		
RC or API #			C-133#	
OLUME OF MATER				
AS A CONDI TICKET, OPERA MATERIAL EXEM TO TIME, 40 U.S. THERETO, BY VI ASSOCIATED W GEOTHERMAL E ALSO AS A CO TICKET. TRANS OPERATOR/SHIF FACILITY FOR DI <b>THIS WILL CER</b> above described	ITION TO SUNDANCE SERV TOR/SHIPPER REPRESENTS MPT FROM THE RESOURCE, ( .C. § 6901, et seq., THE NM IRTUE OF THE EXEMPTION, DI ENERGY. ENDITION TO SUNDANCE SE SPORTER REPRESENTS PORTER REPRESENTS SPORTER REPRESENTS ISPOSAL. RTIFY that the above Transp location, and that it was te	: XI YARD //CES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROJ EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Porter loaded the material represente indered by the above described shipp the material was delivered without in	MATERIALS SHIPPED WITH E MATERIAL SHIPPED HERI T OF 1976, AS AMENDED FR et seq., AND REGULATIONS DUCED WATERS, AND OTHE F CRUDE OIL OR NATURAL MATERIALS SHIPPED WITH THE MATERIAL DELIVER ER TO SUNDANCE SERVICE d by this Transporter Statemet per. This will certify that no a	EWITH IS OM TIME RELATED R WASTE GAS OR THIS JOB RED BY ES, INC.'S
AS A CONDI TICKET, OPERA MATERIAL EXEM TO TIME, 40 U.S. THERETO, BY VI ASSOCIATED W GEOTHERMAL E ALSO AS A CO TICKET. TRANS OPERATOR/SHIF FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a DRIVER: (SIGMATE FACILITY REPR	ITION TO SUNDANCE SERV TOR/SHIPPER REPRESENTS MPT FROM THE RESOURCE, ( .C. § 6901, et seq., THE NM IRTUE OF THE EXEMPTION , ITH THE EXPLORATION, DI ENERGY. NDITION TO SUNDANCE SE SPORTER REPRESENTS , PPER TO TRANSPORTER IS ISPOSAL. RTIFY that the above Transp location, and that it was te idded to this load, and that t	VICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROJ EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Porter loaded the material represente indered by the above described shim	MATERIALS SHIPPED WITH E MATERIAL SHIPPED HERI T OF 1976, AS AMENDED FR et seq., AND REGULATIONS DUCED WATERS, AND OTHE F CRUDE OIL OR NATURAL MATERIALS SHIPPED WITH THE MATERIAL DELIVER ER TO SUNDANCE SERVICE d by this Transporter Statemet per. This will certify that no a	EWITH IS OM TIME RELATED R WASTE GAS OR THIS JOB RED BY ES, INC.'S
AS A CONDI TICKET, OPERA MATERIAL EXEM TO TIME, 40 U.S. THERETO, BY VI ASSOCIATED W GEOTHERMAL E ALSO AS A CO TICKET. TRANS OPERATOR/SHIF FACILITY FOR DI <b>THIS WILL CER</b> above described materials were a DRIVER: (SIGMATE FACILITY REPR	ITION TO SUNDANCE SERV TOR/SHIPPER REPRESENTS MPT FROM THE RESOURCE, ( .C. § 6901, et seq., THE NM RTUE OF THE EXEMPTION , ITH THE EXPLORATION, DI ENERGY. NDITION TO SUNDANCE SE SPORTER REPRESENTS / PPER TO TRANSPORTER IS ISPOSAL. RTIFY that the above Transp I location, and that it was te idded to this load, and that t	VICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROJ EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Porter loaded the material represente indered by the above described shim	MATERIALS SHIPPED WITH E MATERIAL SHIPPED HERI T OF 1976, AS AMENDED FR et seq., AND REGULATIONS DUCED WATERS, AND OTHE F CRUDE OIL OR NATURAL MATERIALS SHIPPED WITH THE MATERIAL DELIVER ER TO SUNDANCE SERVICE d by this Transporter Statemet per. This will certify that no a	EWITH IS OM TIME RELATED R WASTE GAS OR THIS JOB RED BY ES, INC.'S

P.O. Box 1737 Eunice, New Mexico 8823 (575) 394-2511	<b>5, Inc.</b> TICKET No. 434025
LEASE OPERATOR/SHIPPER/COMPANY:	0
LEASE NAME: SAL # 3 Fi	eld Scrubhers
TRANSPORTER COMPANY: MPVNM	an Con TIME/2/ AM/PM)
DATE: 0-10-17 VEHICLE NO: 50	GENERATOR COMPANY MAN'S NAME: COSE STATE
CHARGE TO: ETC	RIG NAME AND NUMBER
TYPE OF	MATERIAL
[ ] Production Water [ ] [	Drilling Fluids [ ] Rinsate
	Contaminated Soil [ ] Jet Out
[] Solids	IS&W Content: [ ] Call Out
Description: 4D	1
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS:	YARD / O : []
HICKEL, OPERATOR/SHIPPER REPRESENTS AND WARR/ MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATIO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED D ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC TICKET. TRANSPORTER REPRESENTS AND WARR/ OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIV FACILITY FOR DISPOSAL.         THIS WILL CERTIFY that the above Transporter loaded to above described location, and that it was tendered by the materials were added to this load, and that the material w         DRIVER:	ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ON AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME D SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE TOR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR SACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ANTS THAT ONLY THE MATERIAL DELIVERED BY ERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S the material represented by this Transporter Statement at the sabove described shipper. This will certify that no additional was delivered without incident.
	idance Acct #1 Pink - Transporter
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P.O. Box 1737 Eunice, New (575) 394-2511	Mexico 88231	TICKET No. 434024	
EASE OPERATOR/SHIPPER/COMPANY:	ETC		
EASE NAME: Ja #3	Field Sci	ubblers	$\overline{A}$
	Man lon.	TIME / 20 AM	(PM)
DATE: 10.10.17 VEHICLE NO: 14	·V	AAN'S NAME: A DUL DUL	de
CHARGETO: ETC	RIG N/ AND N	IUMBER	]
	TYPE OF MATERIAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate	
[ ] Tank Bottoms	JU Contaminated Soil	[ ] Jet Out	
[] Solids	[ ] BS&W Content:	[ ] Call Out	
RRC or API #		C-133#	! 
***		<u>^</u>	
AS A CONDITION TO SUNDANCE SERV	ICES, INC'S ACCEPTANCE OF THE MAST		
AS A CONDITION TO SUNDANCE SERV TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, G TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that	ACCES, INC.'S ACCEPTANCE OF THE A AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROL EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT porter loaded the material represente endered by the above described ship	MATERIALS SHIPPED WITH THIS JOE E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OF MATERIALS SHIPPED WITH THIS JOE THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC. d by this Transporter Statement at the per. This will certify that no additional	5 2 2 2 3 7 5 5
AS A CONDITION TO SUNDANCE SERV TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, O TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, DI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that	ACCES, INC.'S ACCEPTANCE OF THE A AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROL EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT porter loaded the material represente endered by the above described ship	MATERIALS SHIPPED WITH THIS JOE E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OF MATERIALS SHIPPED WITH THIS JOE THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC. d by this Transporter Statement at the per. This will certify that no additional	5 2 2 3 4 5 2 5
AS A CONDITION TO SUNDANCE SERV TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, ( TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, DI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp above described location, and that it was to materials were added to this load, and that DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	ACCES, INC.'S ACCEPTANCE OF THE A AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROL EVELOPMENT OR PRODUCTION OF EVELOPMENT OR PRODUCTION OF ERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT porter loaded the material represente endered by the above described ship	MATERIALS SHIPPED WITH THIS JOE E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OF MATERIALS SHIPPED WITH THIS JOE THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC. d by this Transporter Statement at the per. This will certify that no additional	5 2 2 3 4 5 5

P.O. Box 1737 Eunice, New Mex (575) 394-2511	CES, Inc. ICO 88231 TICKET No.	434013
LEASE OPERATOR/SHIPPER/COMPANY: F7	7	
LEASE NAME: Jal #3	Field Scrubbers	
TRANSPORTER COMPANY: MENNAM	ran (sm. TIME	11:38 AM/PM
DATE: // -/ // VEHICLE NO: J	GENERATOR COMPANY MAN'S NAME: ROSE	San
CHARGE TO: ETC	RIG NAME AND NUMBER	
T	PE OF MATERIAL	********
[ ] Production Water	[ ] Drilling Fluids [ ] Rinsate	
[ ] Tank Bottoms	Contaminated Soil [] Jet Out	
	[] BS&W Content: [] Call Out	
Description:		
RRC or API #	C-133#	
VOLUME OF MATERIAL [] BBLS.	_: X YARD //) :	[ ]
MATERIAL EXEMPT FROM THE RESOURCE, CONSTOTIME, 40 U.S.C. § 6901, et seq., THE NM HEAL         TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEAL         THERETO, BY VIRTUE OF THE EXEMPTION AFFC         ASSOCIATED WITH THE EXPLORATION, DEVEL         GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICE         TICKET. TRANSPORTER REPRESENTS AND         OPERATOR/SHIPPER TO TRANSPORTER IS NOW         FACILITY FOR DISPOSAL.         THIS WILL CERTIFY that the above Transported         above described location, and that it was tender         materials were added to this load, and that the m         DRIVER:       Jox         ISIGNATURE         FACILITY REPRESENTATIVE:         ISIGNATURE         White - Sundance       Canal	, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED D WARRANTS THAT THE WASTE MATERIAL SHIPPED SERVATION AND RECOVERY ACT OF 1976, AS AMEND LTH AND SAF. CODE § 361.001 et seq., AND REGULAT DRDED DRILLING FLUIDS, PRODUCED WATERS, AND OPMENT OR PRODUCTION OF CRUDE OIL OR NAT ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WARRANTS THAT ONLY THE MATERIAL D W DELIVERED BY TRANSPORTER TO SUNDANCE Su r loaded the material represented by this Transporter S ed by the above described shipper. This will certify that aterial was delivered without incident.	D HEREWITH IS DED FROM TIME TIONS RELATED OTHER WASTE TURAL GAS OR WITH THIS JOB ELIVERED BY ERVICES, INC.'S tatement at the It no additional

