# **APPROVED**

By Olivia Yu at 11:56 am, Aug 29, 2018

NMOCD approves 1RP-4817 for closure.

# REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

Vanguard Operating, LLC

ABO SWD #2

Lea County, New Mexico

Unit Letter "C", Section 2, Township 17 South, Range 36 East

Latitude 32.868700° North, Longitude -103.326070° West

NMOCD Reference No. 1RP-4817

Prepared For:

Vanguard Operating, LLC 4001 Penbrook, suite 201 Odessa, Texas 79762

Prepared By:

TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705

August 10, 2018

Joel Lowry Project Manager Cindy Crain

Senior Project Manager

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#### INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of Vanguard Operating, LLC (Vanguard), has prepared this *Remediation Summary and Risk-Based Soil Closure Request* for the Site known as ABO SWD #2. The legal description of the Site is Unit Letter "C", Section 2, Township 17 South, Range 36 East, in Lea County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the site are N 32.868700° W 103.326070°. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site & Sample Location Map.

On September 19, 2017, Vanguard submitted a Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) notifying them of a historic produced water release discovered at the ABO SWD #2 Facility. The affected areas measured a combined total of approximately twelve thousand, five hundred (12,500) square feet (sq. ft.). A copy of the Form C-141 is provided in Appendix D.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) suggested the average depth to groundwater in Section 2, Township 17 South, Range 36 East is approximately eighty (80) feet (ft) below ground surface (bgs). The original workplan dated August 2018, suggested groundwater should be encountered at approximately sixty-nine (69) ft bgs. Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion.

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

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

The NMOCD guidelines indicate the ABO SWD #2 Release Site has a ranking score of ten (10). Recommended Remediation Action Levels (RRAL) for a site with a ranking score of ten (10) points are as follows:

- Benzene 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) 1,000 mg/kg
- Chloride 600 mg/kg

# SITE CHARACTERIZATION AND WORKPLAN

Between June 16 and 28, 2017, an environmental contractor for Vanguard conducted an initial investigation at the site. During the initial investigation, a series of soil bores (SP1 through SP13) were advanced within the affected area in an effort to determine the vertical and horizontal extent of soil impacts. During the advancement of the soil bores, seventy (70) delineation soil samples were collected and field screened for vapor organic compounds utilizing a Photo-Ionization Detector (PID) and for concentrations of chloride utilizing a chloride field titration kit. Select soil samples [SP 1 (Surface), SP1 (26'), SP 2 (Surface), SP2 (10'), SP3 (Surface), SP3 (18'), SP4 (Surface), SP4 (2'), SP5 (Surface), SP5 (10'), SP6 (Surface), SP6 (10'), SP7 (Surface), SP7 (28'), SP8 (Surface), SP8 (16'), SP9 (Surface), SP9 (4'), SP10 (Surface), SP10 (26'), SP11 (Surface), SP11 (18'), SP12 (Surface), SP12 (14'), SP13 (Surface), SP13 (14')] were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, BTEX, TPH and chloride concentrations using EPA SW-846 Methods 8021B, 8015M, and 4500 CL-B, respectively. Laboratory analytical results indicated benzene and BTEX concentrations were below the applicable laboratory reporting limit (RL) in each of the submitted soil samples. Analytical results indicated TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of SP3 (Surface), SP4 (Surface), SP6 (Surface), SP7 (Surface) and SP9 (Surface). Chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of SP1 (Surface), SP3 (Surface), SP6 (Surface), SP7 (Surface), SP8 (Surface), SP9 (Surface), SP9 (4'), SP10 (Surface), SP11 (Surface), SP12 (Surface) and SP13 (Surface). Soil sample locations are depicted in Figure 2 - Site & Sample Location Map. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil. Laboratory analytical reports are provided in Appendix A.

In August 2017, Vanguard submitted a *Site Characterization and Work Plan (Workplan)* to the NMOCD and NMSLO, proposing the following remediation activities designed to advance the site toward an approved closure:

- Excavate impacted soil in the areas characterized by soil points SP1, SP3, SP4, SP5 and SP6 to a depth of two (2) feet (ft.) bgs; the areas characterized by soil points SP7 and SP8 to a depth of two (2) ft. bgs; the area characterized by soil point SP9 to a depth of four (4) ft. bgs; the areas characterized by soil points SP10, SP11, SP12 and SP13 to a depth of two (2) ft. bgs
- Upon excavating impacted soil from within the release margins, install a twenty (20)-millimeter poly-ethylene liner on the floor of the excavation in the areas characterized by SP1 and SP9.
- Impacted soil excavated from the release site will be transported under manifest to an NMOCD-approved disposal facility
- Backfill the excavation with locally sourced, non-impacted "like" material
- Affected areas will be contoured to blend with existing pad area and protected against wind/water erosion
- Upon completion of remediation activities, Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and NMSLO

The *Workplan* was subsequently approved with the condition that further delineation be conducted in the areas characterized by sample points SP4 and SP9.

#### SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 15, 2018, remediation activities commenced at the release site. Impacted soil within the release margins was excavated and stockpile on-site, pending final disposition.