LEASE OPERATOR/SHIPPER/COMPANY:       ETC         LEASE NAME:       Jale 13         Field       Scrubbers         TRANSPORTER COMPANY:       Merry Main         DATE:       WEHICLE NO:         DATE:       VEHICLE NO:         CHARGE TO:       ETC         RIG NAME AND NUMBER         CHARGE TO:         ETC       RIG NAME AND NUMBER         Contaminated Soil         [] Tank Bottoms       [] Contaminated Soil         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	12
RIG NAME AND NUMBER         CHARGE TO: ETC         TYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	N L
TYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	
[] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soii       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	
[] Production water       [] Johning Hater         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	
RRC or API #       C-133#         VOLUME OF MATERIAL [] BBLS.       :         XAS 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 TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS	
VOLUME OF MATERIAL       [] BBLS:       [] YARD:       []         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         TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS	
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 TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS	
TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAT. COSE S BRODUCED WATERS, AND OTHER WASTE 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. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered 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: 	
White - Sundance Canary - Sundance Acct #1 Pink - Transporter	
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SUNE	P.O. Box 1737 Eunice, New Me (575) 394-2511	•	TICKET No. 434011
LEASE OPERATOR/SH		TC	
	Jal #3	Field Scr	ibbers
TRANSPORTER COMP	ANY: MPrry	man Isn	TIME / / 3/ AMP
DATE: 10-110-1	7 VEHICLE NO: Ja	GENERAT	OR COMPANY COSE Stad
CHARGE TO: E	TC	RIG N AND	IAME NUMBER
	Г	YPE OF MATERIAL	
	] Production Water	[ ] Drilling Fluids	[] Rinsate
1	] Tank Bottoms	Contaminated Soil	[] Jet Out
1	Solids	[] BS&W Content:	[ ] Call Out
Description:	Olin		
RRC or API #			C-133#
VOLUME OF MATERIA		: X1 YARD //	): []
TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WIT GEOTHERMAL EN ALSO AS A CON TICKET. TRANSF OPERATOR/SHIPI FACILITY FOR DIS	. § 6901, et seq., THE NM HE TUE OF THE EXEMPTION AF TH THE EXPLORATION, DEVI IERGY. IDITION TO SUNDANCE SERV PORTER REPRESENTS AN PER TO TRANSPORTER IS N IPOSAL.	ALTH AND SAF. CODE § 361.001 ( FORDED DRILLING FLUIDS, PROD ELOPMENT OR PRODUCTION OF /ICES, INC.'S ACCEPTANCE OF THE ID WARRANTS THAT ONLY OW DELIVERED BY TRANSPORT	T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S
above described l	ocation, and that it was tend	ter loaded the material represente lered by the above described shipp material was delivered without in	ed by this Transporter Statement at the oer. This will certify that no additional acident.
	land Mar	<u> </u>	
		2	
Wł	ite - Sundance Ca	anary - Sundance Acct #1	Pink - Transporter

P.O. Box 1737 Eunice, No (575) 394-2	ew Mexico 88231	TICKET No. 434010
LEASE OPERATOR/SHIPPER/COMPANY: F LEASE NAME: Sal #3 TRANSPORTER COMPANY: MEYRO DATE: 10-10-17 VEHICLE NO:	yman Con.	DERS TIME []; 32 (D)/PM TOR COMPANY MAN'S NAME ROSE SLADLE
CHARGE TO: ETC		NUMBER
	TYPE OF MATERIAL	
[ ] Production Water [ ] Tank Bottoms [ ] Solids Description:	[ ] Drilling Fluids Contaminated Soil [ ] BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out
RRC or API #	100	C-133#
VOLUME OF MATERIAL [] BBLS	: [V YARD_](	
TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURC TO TIME, 40 U.S.C. § 6901, et seq., THE N THERETO, BY VIRTUE OF THE EXEMPTIC ASSOCIATED WITH THE EXPLORATION, GEOTHERMAL ENERGY.	CE, CONSERVATION AND RECOVERY AC NM HEALTH AND SAF. CODE § 361.001 ON AFFORDED DRILLING FLUIDS, PROI , DEVELOPMENT OR PRODUCTION O E SERVICES, INC.'S ACCEPTANCE OF THI AND WARRANTS THAT ONLY IS NOW DELIVERED BY TRANSPORT ANSPORTER loaded the material represented to tendered by the above described ship	TE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR E MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S ed by this Transporter Statement at the per. This will certify that no additional

and the second

P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	Inc.	TICKET No.	433994
LEASE OPERATOR/SHIPPER/COMPANY: ETC LEASE NAME: Ja # 3 TRANSPORTER COMPANY: MEYRIMA	Teld S M Con GENERATOR	Crube TIN RCOMPANY	DEVS NEQ. 38 AM/PM
DATE: $D - 10 - 17$ vehicle NO: $4^{\prime}$			St Sude
Түре оғ	MATERIAL		
[] Tank Bottoms [] Co	illing Fluids Intaminated Soil &W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Ou	:
RRC or API #		C-133#	
VOLUME OF MATERIAL []BBLS:	VARD	2:	[]
AS A CONDITION TO SUNDANCE SERVICES, INC'S A TICKET, OPERATOR/SHIPPER REPRESENTS AND WARKA MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED D ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC. TICKET. TRANSPORTER REPRESENTS AND WARF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIT FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded above described location, and that it was tendered by th materials were added to this load, and that the material DRIVER: ISIGNATURE FACILITY REPRESENTATIVE: White - Sundance Canary - SU	ANTS THAT THE WAST ON AND RECOVERY ACT SAF. CODE § 361.001 ( RILLING FLUIDS, PROE TOR PRODUCTION OF S ACCEPTANCE OF THE ANTS THAT ONLY VERED BY TRANSPORT (the material represent the above described ship	T OF 1976, AS AN et seq., AND REG DUCED WATERS, F CRUDE OIL OF E MATERIALS SHII THE MATERIA TER TO SUNDAN ed by this Transpo oper. This will cert	AENDED FROM TIME ULATIONS RELATED AND OTHER WASTE & NATURAL GAS OR PPED WITH THIS JOB L DELIVERED BY ICE SERVICES, INC:S Porter Statement at the ify that no additional
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P.O. Box 1737 Eunice, New Mexico (575) 394-2511	<b>CES, Inc.</b> TICKET No. 433995
EASE OPERATOR/SHIPPER/COMPANY: E EASE NAME: DAL #3 F TRANSPORTER COMPANY: METTY M DATE: 10-100-17 VEHICLE NO: 0	IC IRIA SCUMBBENS NORN COM. GENERATOR COMPANY GENERATOR COMPANY MAN'S NAME RIG NAME
CHARGE TO: ETC	AND NUMBER
<ul> <li>[ ] Production Water</li> <li>[ ] Tank Bottoms</li> <li>[ ] Solids</li> </ul>	YPE OF MATERIAL         [] Drilling Fluids       [] Rinsate         [X Contaminated Soil       [] Jet Out         [] BS&W Content:       [] Call Out
Description:	C-133#
RRC or API #	: [VYARD / O : []
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transp	CES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE VELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S porter loaded the material represented by this Transporter Statement at the endered by the above described shipper. This will certify that no additional the material was delivered without incident.

LEASE OPERATOR/SHIPPER/COMPANY:       Image: I	P.O. Box 1737 Eunice, (575) 394	New Mexico 88231	TICKET No. 433996
TRANSPORTER COMPRANY:       TWEY LEW COMPANY:       TIME OF THE COMPANY:       TIME OF THE COMPANY:         DATE:       D-ILO - / TVEHICLE NO:       DEMEMBED AND COMPANY       TIME OF THE COMPANY:         CHARGE TO:       E.TC       Incompany       TIME OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	LEASE OPERATOR/SHIPPER/COMPANY:	ETC	
TRANSPORTER COMPRINT:       Mary Mark Mark Mark Mark Mark Mark Mark Mark		3 Field So	vilbhens
DATE:       D-1/b - / TVEHICLE NO:       B         GHEARDOR COMMANY       MASS NAME:       ROSALT         CHARGE TO:       ETC       Inc NAME         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy       Image: Common Strategy       Image: Common Strategy       Image: Common Strategy         Image: Common Strategy<	1/10/	and a the	TIMAT !!!!
Improve of the sequence of the sequ	DATE: 10-16-17VEHICLE NO:	El Genera	
TYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	CHARGE TO: ETC		
[] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:		×	
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Pink - Transporter	(SIGNATURE)	<u>Munina</u>	
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Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004	L	.reative Services LLC • www.VertigoCreative.com	n • Form#SDI-004

P.O. Box 1737 EURICE, New MEXICO 60237 (575) 394-2511 EASE OPERATOR/SHIPPER/COMPANY: ETC EASE NAME: A # 3 Field Scyubblys TRANSPORTER COMPANY: MARY MARY COM, TIME Q. (1780)/PM TRANSPORTER COMPANY: MARY MARY COM, GENERATOR COMPANY MAN'S NAME: COSE Stands MAN'S NAME: COSE Stands MAN'S NAME: COSE Stands MAN'S NAME: COSE Stands		1
EASE NAME:	SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 TICKET No. 433997	
All E       Image To:	LEASE NAME: 142 TIME ON TIME O, 420 MM	IPM
. [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Jet Out         [] Solids       [] Solids         Description:		
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(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter	(SIGNATURE) FACILITY REPRESENTATIVE: STAULUA	
Reorder fram: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004	(SIGNATURE) Pink - Transporter	
	Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004	

ASE NAME: Jal #3 Field SCHUDDERS ANSPORTER COMPANY: MERICIAN COM TE: 10-17-17 VEHICLE NO: 01 GENERATOR COMPANY MAN'S NAME: ROSE SLACLE RIG NAME	Image: Service of the service of th	P.O. Box 1737 Eunice, New Mex (575) 394-2511	<b>CES, Inc.</b> ico 88231	TICKET No.	434155
TE: D-10-17       VEHICLE NO: DOL       MAYS NAME & CUSE SILUCION         ARGE TO: ETC       If GNAME AND NUMBER         ITYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:	E:       D-1/1       VEHICLE NO:       D       MARYSINME, K. U.S. SULLACE.         RGE TO:       E. T.C.       RGE NAME       RGE NAME       RGE NAME         I ank Bottoms       I Drilling Fluids       I Rinsate         I Tank Bottoms       I Contaminated Soil       I Jet Out         I Solids       I BS&W Content:       I Call Out         Description:       I BS&W Content:       I Call Out         Cor API #       C-133#         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 ( 1BBLS.       :       I YARD_ID       :       I I	ANSPORTER COMPANY: MEYKA	ninn Por	T	TIME ( 57 AM/PM
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AC or API # C-133# Colume of Material []BBLS: VARD: []_: []	E or API #       C-133#         LLUME OF MATERIAL       []BBLS	[] Tank Bottoms      [] Solids      [] []	$\chi^{1}$ Contaminated S	oil []Jet(	Dut
DLUME OF MATERIAL       [] BBLS	LUME OF MATERIAL       []BBLS			C-133#	
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 TARENTO, 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.	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. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional imaterials were added to this load, and that the material was delivered without incident. DRIVER: 			· 10:	[]
	(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter	TICKET, OPERATOR/SHIPPER REPRESENTS / MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SET TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. <b>THIS WILL CERTIFY</b> that the above Transp above described location, and that it was te materials were added to this load, and that the	AND WARKAN'S THAT TO ONSERVATION AND RECO' IEALTH AND SAF. CODE § : FFORDED DRILLING FLUII VELOPMENT OR PRODUC RVICES, INC.'S ACCEPTANC ND WARRANTS THAT NOW DELIVERED BY TRA Porter loaded the material r	VERY ACT OF 1976, AS 361.001 et seq., AND F DS, PRODUCED WATER TION OF CRUDE OIL E OF THE MATERIALS S ONLY THE MATE ANSPORTER TO SUND epresented by this Tran ibed shipper. This will o	AMENDED FROM TIME REGULATIONS RELATED RS, AND OTHER WASTE OR NATURAL GAS OR SHIPPED WITH THIS JOB RIAL DELIVERED BY DANCE SERVICES, INC.'S
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P.O. Box 1737 Eunice, N (575) 394	New Mexico 88231 TICKET No. 7 3 4 1 3
EASE OPERATOR/SHIPPER/COMPANY:	ETC
EASE NAME: Tal	#3 Field Serubbers
RANSPORTER COMPANY: Mey	TUMAN Con TIME 8:19
DATE: 10-17-17 VEHICLE NO:	GENERATOR COMPANY MAN'S NAME: POSe
HARGETO: ETC	RIG NAME AND NUMBER
	TYPE OF MATERIAL
[ ] Production Water	
[] Tank Bottoms	Vi Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RC or AP! #	i pa C-133#
	<u> </u>
AS A CONDITION TO SUNDANCE S TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOUR TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPTI ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE FACILITY FOR DISPOSAL. <b>THIS WILL CERTIFY</b> that the above Tr above described location, and that it w materials were added to this load, and t	SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWI ICE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM NM HEALTH AND SAF, CODE § 361.001 et seq., AND REGULATIONS REL ON AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER W N, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GA CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THI S AND WARRANTS THAT ONLY THE MATERIAL DELIVERED R IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, mansporter loaded the material represented by this Transporter Statement of as tendered by the above described shipper. This will certify that no addit that the material was delivered without incident.
AS A CONDITION TO SUNDANCE S TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOUR TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPTI ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Tr above described location, and that it w	SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWI ICE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS REL ON AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER W A, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GA ESERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THI S AND WARRANTS THAT ONLY THE MATERIAL DELIVERED R IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, mansporter loaded the material represented by this Transporter Statement of as tendered by the above described shipper. This will certify that no addit that the material was delivered without incident.
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P.O. Box 1737 Eunice, New A (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	Tr
LEASE NAME: JA # 3	Falt A
TRANSPORTER COMPANY: MOVYIA	Man Scrubbers
DATE: //-/7-// VEHICLE NO:	GENERATOR COMPANY TIMES. PAMPM
CHARGE TO: ETC	MAN'S NAME: COSE Start
	RIG NAME AND NUMBER
Г	TYPE OF MATERIAL
[ ] Production Water	
[ ] Tank Bottoms	() Contamin to the m
[] Solids	I ] BS&W Content:     I ] Jet Out
Description:	
RRC or API #	
VOLUMÉ OF MATERIAL [] BBLS.	C-133#
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THIS WILL CERTIEVAL AND A	loaded the material represented by this Transport
DRIVER: JOSE Pirez	
	ahave
White - Sundance Canary	y - Sundance Acct #1 Pink - Transporter
Reorder from: Vertigo Creative Servic	ces LLC • www.VertigoCreative.com • Form#SDI-004

<u>'  '</u>	P.O. Box 1737 Eunice, New M (575) 394-2511		TICKET No. 434132
EASE OPERATO	R/SHIPPER/COMPANY: 7	TC	
EASE NAME:	Ja/ #3	Field Sc.	vubbers,
RANSPORTER C		man con	TIMES.'2/ AMIPA
ATE: 10-17			DR COMPANY MAN'S NAME: ROSL STACK
HARGE TO:	ETC	RIG N AND I	AME NUMBER
		TYPE OF MATERIAL	
	[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
	[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out
	[] Solids	[ ] BS&W Content:	[ ] Call Out
Descript	tion:		
RC or API #			C-133#
OLUMÉ OF MA	TERIAL []BBLS.	: YARD	$\mathcal{O}$ : []
			MATERIALS SHIPPED WITH THIS JOB
TICKET, OPE MATERIAL E TO TIME, 40 THERETO, B ASSOCIATEL GEOTHERM. ALSO AS A TICKET. TR OPERATOR/ FACILITY FO <b>THIS WILL</b> above descr. materials with DRIVER:(5)	ERATOR/SHIPPER REPRESENTS XEMPT FROM THE RESOURCE, C U.S.C. § 6901, et seq., THE NM Y VIRTUE OF THE EXEMPTION / D WITH THE EXPLORATION, DE AL ENERGY. CONDITION TO SUNDANCE SE XANSPORTER REPRESENTS / SHIPPER TO TRANSPORTER IS DR DISPOSAL. <b>CERTIFY</b> that the above Transp ibed location, and that it was te ere added to this load, and that to $Tacb b < V \in V$	AND WARRANTS THAT THE WAST CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROI EVELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT	E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR E MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S ed by this Transporter Statement at the per. This will certify that no additional
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SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	TICKET No. 434150
LEASE OPERATOR/SHIPPER/COMPANY: ETC	
LEASE NAME: Jal #3 Field S	C VILDADEYS
TRANSPORTER COMPANY: N/PVYUMAN CON	TIME 43 AMPM
DATE:////////////////////////////////////	GENERATOR COMPANY KUSE Stade
CHARGETO: KTC	RIG NAME AND NUMBER
TYPE OF MATERIA	AL
[ ] Production Water [ ] Drilling Fluids	[] Rinsate
[] Tank Bottoms	d Soil [] Jet Out
[] Solids	it: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL	RD_/
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT T MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE 9 THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLU ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODU GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANE TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TR FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material is above described location, and that it was tendered by the above described location, and that the material was delivered to this load, and that the material was delivered to DRIVER:	THE WASTE MATERIAL SHIPPED HEREWITH IS OVERY ACT OF 1976, AS AMENDED FROM TIME 361.001 et seq., AND REGULATIONS RELATED NDS, PRODUCED WATERS, AND OTHER WASTE CTION OF CRUDE OIL OR NATURAL GAS OR CE OF THE MATERIALS SHIPPED WITH THIS JOB ONLY THE MATERIAL DELIVERED BY ANSPORTER TO SUNDANCE SERVICES, INC'S represented by this Transporter Statement at the ribed shipper. This will certify that no additional without incident.
White - Sundance Canary - Sundance Acct	• • -
Reorder from: Vertigo Creative Services LLC 🔸 www.Vertigo	

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	TICKET No. 434156
LEASE OPERATOR/SHIPPER/COMPANY: ETC	
LEASE NAME: Jal # 3 Field	crubbers
TRANSPORTER COMPANY: MENGUANAN CON	TIME/D. D. TAMPM
DATE: // /// victure avia	HERATOR COMPANY MAN'S NAME ROSE SID
	RIG NAME AND NUMBER
TYPE OF MATERIAL	
[ ] Production Water [ ] Drilling Fluids	[] Rinsate
[] Tank Bottoms Contaminated Soil	[ ] Jet Out
[] Solids	[ ] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS:	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF TH TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WA MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.00 THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PF ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF T TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONL OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represen- above described location, and that it was tendered by the above described sh materials were added to this load, and that the material was delivered without DRIVER: TACODS	ISTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME D1 et seq., AND REGULATIONS RELATED RODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR HE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY RTER TO SUNDANCE SERVICES, INC.'S

P.O. Box 1737 Eunic	ERVICES, Inc. Rev Mexico 88231 194-2511	TICKET No. 434166
SE OPERATOR/SHIPPER/COMPANY:	ET(	
SE NAME: TOU -	#3 Filed	Scrubber
INSPORTER COMPANY: MOV	ruman lon	TIME // . UT KM/P
TE: 10-17-17 VEHICLE NO	O: J L/J GENER	ATOR COMPANY MAN'S NAME: COSC SCAC
ARGETO: TTC		NAME D NUMBER
$\sim$		
	TYPE OF MATERIAL	
[ ] Production Wa		[] Rinsate
[ ] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	)/ [] BS&W Content:	[ ] Call Out
Description:	10	
C or API #		C-133#
DUME OF MATERIAL [] BBLS.	: YARD/C	): []
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	P.O. Box 1737 Eunice, New Me (575) 394-2511		TICKET No. 434175
LEASE OPERATOR/SHI	PPER/COMPANY: E	70	
LEASE NAME:	VI #	3 Field	Schlippens
TRANSPORTER COMP	ANY: Mevy	UMAN Co	21 TIME// 3-3 AM)
DATE://-//-/			OR COMPANY MAN'S NAME: ROSP STOR
CHARGE TO: 7	= + (	RIG N	AME NUMBER
	7		
ſ	Production Water	[] Drilling Fluids	[ ] Rinsate
-	] Tank Bottoms	[] Contaminated Soil	[ ] Jet Out
-	] Solids	1 1 BS&W Content:	[] Call Out
	OIN	r / bout content,	
Description:	10		C-133#
			- 123#
			MATERIALS SHIPPED WITH THIS JOB
AS A CONDIT TICKET, OPERATO MATERIAL EXEMP TO TIME, 40 U.S.C THERETO, BY VIR ASSOCIATED WIT GEOTHERMAL EN ALSO AS A CON TICKET. TRANSP OPERATOR/SHIPP FACILITY FOR DIS THIS WILL CER	ION TO SUNDANCE SERVICE OR/SHIPPER REPRESENTS AI OT FROM THE RESOURCE, CO . § 6901, et seq., THE NM HE FUE OF THE EXEMPTION AF TH THE EXPLORATION, DEVI IERGY. DITION TO SUNDANCE SERV ORTER REPRESENTS AN ORTER REPRESENTS AN ORTER REPRESENTS AN ORTER REPRESENTS AN ORTER REPRESENTS AN ORTER REPRESENTS AN ORTER REPRESENTS AN	ES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT THE WAST DISERVATION AND RECOVERY AC EALTH AND SAF. CODE § 361.001 FORDED DRILLING FLUIDS, PROD ELOPMENT OR PRODUCTION OF VICES, INC.'S ACCEPTANCE OF THE ND WARRANTS THAT ONLY IOW DELIVERED BY TRANSPORT INTER I DAIL OF THE TRANSPORT	MATERIALS SHIPPED WITH THIS JOB E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY THE MATERIAL DELIVERED BY THE TO SUNDANCE SERVICES, INC.'S
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P.O. Box 1737 Eunice, New Mexico (575) 394-2511	<b>ES, Inc.</b>	TICKET No. 434179	
LEASE OPERATOR/SHIPPER/COMPANY: ET LEASE NAME: Jal #3 FT TRANSPORTER COMPANY: MENTY DATE:///7-17 VEHICLE NO: CHARGE TO: ETC	INUN CON GENERA	TIME // 5/ CANADA TOR COMPANY MAN'S NAME: ROSE SCIENCE NUMBER	
TY	PE OF MATERIAL		
[ ] Production Water [ ] Tank Bottoms [ ] Solids	<ul> <li>[ ] Drilling Fluids</li> <li>[ ] Contaminated Soil</li> <li>[ ] BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
Description:		C-133#	
RRC or API #         VOLUME OF MATERIAL       [] BBLS.	_: YARD_/	0: []	
AS A CONDITION TO SUNDANCE SERVICES TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE/ THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERV TICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpor above described location, and that it was tend materials were added to this load, and that the	ID WARKANTS THAT THE WE SERVATION AND RECOVERY / ALTH AND SAF. CODE § 361.00 ORDED DRILLING FLUIDS, PR LOPMENT OR PRODUCTION PICES, INC.'S ACCEPTANCE OF T D WARRANTS THAT ONL OW DELIVERED BY TRANSPO Preer loaded the material represed there above described s	ACT OF 1976, AS AMENDED FROM TIME OT et seq., AND REGULATIONS RELATED ODUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR THE MATERIALS SHIPPED WITH THIS JOB Y THE MATERIAL DELIVERED BY ORTER TO SUNDANCE SERVICES, INC.'S Ented by this Transporter Statement at the hipper. This will certify that no additional	
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trince beneficial	Canary - Sundance Acct #1	Pink - Transporter	
Reorder from: Vertigo Creativ	ve Services LLC • www.VertigoCreati		