On June 18, 2018, in accordance with the NMOCD, TRC advanced two (2) test trenches (SP-4 and SP-9) at the site. Test trench SP-4 was advanced in the area represented by sample point SP4. During the advancement of the test trench, two (2) soil samples (SP-4 @ 3' and SP-4 @ 4') were collected and submitted to Xenco Laboratories of Midland, Texas, for analysis of chloride concentrations in accordance with EPA Method E300. Laboratory analytical results indicated soil samples SP-4 @ 3' and SP-4 @ 4' exhibited chloride concentrations of 129 mg/kg and 137 mg/kg, respectively.

Test trench SP-9 was advanced in the area represented by sample point SP9. During the advancement of the test trench, two (2) soil samples (SP-9 @ 5' and SP-9 @ 6') were collected and submitted to the laboratory for analysis of chloride concentrations in accordance with EPA Method E300. Laboratory analytical results indicated soil samples SP-9 @ 5' and SP-9 @ 6'exhibited chloride concentrations of 154 mg/kg and 112 mg/kg, respectively.

On June 20, 2018, TRC collected thirteen (13) excavation confirmation soil samples [CE NSW (1.5'), CE ESW (1.5'), CE WSW (1.5'), SSW #1 (1.5'), SSW #2 (1.5'), SSW #3 (1.5'), WSW #1 (1.5'), WSW #2 (1.5'), NSW #1 (1.5'), NSW #2 (1.5'), NSW #3 (1.5'), ESW #1 (1.5') and ESW #2 (1.5')] from the sidewalls of the excavated area and submitted them to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples CE WSW (1.5') and WSW #2 (1.5'), which exhibited TPH concentrations of 1,066 mg/kg and 2,355.3 mg/kg, respectively. Chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of soil sample CE NSW (1.5'), which exhibited a chloride concentration of 629 mg/kg. The excavation was advanced in the areas characterized by soil samples CE WSW (1.5'), WSW #2 and CE NSW (1.5').

One June 28, 2018, TRC collected four (4) excavation confirmation soil samples (NW Floor @ 2', SW Floor @ 2', CE Floor @ 2' and SE Floor @ 3') from the floor of the excavated areas and submitted them to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples with the exception of soil samples SW Floor @ 2', which exhibited a TPH concentration of 3,874.3 mg/kg. The excavation was advanced in the area characterized by soil sample SW Floor @ 2'.

In addition, three (3) excavation confirmation soil samples [WSW #2b (1'), CE WSWb (1') and CE NSW (1')] were collected from the excavation sidewalls and submitted to the laboratory for analysis. Soil sample WSW #2b (1') and CE WSWb (1') were analyzed for concentrations of TPH, which were determined to be below the NMOCD RRAL. Soil sample CE NSW (1') was analyzed for concentration of chloride, which were determined to be below the NMOCD RRAL.

Upon collecting the requisite excavation confirmation soil samples, a twenty (20)-millimeter polyethylene liner was installed on the floor of the excavation in the areas characterized by sample points SP1 and SP9. An approximate six (6)-inch layer of pad sand was installed above and below the liner in an effort to maintain the liner's integrity during backfilling activities.

On July 17, 2018, TRC collected one (1) excavation confirmation soil sample [SW Floor (3')] from the floor of the excavation in the area characterized by soil sample SW Floor @ 2. The collected soil sample was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMODC RRAL.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with locally sourced, non-impacted "like" material. Excavation backfill was waterpacked and graded to meet the needs of the production facility. Prior to backfilling, the final dimensions of the excavated area in the southwestern portion of the facility were approximately one hundred and sixty (160) ft. in length, thirty (30) to forty (40) ft. in width, and one and two (2) to three (3) ft. in depth. The final dimensions of the excavated area in the southeastern portion of the facility were approximately eighty (80) ft. in length, sixty (60) to seventy (70) ft. in width, and one and three (3) to four (4) ft. in depth. The final dimensions of the excavated area in the central portion of the facility were approximately seventy (70) ft. in length, thirty (30) ft. in width, and one and two (2) ft. in depth.

Between June 21 and July 17, 2018, approximately one thousand, three hundred twelve (1,312) cubic yards (cy) of impacted soil was transported to R360 Environmental Solutions, LLC for disposal. Copies of the disposal manifest are provided in Appendix C.

# SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with an approved *Workplan*. Impacted soil within the release margins was excavated to the maximum extent practicable and transported to an approved disposal facility. Upon collecting the requisite soil samples and receiving laboratory analytical results from confirmation soil samples, a twenty (20)-millimeter poly-ethylene liner was installed on the floor of the excavation atop impacted soil affected above the NMODC RRAL in the areas characterized by sample points SP1 and SP9. Based on laboratory analytical results and field activities conducted to date, TRC recommends Vanguard provide copies of this *Remediation Summary and Risk-Based Soil Closure Request* to the NMOCD and BLM and request closure status to the ABO SWD #2.

# **LIMITATIONS**

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

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

This report has been prepared for the benefit of Vanguard Operating, 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 Vanguard Operating, LLC.