LEASE OPERATOR/SHIPPER/COMPANY:       ETC         LEASE NAME:       SA       ##       SFIELS       TIME/S.J.SAMP         DATE:       DATE:       DATE:       TIME/S.J.SAMP       TIME/S.J.SAMP         DATE:       DATE: <t< th=""><th>P.O. Box 1737 Eunice, New Mexi (575) 394-2511</th><th></th><th>TICKET N₀. 434186</th></t<>	P.O. Box 1737 Eunice, New Mexi (575) 394-2511		TICKET N₀. 434186
TRANSPORTER COMPANY:       TIME/2::CSAM(PI         DATE:       <	LEASE OPERATOR/SHIPPER/COMPANY: 7	C	
TRANSPORTER COMPANY:       Implicit for the second se	LEASE NAME: Jal # 3	Field Scr	ubbers.
Image: Additional and the state of the	TRANSPORTER COMPANY: // RYVUN		A
INVECTORY         TYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out	DATE: D. M. WEHICLENO: J. 4		
[] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Jet Out	CHARGE TO: ETC		
[] Tank Bottoms       Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Jet Out	Т	PE OF MATERIAL	
[] Tank Bottoms       [] Jet Out         [] Solids       [] Jet Out	[ ] Production Water	[ ] Drilling Fluids	[] Rinsate
	[ ] Tank Bottoms		
RRC or API #       C-133#         VOLUME OF MATERIAL []BBLS	[] Solids	[ ] BS&W Content:	[ ] Call Out
VOLUME OF MATERIAL       [] BBLS	Description:		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL S 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. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered 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: 	RRC or API #		C-133#
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. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered 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: Laude Mech ISIGNATURE	VOLUME OF MATERIAL [] BBLS	: NIYARD /	) : []
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#5DI-004	MATERIAL EXEMPT FROM THE RESOURCE, CONSTOTIME, 40 U.S.C. § 6901, et seq., THE NM HEAD THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVEL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NON FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporte above described location, and that it was tender materials were added to this load, and that the m DRIVER: (SIGMATURE) FACILITY REPRESENTATIVE: (SIGMATURE) White - Sundance Can	SERVATION AND RECOVERY AC LTH AND SAF. CODE § 361.001 e DRDED DRILLING FLUIDS, PROD OPMENT OR PRODUCTION OF ES, INC'S ACCEPTANCE OF THE WARRANTS THAT ONLY W DELIVERED BY TRANSPORT I loaded the material represented ed by the above described shipp haterial was delivered without ind MULLAR	FOF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC.'S d by this Transporter Statement at the ter. This will certify that no additional cident.

TICKET No. 434172			
SUNDANCE SERVICES, Inc. TICKET No. 434172 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511			
Bisjon totages			
ASE OPERATOR/SHIPPER/COMPANY: ETC SVILDIER TIME J. OC ANOPM	4		
ACE NAME: MILLING ANALL COLLENNERRY DOCK MILLION			
RANSPORTER COMMENTER VEHICLE NO:			
TTA			
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<b>THIS WILL CERTIFY</b> that the above Transporter located by the above described shipper. The above described location, and that it was tendered by the above described without incident. materials were added to this load, and that the material was delivered without incident.			
materials were duted to that			
DRIVER: Jose Forez			
Disk Transporter			
FACILITY REPRESENTION (SIGNATURE)         (SIGNATURE)       Canary - Sundance Acct #1       Pink - Transporter         White - Sundance       Canary - Sundance Acct #1       Pink - Transporter			
White - Sundance Canary - Sundance Accessor Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004			
P.O. Box 1737	<b>C SERVICES</b> , ] 7 Eunice, New Mexico 88231 (575) 394-2511	Inc. TICKET No.	. 434193
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LEASE OPERATOR/SHIPPER/COMF	PANY: F.T.C.		
LEASE NAME: Jal	. 3 F	ield Scrub	phers -
TRANSPORTER COMPANY:	Nerryman	Con	TIME / 19 AMPM
	CLE NO: 50	GENERATOR COMPANY MAN'S NAME:	ose sade
CHARGE TO: ETC	2	RIG NAME AND NUMBER	
	TYPE OF M	ATERIAL	***************************************
[ ] Productio	on Water [] Drillir	ng Fluids [] Rin	sate
[ ] Tank Bott	. /	aminated Soil [] Jet	
[] Solids	I BS&W	Content: [] Cal	Out
Description:	010		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBL	_S:	YARD / () :	[ ]
TO TIME, 40 U.S.C. § 6901, et s THERETO, BY VIRTUE OF THE I ASSOCIATED WITH THE EXPLI- GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SU TICKET. TRANSPORTER REF OPERATOR/SHIPPER TO TRAN FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above described location, and materials were added to this low DRIVER:	eq., THE NM HEALTH AND SAI EXEMPTION AFFORDED DRILL ORATION, DEVELOPMENT OR UNDANCE SERVICES, INC.'S AC PRESENTS AND WARRANT ISPORTER IS NOW DELIVERE above Transporter loaded the r that it was tendered by the abo	AND RECOVERY ACT OF 1976, AS CODE § 361.001 et seq., AND RI ING FLUIDS, PRODUCED WATER PRODUCTION OF CRUDE OIL O CEPTANCE OF THE MATERIALS SI S THAT ONLY THE MATER D BY TRANSPORTER TO SUNDA material represented by this Trans powe described shipper. This will ce lelivered without incident. S S MAC	EGULATIONS RELATED S, AND OTHER WASTE OR NATURAL GAS OR HIPPED WITH THIS JOB IAL DELIVERED BY INCE SERVICES, INC:S
White - Sundan		nce Acct #1 Pink - Tran ww.VertigoCreative.com · Form#SDI-00	•

 $\sim s_{\rm eff} dd^3/dd^2/dd^2$  is a constant. The constant of constant for the definition of the  $s_{\rm eff} =$ 

P.O. Box 1737 Eunice, New Mer (575) 394-2511	ICES, Inc. xico 88231	TICKET No. 434220	
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: DAL #3 TRANSPORTER COMPANY: MPYRJ M DATE: D-17-17 VEHICLE NO: 4(	MAN LONG. GENERATC	CIUBBERJ TIMEZ, SAMPM DR COMPANY ANYS NAME: COSE SLAD	
CHARGE TO: [] Production Water [] Tank Bottoms [] Solids	[] AND F         TYPE OF MATERIAL         [] Drilling Fluids         [] Contaminated Soil         [] BS&W Content:	[ ] Rinsate [ ] Jet Out [ ] Call Out	
RRC or API # VOLUME OF MATERIAL [] BBLS	: 1 YARD_	C-133#	
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM I THERETO, BY VIRTUE OF THE EXEMPTION / ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Trans, above described location, and that it was to materials were added to this load, and that DRIVER:	AND WARKANTS THAT THE WOS CONSERVATION AND RECOVERY AG HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PRO EVELOPMENT OR PRODUCTION C ERVICES, INC.'S ACCEPTANCE OF TH AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPOF porter loaded the material represen	Pink - Transporter	

P.O. Box 1737 Eunice, New Mexico 8 (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: F.T.	
LEASE NAME: DA #3 F	Field Scrubbers
TRANSPORTER COMPANY: MRM1MA	n Con TIME J. S.C. AMPM)
	GENERATOR COMPANY COSL SOM
CHARGE TO: ETC	RIG NAME AND NUMBER
ТҮРЕ	OF MATERIAL
[ ] Production Water [	Drilling Fluids [] Rinsate
[ ] Tank Bottoms	Contaminated Soil [ ] Jet Out
[] Solids	] BS&W Content: [ ] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS:	[X] YARD []
TICKET, OPERATOR/SHIPPER REPRESENTS AND W MATERIAL EXEMPT FROM THE RESOURCE, CONSER TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH THERETO, BY VIRTUE OF THE EXEMPTION AFFORD ASSOCIATED WITH THE EXPLORATION, DEVELOPM GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, TICKET. TRANSPORTER REPRESENTS AND W OPERATOR/SHIPPER TO TRANSPORTER IS NOW D FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter log	C.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS VATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE MENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB VARRANTS THAT ONLY THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTION OF CRUDE OIL OR NATURAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC'S ACCEPTANCE OF THE MATERIAL DELIVERED BY DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S ACCEPTANCE AND ADDR'S AD
White - Sundance Canary	- Sundance Acct #1 Pink - Transporter
Reorder from: Vertigo Creative Service	s LLC • www.VertigoCreative.com • Form#SDI-004

P.O. Box 1737 Eunice, New Ma (575) 394-2511	ICES, Inc.	TICKET No. 4	34225
LEASE OPERATOR/SHIPPER/COMPANY: E LEASE NAME: DAL # 3 TRANSPORTER COMPANY: MEYYY DATE: U-D-D VEHICLE NO: CHARGE TO: ETC	TC Field Sc Man ( S	CYUDDELS ON TIM GENERATOR COMPANY MAN'S NAME: RUS RIG NAME AND NUMBER	E3; MAMPM
[] Production Water [] Tank Bottoms [] Solids	TYPE OF MATERIAL [ ] Drilling Fluids [ ] Contaminated S [ ] BS&W Content:	[] Rinsate Soil [] Jet Out	
Description:     Image: Constraint of the second seco	: X1 YAF	C-133#	[]
AS A CONDITION TO SUNDANCE SERV. TICKET, OPERATOR/SHIPPER REPRESENTS: MATERIAL EXEMPT FROM THE RESOURCE, TO TIME, 40 U.S.C. § 6901, et seq., THE NM THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, D GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE S TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER I FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Tran- above described location, and that it was materials were added to this load, and that DRIVER:	Canary - Sundance Ac	DVERY ACT OF 1976, AS AN 361.001 et seq., AND REG IDS, PRODUCED WATERS, CTION OF CRUDE OIL OF CE OF THE MATERIALS SHI F ONLY THE MATERIALS CONLY THE M	NENDED FROM TIME ULATIONS RELATED AND OTHER WASTE NATURAL GAS OR PPED WITH THIS JOB L DELIVERED BY ICE SERVICES, INC.'S Porter Statement at the offy that no additional

	ICE SERVI lox 1737 Eunice, New Mexi (575) 394-2511		TICKET No.	434240
LEASE OPERATOR/SHIPPER	COMPANY:	TC		
LEASE NAME:	Jal	#3 Fier	d Sruk	bers
TRANSPORTER COMPANY:	Merri	1 man Co	M. TIM	ES: (5 AM/PM)
DATE: //-//-//	VEHICLE NO:		MAN'S NAME: RO	se Sade
CHARGE TO: F	70		NG NAME	
	T	PE OF MATERIAL		,
[]P	roduction Water	[ ] Drilling Fluids	[ ] Rinsate	
• •	ank Bottoms	Contaminated Soil	[] Jet Out	
[] S		[] BS&W Content:	[] Call Out	
Description:	OIN			
RRC or API #	<u>+</u>		C-133#	
VOLUME OF MATERIAL	[ ] BBLS	: 1 YARD	10 :	[]
TICKET, OPERATOR/S MATERIAL EXEMPT FR TO TIME, 40 U.S.C. § 6 THERETO, BY VIRTUE ASSOCIATED WITH TI GEOTHERMAL ENERG ALSO AS A CONDITI TICKET. TRANSPORI OPERATOR/SHIPPER FACILITY FOR DISPOS THIS WILL CERTIFY above described local materials were added DRIVER: Ja 20 (SIGMATURE) FACILITY REPRESE	HIPPER REPRESENTS AN ROM THE RESOURCE, CON 5901, et seq., THE NM HEA OF THE EXEMPTION AFF HE EXPLORATION, DEVE 57. CON TO SUNDANCE SERV FOR REPRESENTS AN TO TRANSPORTER IS NO 5AL. I that the above Transpor- tion, and that it was tend to this load, and that the Pure SIGNATURE	S, INC.'S ACCEPTANCE OF TI ID WARRANTS THAT THE W. NSERVATION AND RECOVERY ALTH AND SAF. CODE § 361.0 ORDED DRILLING FLUIDS, P LOPMENT OR PRODUCTION ICES, INC.'S ACCEPTANCE OF D WARRANTS THAT ON OW DELIVERED BY TRANSP ter loaded the material repress lered by the above described a material was delivered witho	ASTE MATERIAL SHIP (ACT OF 1976, AS AME 2001 et seq., AND REGU 2000UCED WATERS, A N OF CRUDE OIL OR THE MATERIALS SHIP ILY THE MATERIAL 20RTER TO SUNDANC 20RTER TO SUNDANC 20RTER TO SUNDANC 2001 State of the state	PED HEREWITH IS ENDED FROM TIME ILATIONS RELATED ND OTHER WASTE NATURAL GAS OR PED WITH THIS JOB DELIVERED BY E SERVICES, INC:S ter Statement at the y that no additional

P.O. Box 1737 Eunice, New Mexico (575) 394-2511	<b>ES, Inc.</b>	°ICKET №. 4342	41
LEASE OPERATOR/SHIPPER/COMPANY:	IMan Con	VUPPers TIMESOT	AMACM
DATE: 10-17-17 VEHICLE NO: 240	GENERATOR MA RIG NAM	ie IE	ane
CHARGE TO: <u>FIC</u>	PE OF MATERIAL		
[ ] Production Water [ ] Tank Bottoms [ ] Solids	<ul> <li>Drilling Fluids</li> <li>Contaminated Soil</li> <li>BS&amp;W Content:</li> </ul>	[ ] Rinsate [ ] Jet Out [ ] Call Out	
RRC or API #		C-133#	
VOLUME OF MATERIAL       [] BBLS	D WARRANTS THAT THE WASTE SERVATION AND RECOVERY ACT LTH AND SAF. CODE § 361.001 e DRDED DRILLING FLUIDS, PROD OPMENT OR PRODUCTION OF CES, INC.'S ACCEPTANCE OF THE D WARRANTS THAT ONLY W DELIVERED BY TRANSPORT Product the material represente the section of the	MATERIAL SHIFTED FILMEN OF 1976, AS AMENDED FROM t seq., AND REGULATIONS RE UCED WATERS, AND OTHER CRUDE OIL OR NATURAL G MATERIALS SHIPPED WITH TH THE MATERIAL DELIVERE ER TO SUNDANCE SERVICES d by this Transporter Statementer. This will certify that no ad	M TIME LATED WASTE AS OR HIS JOB D BY S, INC.'S
	nary - Sundance Acct #1	Pink - Transporter	
Reorder from: Vertigo Creative	Services LLC • www.VertigoCreative.co	m • Form#SDI-004	

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P.O. Box 1737 Eunice, New Mex (575) 394-2511	<b>CES, Inc.</b> TICKET No. 434242
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: Ja # 3 TRANSPORTER COMPANY: Mey DATE - 7 VEHICLE NO: S	Field SCULDERS Field SCULDERS TIMES: GAMPM GENERATOR COMPANY MAN'S NAME, COSE SLAD
CHARGE TO: ETC	RIG NAME AND NUMBER
<u>, 0</u>	TYPE OF MATERIAL
[ ] Production Water [ ] Tank Bottoms [ ] Solids	[] Drilling Fluids       [] Rinsate         [] Contaminated Soil       [] Jet Out         [] BS&W Content:       [] Call Out
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS	: X YARD (): []
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEF TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	CES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE VELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S Porter loaded the material represented by this Transporter Statement at the
THIS WILL CERTIFY that the above transp above described location, and that it was ten materials were added to this load, and that the DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White - Sundance	ndered by the above described shipper. This will certify that he decline the
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(575) 394-2511	Aexico 88231	TICKET No. 43452	20
LEASE OPERATOR/SHIPPER/COMPANY:	0		
LEASE NAME: 19173 Field	Scrubbers		
TRANSPORTER COMPANY: MOULT M		TIME 2:37	AM/F
DATE: / ) . (4. / ) VEHICLE 10: 01	GENERATO	DR COMPANY MAN'S NAME: Del SIG	2
CHARGE TO: ETC	RIG N/	AME IUMBER	
[ ] Production Water	[] Drilling Fluids		
[] Tank Bottoms		[ ] Rinsate [ ] Jet Out	
[] Solids	BS&W Content:	[] Call Out	
Description:	010		
RRC or API #	le	C-133#	
VOLUME OF MATERIAL [] BBLS	: YARD ()	: []	
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE. CC	AND WARRANTS THAT THE WASTE	MATERIAL SHIPPED HEREWITH	115
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION AI ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL.	AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e FFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF IVICES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY 1	MATERIAL SHIPPED HEREWITH OF 1976, AS AMENDED FROM TH t seq., AND REGULATIONS RELAT UCED WATERS, AND OTHER WAS CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS JU THE MATERIAL DELIVERED	itis Me ED Ste OR OB
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION AI ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS M	AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e FFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF IVICES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTE Porter loaded the material represented dered by the above described shipped	MATERIAL SHIPPED HEREWITH OF 1976, AS AMENDED FROM TH t seq., AND REGULATIONS RELAT UCED WATERS, AND OTHER WAS CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS JU THE MATERIAL DELIVERED R TO SUNDANCE SERVICES, INC by this Transporter Statement at t et. This will certify that no addition	inis ME ED STE OR OR BY C'S
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION AI ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo above described location, and that it was ten	AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e FFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF IVICES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTE Porter loaded the material represented dered by the above described shipped	MATERIAL SHIPPED HEREWITH OF 1976, AS AMENDED FROM TH t seq., AND REGULATIONS RELAT UCED WATERS, AND OTHER WAS CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS JU THE MATERIAL DELIVERED R TO SUNDANCE SERVICES, INC by this Transporter Statement at t et. This will certify that no addition	inis ME ED STE OR OR BY C'S
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION AI ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS AI OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo above described location, and that it was ten materials were added to this load, and that th DRIVER: USGNATURE FACILITY REPRESENTATIVE:	AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e FFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF IVICES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY T NOW DELIVERED BY TRANSPORTE Porter loaded the material represented dered by the above described shipped	MATERIAL SHIPPED HEREWITH OF 1976, AS AMENDED FROM TH t seq., AND REGULATIONS RELAT UCED WATERS, AND OTHER WAS CRUDE OIL OR NATURAL GAS MATERIALS SHIPPED WITH THIS JU THE MATERIAL DELIVERED R TO SUNDANCE SERVICES, INC by this Transporter Statement at t et. This will certify that no addition	inis ME ED STE OR OR BY C'S