# **DISTRIBUTION**

Copy 1: Olivia Yu

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1625 French Drive

Hobbs, New Mexico 88240

Copy 2: Ryan Mann

Hobbs Field Office

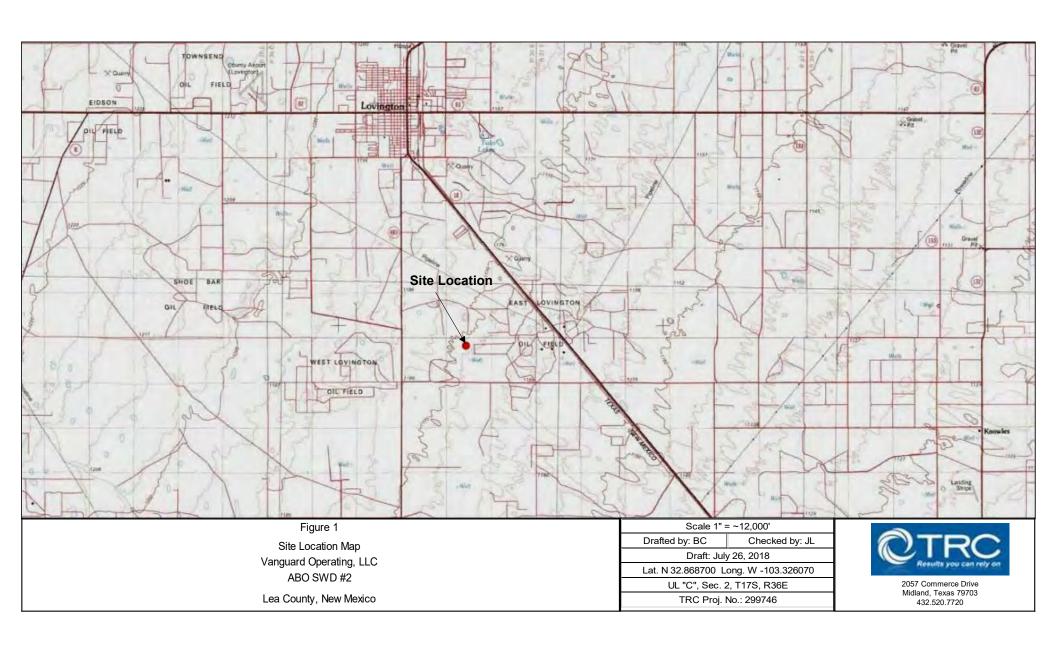
New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, New Mexico 88240

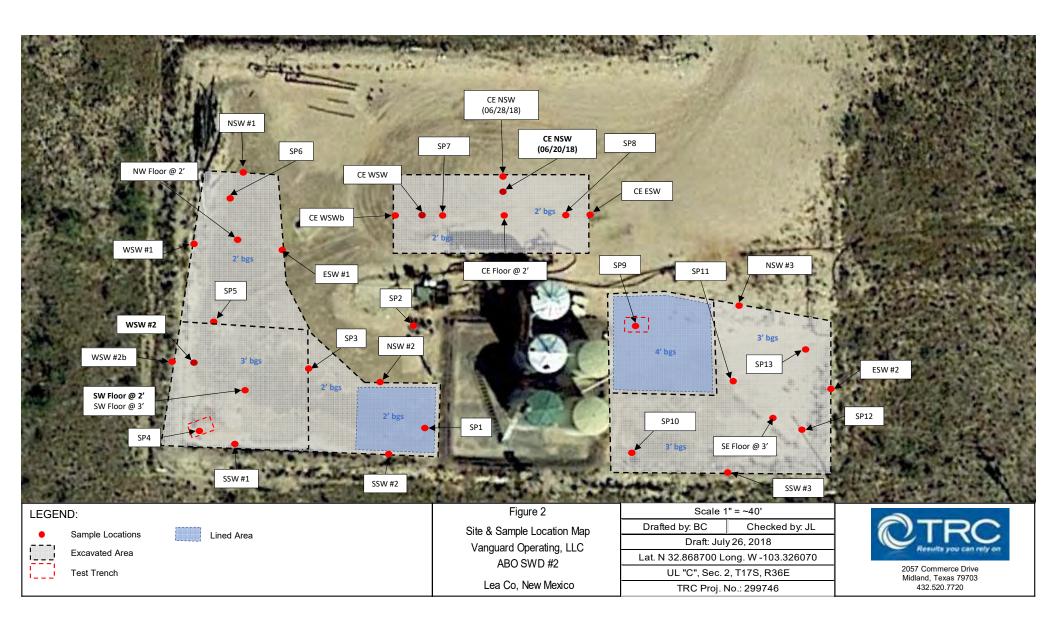
Copy 3: Chuck Johnston

Vanguard Operating, LLC 4001 Penbrook, Suite 201 Odessa, Texas 79762

Copy4: TRC Environmental Corporation

10 Desta Drive, Suite 150E Midland, Texas 79705





#### TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### VANGUARD OPERATING, LLC ABO SWD #2 LEA COUNTY, NEW MEXICO NMOCD REFERENCE No. 1RP-4817