P.O. Box 1737 Eur	SERVICES, Inc. hice, New Mexico 88231 394-2511 TICKET No.	34527
EASE OPERATOR/SHIPPER/COMPANY	r:FTC	
EASE NAME: Un 1 H2 L	Seta Scrubbis	
Jan - T	mman (not. TIME	2:3/AM/PM
DATE: 11.10.17 VEHICLE		Slade
	RIG NAME AND NUMBER	
HARGE TO: ETC		
	TYPE OF MATERIAL	
[ ] Production V	Nater [ ] Drilling Fluids [ ] Rinsate	
[ ] Tank Bottom		
[ ] Solids	[ <sup>1</sup> ] BS&W Content: [] Call Out	
Description:	010	
RC or API #	(19 C-133#	
	NCE SERVICES INC'S ACCEPTANCE OF THE MATERIALS SHIPPED	WITH THIS JOB
AS A CONDITION TO SUNDA TICKET, OPERATOR/SHIPPER REI MATERIAL EXEMPT FROM THE RE TO TIME, 40 U.S.C. § 6901, et seq THERETO, BY VIRTUE OF THE EX ASSOCIATED WITH THE EXPLOP GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUN TICKET. TRANSPORTER REPR OPERATOR/SHIPPER TO TRANSI FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the al above described location, and th materials were added to this load DRIVER:		WITH THIS JOB D HEREWITH IS DED FROM TIME TIONS RELATED O THER WASTE TURAL GAS OR DELIVERED BY DELIVERED BY DELIVERED BY DERVICES, INC.'S
AS A CONDITION TO SUNDA TICKET, OPERATOR/SHIPPER REI MATERIAL EXEMPT FROM THE RE TO TIME, 40 U.S.C. § 6901, et seq THERETO, BY VIRTUE OF THE EX ASSOCIATED WITH THE EXPLOP GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUN TICKET. TRANSPORTER REPR OPERATOR/SHIPPER TO TRANSI FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the au above described location, and th materials were added to this load DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	NCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED A PRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED ESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMEND A., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULAT EMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND RATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NAT NDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED RESENTS AND WARRANTS THAT ONLY THE MATERIAL DE PORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE S bove Transporter loaded the material represented by this Transporter 1 at it was tendered by the above described shipper. This will certify th d, and that the material was delivered without incident.	WITH THIS JOB D HEREWITH IS DED FROM TIME TIONS RELATED OTHER WASTE TURAL GAS OR DELIVERED BY DELIVERED BY DERVICES, INC.'S Statement at the at no additional
AS A CONDITION TO SUNDA TICKET, OPERATOR/SHIPPER REI MATERIAL EXEMPT FROM THE RE TO TIME, 40 U.S.C. § 6901, et seq THERETO, BY VIRTUE OF THE EX ASSOCIATED WITH THE EXPLOP GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUN TICKET. TRANSPORTER REPR OPERATOR/SHIPPER TO TRANSI FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the ai above described location, and th materials were added to this load DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	NCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED A PRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED ESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMEND A., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULAT EMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND RATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NAT NDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED RESENTS AND WARRANTS THAT ONLY THE MATERIAL DE PORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE S bove Transporter loaded the material represented by this Transporter 1 at it was tendered by the above described shipper. This will certify th d, and that the material was delivered without incident.	WITH THIS JOB D HEREWITH IS DED FROM TIME TIONS RELATED OTHER WASTE TURAL GAS OR DELIVERED BY DELIVERED BY DERVICES, INC.'S Statement at the at no additional

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P.O. Box 1737 I	SERVICES, I Eunice, New Mexico 88231 75) 394-2511	i <b>nc.</b> Ti	CKET No.	434478
LEASE OPERATOR/SHIPPER/COMPA	NY: ETC			
LEASE NAME: Jal #3	fuldsent	el 13		$\sim$
TRANSPORTER COMPANY:	ruman		TIME	8:22 AMOM
DATE: 10.19.17 VEHICL	ENO: 4	GENERATOR O MAN	OMPANY SNAME: ROAL	Stade
CHARGETO: ETC		RIG NAME AND NUM		
	TYPE OF M	ATERIAL		
[] Production	n Water [] Drillir	ng Fluids	[] Rinsate	
[ ] Tank Botto	oms X Conta	aminated Soil	[] Jet Out	
[] Solids	[ ] BS&W	Content:	[] Call Out	
Description:	OIN			
RRC or API #		8	C-133#	
VOLUME OF MATERIAL [] BBLS	<u></u>	X YARD 10		[]
AS A CONDITION TO SUND TICKET, OPERATOR/SHIPPER R MATERIAL EXEMPT FROM THE F TO TIME, 40 U.S.C. § 6901, et se THERETO, BY VIRTUE OF THE E ASSOCIATED WITH THE EXPLO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SU TICKET. TRANSPORTER REP OPERATOR/SHIPPER TO TRANS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the a above described location, and t materials were added to this load DRIVER:	EPRESENTS AND WARRANT RESOURCE, CONSERVATION A rq., THE NM HEALTH AND SA XEMPTION AFFORDED DRILL IRATION, DEVELOPMENT OF INDANCE SERVICES, INC.'S AC RESENTS AND WARRANT SPORTER IS NOW DELIVERE Tabove Transporter loaded the hat it was tendered by the ab id, and that the material was Mass H	S THAT THE WASTE M AND RECOVERY ACT OI F. CODE § 361.001 et si LING FLUIDS, PRODUC R PRODUCTION OF CI CCEPTANCE OF THE MA TS THAT ONLY TH ED BY TRANSPORTER material represented b pove described shipper. delivered without incide	ATERIAL SHIPP F 1976, AS AMEN eq., AND REGUL ED WATERS, AN RUDE OIL OR N ATERIALS SHIPPE E MATERIAL TO SUNDANCE y this Transporte This will certify t	ED HEREWITH IS NDED FROM TIME ATIONS RELATED ID OTHER WASTE ATURAL GAS OR ED WITH THIS JOB DELIVERED BY SERVICES, INC:S r Statement at the that no additional
Reorder from	n: Vertigo Creative Services LLC • v		•	

SUI	P.O. Box 1737 Eunice, N (575) 394-	ew Mexico 88231 2511	TICKET No.	434479
ASE OPERATOR	SHIPPER/COMPANY:	TC		
	alt3			8:37 AMPM
ANSPORTERCO		nyman Const.	TIME	O CANOPPIN
ATE: /D//		28	MAN'S NAME:	Man
HARGE TO:	EtC	Ri	G NAME ND NUMBER	
		TYPE OF MATERIAL		
	[ ] Production Water		[ ] Rinsate	
	[ ] Tank Bottoms	Contaminated Soil	[ ] Jet Out	
	[] Solids	[ <sup>1</sup> ] BS&W Content:	[ ] Call Out	
Descrip	tion:	010		
IRC or API #		112	C-133#	
		SERVICES, INC'S ACCEPTANCE OF TI ENTS AND WARRANTS THAT THE W		
AS A CO TICKET, OP MATERIAL TO TIME, 44 THERETO, 1 ASSOCIATI GEOTHERM ALSO AS TICKET. T OPERATOR FACILITY F	DNDITION TO SUNDANCE PERATOR/SHIPPER REPRESE EXEMPT FROM THE RESOU DU.S.C. § 6901, et seq., THI BY VIRTUE OF THE EXEMPT ED WITH THE EXPLORATION MAL ENERGY. A CONDITION TO SUNDAN RANSPORTER REPRESEN CASHIPPER TO TRANSPORT FOR DISPOSAL.	SERVICES, INC.'S ACCEPTANCE OF TI ENTS AND WARRANTS THAT THE W. IRCE, CONSERVATION AND RECOVERY E NM HEALTH AND SAF. CODE § 361.0 TION AFFORDED DRILLING FLUIDS, P DN, DEVELOPMENT OR PRODUCTION NCE SERVICES, INC.'S ACCEPTANCE OF NTS AND WARRANTS THAT ON TER IS NOW DELIVERED BY TRANSP	ACT OF 1976, AS AME 2001 et seq., AND REGU 2000 ED WATERS, A 2000 CED WATERS, A 2000 CED WATERS, A 2000 CED WATERS, A 2000 CED WATERIAL 2000 CED WATERS, A 2000 CED WATERIAL 2000 CED WATERS, A 2000 CED WAT	ED WITH THIS JOB DED HEREWITH IS ENDED FROM TIME LATIONS RELATED ND OTHER WASTE NATURAL GAS OR DED WITH THIS JOB DELIVERED BY E SERVICES, INC.'S
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SUNI	P.O. Box 1737 Eunice, New N (575) 394-2511	Aexico 88231	TICKET No. +3	4430
LEASE OPERATOR/SH	IPPER/COMPANY:	Ľ		
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TRANSPORTERCOMF	ANY: Memman	n. Count.	TIME	18 (AM/DA
DATE://) ·/9./7	VEHICLE NO:	GENERAT	DR COMPANY MAN'S NAME: ROLE S	late
CHARGETO: ET	-C	RIG N AND	AME NUMBER	
		TYPE OF MATERIAL	88 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1	[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate	
	[ ] Tank Bottoms	Leontaminated Soil	[ ] Jet Out	
	[] Solids	[ ] BS&W Content:	[ ] Call Out	
Description:				
RRC or API #		[]	e <sup>C-133#</sup>	
	AL []BBLS.	: V YARD_/	} : []	
TO TIME, 40 U.S. THERETO, BY VIF ASSOCIATED WI GEOTHERMAL E ALSO AS A CO TICKET. TRANS OPERATOR/SHIP FACILITY FOR DI <b>THIS WILL CER</b> above described	C. § 6901, et seq., THE NM I RTUE OF THE EXEMPTION A TH THE EXPLORATION, DE NERGY. NDITION TO SUNDANCE SE PORTER REPRESENTS A PER TO TRANSPORTER IS SPOSAL. RTIFY that the above Transp location, and that it was ten dded to this load, and that to MEE	CONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROI EVELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT Porter loaded the material represente Indered by the above described ship the material was delivered without in N.	et seq., AND REGULATION DUCED WATERS, AND OT CRUDE OIL OR NATUR MATERIALS SHIPPED WIT THE MATERIAL DELIN ER TO SUNDANCE SERV ed by this Transporter State per. This will certify that no	IS RELATED HER WASTE AL GAS OR TH THIS JOB VERED BY ICES, INC:S
w	hite - Sundance	Canary - Sundance Acct #1	Pink - Transporter	