All concentrations are reported in mg/kg

				MET	HODS: SW 846		ions are reporte		M	ETHOD: SW 80	15M		E 300.1	SM4500CI-B
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>10</sub>	TPH DRO C <sub>10</sub> -C <sub>28</sub>	TPH ORO C <sub>28</sub> -C <sub>35</sub>	TOTAL TPH C <sub>6</sub> -C <sub>28</sub>	TOTAL TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE	CHLORIDE
SP1 (Surface)	06/19/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	74.9	-	74.9	-	-	5,680
SP1 (26')	06/19/17	Risked	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	96.0
SP2 (Surface)	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	192	-	192			416
SP2 (10')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	96.0
SP3 (Surface)	06/19/17	Excavated	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	1,550	l -	1,550	-	T -	3,120
SP3 (18')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	112
										1				
SP4 (Surface) SP4 (2')	06/19/17 06/19/17	Excavated In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	< 0.300	<50.0 <10.0	13,700 647	-	13,700 647	-	-	464 144
SP5 (Surface)	06/20/17 06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	207	-	207	-	-	256
SP5 (10')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0		-	64.0
SP6 (Surface)	06/20/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	6,250	-	6,250	-	-	640
SP6 (10')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0		-	48.0
SP7 (Surface)	06/20/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	1,870	-	1,870	-	-	21,600
SP7 (28')	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	16.0
SP8 (Surface)	06/20/17	Everented	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	25.6	Ι -	25.6		ı	640
SP8 (Surface) SP8 (16')	06/20/17	Excavated In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	32.0
SP9 (Surface) SP9 (4')	06/23/17 06/23/17	Excavated Risked	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	< 0.300	<50.0 <10.0	1180 <10.0	-	1,180 <10.0	-	-	2,800 1,280
319 (4)	00/23/17	Risked	<0.030	<0.030	<0.030	<0.130	<0.300	<10.0	<10.0	-	<10.0	-	-	1,200
SP10 (Surface)	06/27/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	896
SP10 (26')	06/27/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0		-	528
SP11 (Surface)	06/28/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	49.0	-	49.0		-	6,320
SP11 (18')	06/28/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	32.0
SP12 (Surface)	06/28/17	F	<0.050	<0.050	<0.050	<0.150	<0.200	<10.0	50.2	ı	50.2		I	(1(0
SP12 (Surface) SP12 (14')	06/28/17	Excavated In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	< 0.300	<10.0 <10.0	50.3 <10.0	-	50.3 <10.0	-	-	<b>6,160</b> 48.0
SP13 (Surface) SP13 (14')	06/28/17 06/28/17	Excavated In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	< 0.300	<10.0 <10.0	49.9 <10.0	-	49.9 <10.0	-	-	5,040 160
3F13 (14)	00/28/17	III-Situ	<0.030	<0.030	<0.030	<0.130	<0.300	<10.0	<10.0	-	<10.0		-	100
SP-4 @ 3'	06/18/18	In-Situ	-	-	-	-	-	-	-	-	-	-	129	-
SP-4 @ 4' SP-9 @ 5'	06/18/18 06/18/18	In-Situ Risked	-	-	-	-	-	-	-	-	-	-	137 154	-
SP-9 @ 6'	06/18/18	Risked		-		-	-	-		-	-		112	
CE NSW (1.5') CE ESW (1.5')	06/20/18 06/20/18	Excavated In-Situ	-	-	-	-	-	<3.94 <3.71	30.8 <25.2	<24.8 <25.2	-	30.8 <25.2	<b>629</b> 229	-
CE ESW (1.5')	06/20/18	Excavated	-	-	-	-	-	<8.00	868	198	-	1,066	547	-
SSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.75	196	176	-	372	<25.0	-
SSW #2 (1.5') SSW #3 (1.5')	06/20/18 06/20/18	In-Situ In-Situ	-	-	-	-	-	<3.90 <3.66	<25.0 38.1	<25.0 <25.2	-	<25.0 38.1	399 99.6	-
WSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.77	249	126	-	375	93.4	
WSW #2 (1.5')	06/20/18	Excavated	-	-	-	-	-	24.3	1,890	441	-	2,355.3	157	-
NSW #1 (1.5') NSW #2 (1.5')	06/20/18 06/20/18	In-Situ In-Situ	-	-	-	-	-	<3.79 <3.70	26.1 94.2	25.3 33.8	-	51.4 128	491 128	-
NSW #2 (1.5') NSW #3 (1.5')	06/20/18	In-Situ In-Situ	-	-	-	-	-	<3.70	<25.2	<25.2	-	<25.2	183	-
ESW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.96	<25.0	<25.0	-	<25.0	447	-
ESW #2 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.65	<24.8	<24.8	-	<24.8	545	-
NW Floor @ 2'	06/28/18	In-Situ	-	-	-	-	-	<15.0	92.6	26.7	-	119.3	154	-
SW Floor @ 2'	06/28/18	Excavated	-	-	-	-	-	19.3	3750	105	-	3874.3	436	-
CE Floor @ 2' SE Floor @ 3'	06/28/18 06/28/18	In-Situ In-Situ	-	-	-	-	-	<15.0 <15.0	24.8 104	<15.0 <15.0	-	24.8 104	494 412	-
3E 1100F (W 3	00/28/18	m-Situ						~13.0	104	~13.0		104	712	
WSW #2b (1')	06/28/18	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	-	<15.0	-	-
CE WSWb (1') CE NSW (1')	06/28/18 06/28/18	In-Situ	-	-	-	-	-	<15.0	131	24.1	-	151.1	342	-
CE NSW (I')	00/28/18	In-Situ											342	
SW Floor (3')	07/17/18	Excavated	-	-	-	-	-	<14.9	<14.9	<14.9	-	<14.9	-	-
NMOCD Site Classification		1				1		ı	ı		ı		ı	
Criteria	-	-	10	- 1	-	-	50	-	-	-	1,	000	6	00