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EASE OPERATO		TC		
EASE NAME:	al # 3 Fick	A Souther	0	~
RANSPORT	OMPANY: MUM	nen Caust.	TIME / D. D /	M/PN
ATE: 10.19	VEHICLE NO.	GENERA	TOR COMPANY MAN'S NAME:	11
HARGE TO:	GTC		NAME 132.940.57	Ţ
		TYPE OF MATERIAL		
	[ ] Production Water	[ ] Drilling Fluids	[] Rinsate	
	[ ] Tank Bottoms	Contaminated Soil	[] Jet Out	
	[] Solids	[] BS&W Content:	[ ] Call Out	
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ticket, ope	NDITION TO SUNDANCE SERV RATOR/SHIPPER REPRESENTS		E MATERIAL SHIPPED HEREWITH	้าร
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P.O. Box 1737 Eunice, New M (575) 394-2511	Mexico 88231	<b>TICKET No.</b> +34494
LEASE OPERATOR/SHIPPER/COMPANY:	- (	
LEASE NAME: Jal #3 Fink	d Sempler	
TRANSPORTERCOMPANY: MDALL	nan comp	TIME / ): / TAM/
DATE: 19.19. VEHICLE NO:		DR COMPANY ROLE STOR
CHARGE TO: ETC	Rig N	
	TYPE OF MATERIAL	
[ ] Production Water	[ ] Drilling Fluids	[] Rinsate
[ ] Tank Bottoms	Contaminated Soil	[] Jet Out
[ ] Solids	[] BS&W Content:	[] Call Out
Description:	010	
RRC or API #	us us	C-133#
VOLUME OF MATERIAL [] BBLS	: XIYARD/O	
AS A CONDITION TO SUNDANCE SERVIC TICKET, OPERATOR/SHIPPER REPRESENTS / MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SER TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS IN FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo above described location, and that it was ten materials were added to this load, and that the DRIVER: (SIGMATURE) FACILITY REPRESENTATIVE: (SIGMATURE) White - Sundance	AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT IEALTH AND SAF. CODE § 361.001 e FFORDED DRILLING FLUIDS, PROD VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORTE Porter loaded the material represented dered by the above described shipped	MATERIAL SHIPPED HEREWITH IS OF 1976, AS AMENDED FROM TIME t seq., AND REGULATIONS RELATED UCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY R TO SUNDANCE SERVICES, INC.'S

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P.O. Box 1737 Eunice, New (575) 394-251	Mexico 8623
EASE OPERATOR/SHIPPER/COMPANY: E EASE NAME: ALTS FREID RANSPORTERCOMPANY: MUYMM DATE: D. 19.17 VEHICLE NO: S CHARGE TO: GTC	TC SCHUBER An CANST. GENERATOR COMPANY MAN'S NAME AND NUMBER / B2.94D.5147
[ ] Production Water [ ] Tank Bottoms [ ] Solids	TYPE OF MATERIAL         [] Drilling Fluids       [] Rinsate         Contaminated Soil       [] Jet Out         BS&W Content:       [] Call Out
Description: RRC or API # VOLUME OF MATERIAL [] BBLS	0/D <u> </u>
AS A CONDITION TO SUNDANCE SE TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURC TO TIME, 40 U.S.C. § 6901, et seq., THE M THERETO, BY VIRTUE OF THE EXEMPTIC ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANC TICKET. TRANSPORTER REPRESENT OPERATOR/SHIPPER TO TRANSPORTE FACILITY FOR DISPOSAL.	ERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ITS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME INM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ON AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE I, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR IS SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB S AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY R IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S INC.'S ACCEPTANCE OF THE MATERIAL DELIVERED AND THE WASTE IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above it above described location, and that it w materials were added to this load, and DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	as tendered of the as delivered without incident.
White - Sundance Reorder from: Vertig	Canary - Sundance Acct #1 Pink - Transporter go Creative Services LLC • www.VertigoCreative.com • Form#SDI-004

Salado Invento - Marco - Marco

LEASE OPERATOR/SHIPPER/COMPANY:       ETC         LEASE NAME:       DL#3 Field Scubbar         TRANSPORTER COMPANY:       Mark Date:         DATE:       D. A.         VEHICLE NG:       GENERATOR COMPANY:         DATE:       D. A.         VEHICLE NG:       GENERATOR COMPANY:         MARS NAME       CHARGE TO:         CHARGE TO:       TYPE OF MATERIAL         [] Tank Bottoms       Contaminated Soil         [] Tank Bottoms       Contaminated Soil         [] Solids       I] BS&W Content:         [] Solids       I] BS&W Content:         [] Call Out         Description:       OW         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH         TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERI         MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 196, AS AMENDED FR         TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.01 et seq., AND REGULATIONS         THERETO, BY VIRTUE OF THE EXEMPTION AFFOREDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHE         ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL         GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH         TICKE	(5	SERVICES, Inc. Eunice, New Mexico 88231 575) 394-2511	TICKET No.	434548
TRANSPORTER COMPANY:       MDYMON       TIME / Y         DATE:       / D. M. / VEHICLE NO: OY       GENERATOR COMPANY:       MMTS MARE         CHARGE TO:       CTYPE OF MATERIAL       I RIG NAME         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       Y Contaminated Soil       [] Jet Out         [] Tank Bottoms       Y Contaminated Soil       [] Jet Out         Description:       OW       OW         RRC or API #       C-133#       C-133#         VOLUME OF MATERIAL       [] BBLS.       :       Y YARD       [] C         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH       TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERI         MATERIAL EXEMPTEROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR       TO TIME 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS         THERETO, BY URTUE OF THE EXEMPTION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL       GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH         TCKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH         TCKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH         TCKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL D	OR/SHIPPER/COMPA	NY: FTC		
TRANSPORTER COMPANY:       MIG MAME       TIME / Y         DATE:       D. G. // VEHICLE NO: OM       GENERATOR COMPARY       COLOR         CHARGE TO:       CTYPE OF MATERIAL       I CAMME       I CAMME         [] Tank Bottoms       I Contaminated Soil       I let Out         [] Tank Bottoms       I Contaminated Soil       I let Out         [] Solids       I' BS&W Content:       I call Out         Description:       OW       I' Solids       I let Out         RRC or API #       C-133#       Contaminated Soil       I let Out         VOLUME OF MATERIAL       I BBLS.       I' MY ARD       I' call Out         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED HERIN       ShiPPED WITH       I' call Cut         TICKET, OPERATORYSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERIN       ShiPPED HERIN       MATERIAL SHIPPED HERIN         MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR       TO TIME, 40 U.S.C. \$ 6901, et seq., THE NM HEALTH AND SAF. CODE \$ 361.001 et seq., AND REGULATIONS         THERETO, BY WITH UF OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHE       ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL         GEOTHERMAL ENERGY.       ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TCKET. TRANSPORTER TO	Sal#3F	Field Scrubb	47	<u> </u>
DATE:       //O. M. VEHICLE NO: OY       GENERATOR COMPART         CHARGE TO:       CTYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       J. Contaminated Soil       [] Jet Out         [] Tank Bottoms       J. Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:       OW       C-133#         VOLUME OF MATERIAL       [] BBLS.       :       [] YARD         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH       TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HER         MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR       TO TIME, 40 U.S.C. 5 (500), et seq. THE NM HEALTH AND SAF. CODE 5 361.001 et seq. AND REGULATIONS         THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHE       ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL         GEOTHERMAL ENERGY.       ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH         TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVER         OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVER         OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELEVERED BY TRANSPORTER TO SUNDANCE SERVI	COMPANY: MU			ME-UI AMPM
Implementation         TYPE OF MATERIAL         [] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       Contaminated Soil       [] Jet Out         [] Tank Bottoms       Contaminated Soil       [] Jet Out         Description:       Obs       Obs         RRC or API #         C-133#         VOLUME OF MATERIAL       [] BBLS.         Solution:         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH         TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTER MATERIALS SHIPPED HEIR         MATERIAL [] BBLS.       :       [] YARD	VEHICL	e No: 04	GENERATOR COMPANY	21 Sline
[] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       [] Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:       0       0         RRC or API #       C-133#         VOLUME OF MATERIAL       [] BBLS.       []         AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH         TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERI         MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR         TO TIME, 40 U.S.C. \$ 6901, et seq., THE NM HEALTH AND SAF. CODE \$ 361.001 et seq., AND REGULATIONS         THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FUIDS, PRODUCED WATERS, AND OTHE         ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL         GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVER         OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES         OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES         FACILITY FOR DISPOSAL.         THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statemer above described location, and that it was tendered by the	ETE			<u> </u>
I Tank Bottoms     I Solids     I Solid     I Solids	N	TYPE OF MATERIA	AL	
[] Tank Bottoms       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:       000         RRC or API #       0100         VOLUME OF MATERIAL       [] BBLS.       :       [] YARD         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERI MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR         TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES FACULT	[] Production	Water [] Drilling Fluid	i ( ) Rinsati	e
Description:       Image: C-133#         VOLUME OF MATERIAL       Image: I	[ ] Tank Bottoi	<b>\</b>		-
RRC or API #       C-133#         VOLUME OF MATERIAL       [] BBLS	[ ] Solids	[\] BS&W Conter	it: [] Call Ou	Jt
VOLUME OF MATERIAL       [] BBLS	ption:	010		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH ' TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERI MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FR TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH' TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVEF OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICE FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statemed above described location, and that it was tendered by the above described shipper. This will certify that no au materials were added to this load, and that the material was delivered without incident. DRIVER: JSIGMATURE! FACILITY REPRESENTATIVE:			1 C-133#	
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White - Sundance       Canary - Sundance Acct #1       Pink - Transporter         Reorder from: Vertigo Creative Services LLC + www.VertigoCreative.com + Form#SDI-004	CERTIFY that the aboritised location, and that a location, and the aboritised location, and the aboriti	and that the material was delivered v	bod chinner This will south	E SERVICES, INC.'S

Methodology No.

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P.O. Box 1737 Eunice, New Mexic (575) 394-2511	<b>CES, Inc.</b> TICKET No. 434560	
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TRANSPORTER COMPANY: Merry In DATE: //) 9. // VEHICLE NO. 5	BIG NAME	
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P.O. Box 1737 Eunice, New (575) 394-2511	Mexico 88231	TICKET No. 434515
LEASE OPERATOR/SHIPPER/COMPANY:	TC	
LEASE NAME: Jal #3 field	Simbles	
TRANSPORTED COMPANY: Mennes	man Cont.	TIME ? TAMUPM
DATE: / . / . / VEHICLE NO: / L	16 GENERA	TOR COMPANY ROL STARL
CHARGE TO: ETC		NAME NUMBER
	TYPE OF MATERIAL	
[ ] Production Water	[ ] Drilling Fluids	[] Rinsate
[ ] Tank Bottoms	J Contaminated Soil	[] Jet Out
[] Solids	BS&W Content:	[] Call Out
Description:	SID	
RRC or API #	ler	C-133#
VOLUME OF MATERIAL [] BBLS	: X YARD 10	
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpo above described location, and that it was ter materials were added to this load, and that th DRIVER: (SIGMATURE) FACILITY REPRESENTATIVE: KIGMATURE) White - Sundance	AND WARRANTS THAT THE WAST ONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 IFFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE IND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT OFTER loaded the material represente ordered by the above described shint	E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY ER TO SUNDANCE SERVICES, INC.'S
	re Services LLC • www.VertigoCreative.com	

District 1 1625 N. French District III 811 S. First SL, District III 1000 Rio Brazos District IV 1220 S. St. Fran Name of Co Address: 61 Facility Nar Surface Ow Unit Letter 1	Artesia, NM 5 Road, Aztec cis Dr., Santa mpany: E 20 N. Mar ne: Jal3 Ga	88210 c, NM 87410 a Fc, NM 87505 <u>nergy Tran</u> ienfeld Stre as Plant	Rele	Energy Mir Oil C 1220 Sa ease Notific Field Services Mineral O	Nerals Conser South Inta Fe Conser South Inta Fe South Inta Fe Inta Fe South Inta Fe South Inta Fe Inta Fe Inta Fe South Inta Fe Inta Fe South Inta Fe South Inta Fe Inta Fe South Inta Fe Inta Fer Inta	and Natura vation Div St. France NM 875 and Co OPERA Contact: Ja Telephone M	is Dr. 05 Drrective A FOR hnnie Bradford No. (432) 250-5 e: Field Scrubb	ction	Initia (817) Associat	to appropri cordance wi al Report <u>302-9812 (</u> ed Tankag	ig 22 ate Dist ith 19.1	P, 2016 Tet Office in 5.29 NMAC.
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				l storage tankage.		Date and H	our of Occurrence	e: E	Date and I	Hour of Disc		
Was Immedia	te Notice G	liven?				08/03/2016		0	8/03/201	6 -04:00		
			Yes 🛛	No 🗌 Not Re	quired	N/A						
By Whom? N Was a Watero		hed?				Date and H	our: N/A lume Impacting th	he Waters	00552			
an over some til 665 to 8 fe			Yes 🗵	No		N/A	ionie mipacting t	ne watere	ouise.			
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	·····		1						
A water cours	e was not e	ffected during	; this relea	se.								
Describe Cau	se of Proble	m and Remed	lial Action	Taken.*								
dump valve w removal. Due Vacuum Truc	as not func to the volu k (15 bbls	tioning proper ime of liquids b). Area of co	ly at whic , the storag ntaminatio	uid carryover to in h time the bypass ge lanks overtopp on is being evalua	was ope ed causi	ened to transl ng a loss of c	er the liquid in th ontainment. The	e field scr	ubber int	o storage lar	iks for e	offsite
Describe Area	Affected a	ind Cleanup A	ction Tak	£n.*								
The affected a Remediation A NMOCD appression	Action Leve	els (RRALs) b	ith small a sy removin	rreas of run off to g contaminated s	the wes oil and b	t and south o back filling w	the tanks. Area v th uncontaminate	will be ren ed soil. Co	nediated t ontamina	to NMOCD ted soil will	Recom be disp	nended osed at an
regulations all public health should their o	i operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a Idition, NMO	report and acceptance dequately CD accept	is true and compl d/or file certain re e of a C-141 repoi investigate and re ance of a C-141 r	lease no rt by the mediate	tifications an NMOCD ma contaminatio	d perform correct rked as "Final Re on that pose a thre the operator of r	tive action port" does at to grou esponsibil	s for rele s not relie nd water, ity for co	ases which a eve the opera- surface wat mpliance wi	nay end itor of 1 er, hum ith any (	anger iability an health
Signature:	Churie,	Bradfor	l				OIL CONS	<u>SERVA</u>			N	
Printed Name	: Johnnie l	Bradford			A	Approved by	Environmental Sp	ecialist:	Jamt	uge		
Title: Sr. Env	vironments	l Specialist			A	Approval Date	. 08/22/2016	5 Exp	viration E	Date: 10/22/2	2016	
E-mail Addres	ss: Johnnie	.bradford@e	nergyfrai	nsfer.com		Conditions of iscrete site sa	Approval: mples only. Delin	eate and r	emediate	Attached		
	/2016			250-5542		r NMOCD g		care and D			P 4408	
Attach Addit	ional Shee	ts If Necessa										

Sneets II Necessary

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# <u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application

Type of action: Below grade tank registration

Permit of a pit or proposed alternative method

X Closure of a pit, below-grade tank, or proposed alternative method

Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: <u>ETC Field Services</u> OGRID #:						
Address: <u>800 East Sonterra, San Antonio, TX, 78258</u>						
Facility or well name: Jal #3 Gas Plant - North Field Scrubber Dump Tank						
API Number: OCD Permit Number: OCD Permit Number:						
U/L or Qtr/Qtr <u>NE/SE</u> Section <u>32</u> Township <u>24 S</u> Range <u>37E</u> County: <u>Lea</u>						
Center of Proposed Design: Latitude <u>32,173178</u> Longitude <u>-103,176506</u> NAD83						
Surface Owner: 🗌 Federal 🔲 State 🔀 Private 🗌 Tribal Trust or Indian Allotment						
2.						
<b><u>Pit:</u></b> Subsection F, G or J of 19.15.17.11 NMAC						
Temporary: Drilling Workover						
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no						
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other						
String-Reinforced						
Liner Seams: 🗌 Welded 🗋 Factory 🗋 Other Volume:bbl Dimensions: L x W x D						
Ĵ,						
Below-grade tank:         Subsection I of 19.15.17.11 NMAC						
Volume: <u>210</u> bbl Type of fluid: <u>Pipeline Liquids</u>						
Tank Construction material: <u>Steel</u>						
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off						
Visible sidewalls and liner Visible sidewalls only Other						
Liner type: Thicknessmil						
4						
Alternative Method:						
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
5.						
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)						
Chain link, six feet in height, two strands of barbed wire at top ( <i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i> )						
Four foot height, four strands of barbed wire evenly spaced between one and four feet						
Alternate. Please specify						

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other\_

Monthly inspections (If netting or screening is not physically feasible)

### Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

### Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

### Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. **General siting** Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. $\square$ Yes X No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells NA Yes X No Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. 🗍 NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes No adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 🗌 Yes 🗌 No Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes X No from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Yes X No Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, 🗌 Yes 🗌 No or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial Yes No application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
Temporary Pit Non-low chloride drilling fluid	
<ul> <li>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 N         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:	numents are NMAC 15.17.9 NMAC
11.         Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.         Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         A List of wells with approved application for permit to drill associated with the pit.         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:	15.17.9 NMAC

12. <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the of</i>	documents are
attached.	
<b><u>Proposed Closure</u></b> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: X Waste Excavation and Removal	
<ul> <li>Waste Removal (Closed-loop systems only)</li> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>	
In-place Burial On-site Trench Burial Alternative Closure Method	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be of	attached to the
<ul> <li>closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
<ul> <li>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

- Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No		
<ul><li>Within the area overlying a subsurface mine.</li><li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li></ul>			
Within an unstable area.			
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No		
Within a 100-year floodplain.         -       FEMA map	☐ Yes ☐ No		
16.         On-Site Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.			
<sup>17.</sup> Operator Application Certification:			
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.		
Name (Print):          Title:			
Signature: Date:			
e-mail address: Telephone:			
e-mail address: Telephone: <b>0CD Approval:</b> Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)			
18.			
18.         OCD Approval:       Permit Application (including closure plan)         Closure Plan (only)       OCD Conditions (see attachment)			
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:			
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.		
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.		
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report. t complete this		

#### 22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Rose Slade Signature

Title: Senior Environmental Specialist

1/2 Date:

e-mail address: <u>Rose.Slade@energytransfer.com</u>

Telephone: 210-403-6525 Ext. 6525

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# <u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application

Type of action: Below grade tank registration

Permit of a pit or proposed alternative method

X Closure of a pit, below-grade tank, or proposed alternative method

Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: ETC Field Services OGRID #:
Address: _800 East Sonterra, San Antonio, TX, 78258
Facility or well name: <u>Jal #3 Gas Plant - North Field Scrubber Dump Tank</u>
API Number: OCD Permit Number: NA
U/L or Qtr/Qtr <u>NE/SE</u> Section <u>32</u> Township <u>24 S</u> Range <u>37E</u> County: <u>Lea</u>
Center of Proposed Design: Latitude <u>32.173122</u> Longitude <u>-103.176511</u> NAD83
Surface Owner: 🗌 Federal 🛄 State 📉 Private 🛄 Tribal Trust or Indian Allotment
2.
<b><u>Pit</u></b> : Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: 🗌 Welded 🗋 Factory 🗋 Other Volume:bbl Dimensions: L x W x D
3
Below-grade tank:         Subsection I of 19.15.17.11 NMAC
Volume: <u>210</u> bbl Type of fluid: <u>Pipeline Liquids</u>
Tank Construction material: Fiberglass
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other
Liner type: Thicknessmil HDPE PVC Other
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
<b>Fencing:</b> Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top ( <i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i> )
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other\_

Monthly inspections (If netting or screening is not physically feasible)

### Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

### Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

### Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. **General siting** Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. $\square$ Yes X No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells NA Yes X No Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. 🗍 NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes No adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 🗌 Yes 🗌 No Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes X No from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Yes X No Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, 🗌 Yes 🗌 No or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial Yes No application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No		
Temporary Pit Non-low chloride drilling fluid			
<ul> <li>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>			
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>			
<ul> <li>Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>			
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No		
Permanent Pit or Multi-Well Fluid Management Pit			
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No		
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No		
<ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No		
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No		
10.       Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.       Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC         and 19.15.17.13 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number: or Permit Number:			
11.         Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.         Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         A List of wells with approved application for permit to drill associated with the pit.         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:	15.17.9 NMAC		

12. <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the of</i>	documents are	
attached.		
<b><u>Proposed Closure</u></b> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.		
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit	
Proposed Closure Method: X Waste Excavation and Removal		
<ul> <li>Waste Removal (Closed-loop systems only)</li> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>		
In-place Burial On-site Trench Burial Alternative Closure Method		
14. <u>Waste Excavation and Removal Closure Plan Checklist</u> : (19.15.17.13 NMAC) Instructions: Each of the following items must be a	attached to the	
<ul> <li>closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>		
15.		
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.		
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA	
<ul> <li>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No	
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No	
<ul> <li>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No	
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No	
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance		

- Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No		
<ul><li>Within the area overlying a subsurface mine.</li><li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li></ul>			
Within an unstable area.			
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No		
Within a 100-year floodplain.         -       FEMA map	☐ Yes ☐ No		
16.         On-Site Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.			
<sup>17.</sup> Operator Application Certification:			
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.		
Name (Print):          Title:			
Signature: Date:			
e-mail address: Telephone:			
e-mail address: Telephone: <b>18.</b> <b>OCD Approval:</b> Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)			
18.			
18.         OCD Approval:       Permit Application (including closure plan)         Closure Plan (only)       OCD Conditions (see attachment)			
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:			
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.		
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report.		
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:	the closure report. t complete this		

### **Operator Closure Certification:**

22.

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): RC	se Slac	le,
		Had
Dignature	1200	

Title: Senior Environmental Specialist

Date:	121	81	14
	-		

e-mail address: Rose.Slade@energytransfer.com

Telephone: 210-403-6525 Ext. 6525