July 03, 2017

**Daniel Dominguez** 

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: ABO SWD #2

Enclosed are the results of analyses for samples received by the laboratory on 06/28/17 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 1 ( SURFACE ) (H701703-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2017	ND	2.16	108	2.00	1.42	
Toluene*	<0.050	0.050	06/29/2017	ND	1.96	98.2	2.00	1.95	
Ethylbenzene*	<0.050	0.050	06/29/2017	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/29/2017	ND	6.08	101	6.00	1.31	
Total BTEX	<0.300	0.300	06/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	74.9	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	100 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 9	% 347-15	7						

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 1 ( 26' ) (H701703-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	96.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7	% 347-15	7						

Surrogate: 1-Chlorooctadecane 92.7 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 2 ( SURFACE ) (H701703-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	< 0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	< 0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 72-148							
Chloride, SM4500CI-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	192	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	84.5 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 %	6 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 2 ( 10' ) (H701703-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	98.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	104 9	% 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 3 ( SURFACE ) (H701703-05)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	1550	50.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	71.9 9	% 28.3-16	4						
G 1 CH 1	1640	247.15	7						

164 % 34.7-157 Surrogate: 1-Chlorooctadecane

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 3 ( 18' ) (H701703-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	< 0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	< 0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	101 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.69	% 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 4 ( SURFACE ) (H701703-07)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	13700	50.0	06/29/2017	ND	180	90.2	200	3.77	
Surrogate: 1-Chlorooctane	104 %	% 28.3-16	4						
6 1 611 1			_						

Surrogate: 1-Chlorooctadecane 524 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/19/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 4 ( 2' ) (H701703-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	647	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	82.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	115	% 347-15	7						

Surrogate: 1-Chlorooctadecane 115 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 5 ( SURFACE ) (H701703-09)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	< 0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	< 0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 72-148							
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	207	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	90.4 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	122 %	6 34.7-15	7						

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Eunice NM, 88231
Fax To: (505) 394-2601

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 5 ( 10' ) (H701703-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	111 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	111 9	% 3 <i>4 7-15</i>	7						

Surrogate: 1-Chlorooctadecane 111 % 34.7-157

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Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 6 ( SURFACE ) (H701703-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	6250	50.0	06/29/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	68.6 %	28.3-16	[4						
			_						

Surrogate: 1-Chlorooctadecane 225 % 34.7-157

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Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 6( 10' ) (H701703-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101 9	6 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 7( SURFACE ) (H701703-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	1870	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	139 9	% 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 7 ( 28' ) (H701703-14)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	96.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	106	% 347-15	7						

106 % Surrogate: 1-Chlorooctadecane 34.7-157

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 8 ( SURFACE ) (H701703-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	25.6	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	75.4 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.0	% 347-15	7						

Surrogate: 1-Chlorooctadecane 83.0 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/20/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 8 ( 16' ) (H701703-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	108 9	% 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/23/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 9 ( SURFACE ) (H701703-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	< 0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	1180	50.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	68.0 %	% 28.3-16	4						
	1.46.0	247.15	-						

Surrogate: 1-Chlorooctadecane 146 % 34.7-157

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Received: 06/28/2017 Sampling Date: 06/23/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 9 ( 4' ) (H701703-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	98.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	104 9	% 34.7-15	7						

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Received: 06/28/2017 Sampling Date: 06/27/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 10 ( SURFACE ) (H701703-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/30/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 9	% 34.7-15	7						

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Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/27/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

# Sample ID: SP 10 ( 26' ) (H701703-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	103 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 %	6 34.7-15	7						

# Cardinal Laboratories \*=Accredited Analyte

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06/28/2017



# Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date:

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 11 ( SURFACE ) (H701703-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.04	102	2.00	0.0491	
Toluene*	<0.050	0.050	06/30/2017	ND	1.97	98.6	2.00	0.993	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.12	106	2.00	0.0321	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.26	104	6.00	0.140	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	49.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	97.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 9	% 34.7-15	7						

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Environmental Plus, Inc. **Daniel Dominguez** P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/28/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 11 (18') (H701703-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	102 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 9	% 347-15	7						

106 % Surrogate: 1-Chlorooctadecane 34.7-157

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Environmental Plus, Inc. **Daniel Dominguez** P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/28/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 12 ( SURFACE ) (H701703-23)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS 9	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 72-148	}						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	50.3	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.1 9	% 28.3-16	4						
	110.0	247.15	_						

110 % 34.7-157 Surrogate: 1-Chlorooctadecane

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Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/28/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 12 ( 14' ) (H701703-24)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	91.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.2	% 34.7-15	7						

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#### Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/28/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact
Project Number: UL-C SEC.2, T17S, R36E Sample Received By: Jodi Henson

Project Location: VANGUARD

#### Sample ID: SP 13 ( SURFACE ) (H701703-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	< 0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	49.9	10.0	06/30/2017	ND	208	104	200	2.05	
Surrogate: 1-Chlorooctane	68.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.8 9	% 34.7-15	7						

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Celey D. Keine



#### Analytical Results For:

Environmental Plus, Inc. **Daniel Dominguez** P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 06/28/2017 Sampling Date: 06/28/2017

Reported: 07/03/2017 Sampling Type: Soil

Project Name: ABO SWD #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD** 

#### Sample ID: SP 13 ( 14' ) (H701703-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/30/2017	ND	464	116	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	
Surrogate: 1-Chlorooctane	90.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	9139	% 347-15	7						

Surrogate: 1-Chlorooctadecane 91.3 % 34.7-157

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Celey D. Keine



#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Chain of Custody Form

LAB

Cardinal

Page 29 of 31

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Plus,
Inc
C

2100 Avenue O, Eunice, NM 88231

EPI Phone#/Fax#

575-394-3481 / 575-394-2601

Project Reference

**EPI Sampler Name** 

**Dustin Crockett** 

Facility Name Client Company

ABO SWD #2 Vanguard

UL- C Sec. 2, T17S, R36E

Location

P.O. Box 1558, Eunice, NM 88231

Company Name EPI Project Manager City, State, Zip Mailing Address (575) 394-3481 FAX: (575) 394-2601 Environmental Plus, Inc. **Eunice New Mexico 88231** P.O. BOX 1558 Daniel Dominguez Bill To ANALYSIS REQUEST

MATRIX CRUDE OIL Attn: Daniel Dominguez Eunice, NM 88231 PRESERV. P.O. Box 1558 SAMPLING

SLUDGE OTHER: ACID/BASE ICE/COOL OTHER

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TIME

**BTEX 8021B TPH 8015M** 

CHLORIDES (CI')

pH

PAH

19-Jun-17 19-Jun-17

SOIL

DATE

SULFATES (SO4")

OTHER >>>

×

TCLP

SP1 (Surface)

4701703

LAB I.D.

SAMPLE I.D.

(G)RAB OR (C)OMP.

# CONTAINERS **GROUND WATER** WASTEWATER

SP1 (26')

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×

G

G

SP2 (10') SP2 (Surface)

SP4 (2') SP4 (Surface) SP3 (18') SP3 (Surface)

SP5 (Surface)

G G ଉ

Sampler Relinquished SP5 (10')

Date 6-26-17 Time 6:00 am

475



elivered by



















































- & bboone.epi@gmail.com

- E-mail results to: ddominguezepi@gmail.com & cjohnston@vnrllc.com

NOTES

Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

LAB Cardinal

Delivered by:	Sampler Relinquished:		200	10	18	17	16	15	14	13		11	H TOTOS	LAB I.D.		EDI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name
#75-1.10	Time 6:00 am		*	,	SP9 (4")	SP9 (Surface)	16 SP8 (16')	15 SP8 (Surface)	SP7			SP6 (Surface)		SAMPLE I.D.		ne Dustin Crockett		UL- C Sec. 2, T17S,	ABO SWD #2	Vanguard	575-394-3481 / 575-	Eunice New Mexico 88231		ger Daniel Dominguez	Environmental Plus, Inc.
Sample Cool & Intact	R		$\exists$		G	G	ရ	ഒ	G	G	G	G	+	S)RAB OR (C)OMP				, R36E			575-394-2601	8823			s, Inc.
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		E mail results to: ddominguezepi@gmail.com & cjohnston@vnrllc.com			23-Jun-17	23-Jun-17	20-Jun-17	20-Jun-17	20-Jun-17	20-Jun-1/	20-Jun-17	11-1100-07	<b>9</b> 1	DATE	SAMPLING	Eunice, NM 88231	P.O. Box 1558	Attn: Daniel Dominguez							
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Page 30 of 31

Chain of Custody Form

# Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Delivered by:	Relinquished by:	Relinquished:		30	29	28	25 29 S	24 26 S	1325	11 24 S	21 28'S	2028	ly zis	100	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	0	575) 394-3481 FA
#75 -1.1° Sal	1. Date 17. 8	Time 2:00 pm				SP13 (14')	SP13 (Surface)	26 SP12 (14')	13 25 SP12 (Surface)	SP11 (18')	SP11 (Surface)	SP10 (26')	21 SP10 (Surface)		SAMPLE I.D.		David Robinson		UL- C Sec. 2, T17S, R36E	ABO SWD #2	Vanguard	575-394-3481 / 575-	Eunice New Mexico 88231			Environmental Plus, Inc.	FAX: (5/5) 394-2001
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TRC Solutions, Inc, Midland, TX Project Name: ABO SWD 2



**Project Id:** 

**Contact:** Joel Lowry

**Project Location:** 

**Date Received in Lab:** Tue Jun-19-18 10:15 am

**Report Date:** 26-JUN-18 **Project Manager:** Kelsey Brooks

	Lab Id:	589613-0	01	589613-0	02	589613-0	03	589613-0	04		
Analysis Requested	Field Id:	SP-4 @2	3'	SP-4 @4	1'	SP-9 @5	5'	SP-9 @	6'		
Anaiysis Requestea	Depth:	3- ft		4- ft		5- ft		6- ft			
	Matrix:	SOIL	SOIL			SOIL		SOIL			
	Sampled:	Jun-18-18 0	7:00	Jun-18-18 0	7:10	Jun-18-18 0	8:00	Jun-18-18 (	8:10		
Chloride by EPA 300	Extracted:	Jun-22-18 1	1:00	Jun-22-18 1	1:00	Jun-22-18 1	5:15	Jun-22-18 1	5:15		
	Analyzed:	Jun-22-18 1	n-22-18 13:02 Ju		4:23	Jun-22-18 1	6:12	Jun-22-18 1	6:34		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		129	129 4.95		4.95	154	4.95	112	4.95		

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

# **Analytical Report 589613**

# for TRC Solutions, Inc

Project Manager: Joel Lowry
ABO SWD 2

26-JUN-18

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

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

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

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

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





26-JUN-18

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

Reference: XENCO Report No(s): 589613

ABO SWD 2
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) 589613. 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. 589613 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,

Kunska

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 589613**



# $TRC\ Solutions, Inc,\ Midland, TX$

# ABO SWD 2

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SP-4 @3'	S	06-18-18 07:00	3 ft	589613-001
SP-4 @4'	S	06-18-18 07:10	4 ft	589613-002
SP-9 @5'	S	06-18-18 08:00	5 ft	589613-003
SP-9 @6'	S	06-18-18 08:10	6 ft	589613-004

# XENCO

#### **CASE NARRATIVE**

Client Name: TRC Solutions, Inc Project Name: ABO SWD 2

Project ID: Report Date: 26-JUN-18 Work Order Number(s): 589613 Date Received: 06/19/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





# TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id: SP-4 @3' Matrix: Soil Date Received:06.19.18 10.15

Lab Sample Id: 589613-001 Date Collected: 06.18.18 07.00 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 06.22.18 11.00 Basis: Wet Weight

Seq Number: 3054467

SCM

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	Flag	Dil
Chloride	16887-00-6	129	4.95	mg/kg	06.22.18 13.02		1





# TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id: SP-4 @4' Matrix: Soil Date Received:06.19.18 10.15

Lab Sample Id: 589613-002 Date Collected: 06.18.18 07.10 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 06.22.18 11.00 Basis: Wet Weight

Seq Number: 3054467

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	137	4.95	mg/kg	06.22.18 14.23		1





# TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id: SP-9 @5' Matrix: Soil Date Received:06.19.18 10.15

Lab Sample Id: 589613-003 Date Collected: 06.18.18 08.00 Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 06.22.18 15.15 Basis: Wet Weight

Seq Number: 3054471

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	4.95	mg/kg	06.22.18 16.12		1





# TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id: SP-9 @6' Matrix: Soil Date Received:06.19.18 10.15

Lab Sample Id: 589613-004 Date Collected: 06.18.18 08.10 Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 06.22.18 15.15 Basis: Wet Weight

Seq Number: 3054471

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	4.95	mg/kg	06.22.18 16.34		1



# **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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

**DL** Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



Seq Number:

#### **QC Summary** 589613

#### TRC Solutions, Inc ABO SWD 2

Analytical Method: Chloride by EPA 300

E300P Prep Method: Matrix: Solid Date Prep: 06.22.18

LCS Sample Id: 7657167-1-BKS LCSD Sample Id: 7657167-1-BSD MB Sample Id: 7657167-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

06.22.18 12:52 Chloride < 5.00 250 261 104 258 103 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

3054467

Prep Method: Seq Number: 3054471 Matrix: Solid Date Prep: 06.22.18

MB Sample Id: 7657168-1-BLK LCS Sample Id: 7657168-1-BKS LCSD Sample Id: 7657168-1-BSD

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec

Chloride < 5.00 250 263 105 258 103 90-110 2 20 mg/kg 06.22.18 16:02

Analytical Method: Chloride by EPA 300

Seq Number: 3054467 Matrix: Soil 06.22.18 Date Prep:

MS Sample Id: 589613-001 S MSD Sample Id: 589613-001 SD Parent Sample Id: 589613-001

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 129 248 355 91 355 91 90-110 0 20 06.22.18 13:08 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3054467 Matrix: Soil Date Prep: 06.22.18 589613-002 S MSD Sample Id: 589613-002 SD 589613-002 MS Sample Id: Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Amount Result %Rec Date Result Result %Rec

Chloride 137 248 374 96 372 95 90-110 20 06.22.18 14:29 1 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3054471 Matrix: Soil Seq Number: Date Prep: 06.22.18

589613-003 S Parent Sample Id: 589613-003 MS Sample Id: MSD Sample Id: 589613-003 SD

Parent Spike MS MS Limits %RPD RPD Limit Units Analysis **MSD MSD** Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 154 248 389 95 389 95 90-110 0 20 mg/kg 06.22.18 16:18

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

[D] = 100\*(C-A) / BRPD = 200\* | (C-E) / (C+E) |[D] = 100 \* (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

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

E300P

E300P

Prep Method:



#### **QC Summary** 589613

# **TRC Solutions, Inc** ABO SWD 2

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3054471 Matrix: Soil Date Prep: 06.22.18

Seq Number: MS Sample Id: 589731-004 S MSD Sample Id: 589731-004 SD Parent Sample Id: 589731-004

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	487	250	698	84	709	89	90-110	2	20	mg/kg	06.22.18 17:33	X

A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

 $LCS = Laboratory\ Control\ Sample$ 

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

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	100 P		Initials and Sign)							6-18-18	6-18-18	6-18-18	6-1818	tion Previously done at XENCO D 2 FL, GA, LA, MS, NC, Proj. Manager Other Other OTHERM and OTHERM and OTHERM INVOICE with Final Report P.O. No: T DRY-CLEAN Land-Fill Waste-Disp t CLP AGCEE NAVY DOE DOD I DW QAPP MIDLS RLS See Lab PM II Sampling Date Time Date  Time Date  Time Date  Time Date  Time Date	4143 Greenbriar Driv
0 18 10 3:00	0 125	10 15 15 15 15 15 15 15 15 15 15 15 15 15	Date & Time							8:10 613	8:00 53	7:10 415	7:003:5		4143 Greenbriar Drive, Stafford, TX 77477 26
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s and Collection Fee	eports are the Intelli	Cooler				-							·	or leve	
hereby requested. Rush Charges and Collection Fees are pre-approved if needed	Until haid Samples will be held 30 days after final report is a mailed unlaw.	Cooler Temp: 0, C								i.				TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d  Addn: PAH above mg/L W, mg/Kg S Highest Hit  Hold Samples (Surcharges will apply and are pre-approved)  Sample Clean-ups are pre-approved as needed  Page  Of.	<b>*</b>
needed	N CO	0.00	_	-	-	+								Addn: Date Rcv. by: From:	

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract. Committed to Excellence in Service and Quality

www.xenco.com

Page 13 of 15

Final 1.000





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



Client: TRC Solutions, Inc

**Date/ Time Received:** 06/19/2018 10:15:00 AM

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

Work Order #: 589613

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping con	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	iished/ received?	Yes
#10 Chain of Custody agrees with sample	e 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 indicate	ed test(s)?	Yes
#16 All samples received within hold time	9?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:  Checklist reviewed by:	0 - 1	Date: 06/19/2018  Date: 06/20/2018
	Kelsey Brooks	



TRC Solutions, Inc, Midland, TX
Project Name: Abo SWD

Project Id:

Contact: Joel Lowry

Project Location: Lea County

**Date Received in Lab:** Fri Jun-22-18 05:25 pm

**Report Date:** 27-JUN-18 **Project Manager:** Kelsey Brooks

	Lab Id:	590084-0	001	590084-0	02	590084-0	03	590084-0	04	590084-0	05	590084-0	06
Analysis Requested	Field Id:	CE NSV	N	CE ESV	v	CE WSV	v	SSW #1	l	SSW #2	:	SSW #3	3
Anaiysis Kequesieu	Depth:	1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-18 (	00:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00	Jun-20-18 00:00		Jun-20-18 0	00:00
Chloride by EPA 300	Extracted:	Jun-26-18 (	08:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	08:30
	Analyzed:	Jun-26-18	15:08	Jun-26-18 1	5:20	Jun-26-18 1	5:33	Jun-26-18 1	5:45	Jun-26-18 1	5:57	Jun-26-18 1	6:10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		629	125	229	25.0	547	50.0	<25.0	25.0	399	50.0	99.6	25.0
DRO-ORO By SW8015B	Extracted:	Jun-26-18	13:30	Jun-26-18 13:30		Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30
	Analyzed:	Jun-26-18	Jun-26-18 19:27		0:07	Jun-26-18 2	2:00	Jun-26-18 2	2:40	Jun-26-18 2	3:17	Jun-26-18 2	23:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Diesel Range Organics (DRO)		30.8	24.8	<25.2	25.2	868	126	196	25.1	<25.0	25.0	38.1	25.2
Oil Range Hydrocarbons (ORO)		<24.8	24.8	<25.2	25.2	198	126	176	25.1	<25.0	25.0	<25.2	25.2
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18	13:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00
	Analyzed:	Jun-26-18 (	04:02	Jun-26-18 0	4:30	Jun-26-18 1	0:53	Jun-26-18 0	4:58	Jun-26-18 02:11		Jun-26-18 0	5:25
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH-GRO		< 3.94	3.94	<3.71	3.71	<8.00	8.00	<3.75	3.75	< 3.90	3.90	<3.66	3.66

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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TRC Solutions, Inc, Midland, TX
Project Name: Abo SWD

Project Id:

Contact: Joel Lowry

Project Location: Lea County

**Date Received in Lab:** Fri Jun-22-18 05:25 pm

**Report Date:** 27-JUN-18 **Project Manager:** Kelsey Brooks

	7 7 7 7 1	500004.0	007	500004.0	00	500004.00	20	500004.0	10	500004.0	1.1	500004.0	10	
Analysis Requested	Lab Id:	590084-0	)07	590084-0	08	590084-0	)9	590084-0	10	590084-0	11	590084-0	12	
	Field Id:	WSW #	<sup>‡</sup> 1	WSW #	2	NSW #1	.	NSW #2	2	NSW #3	3	ESW #1	1	
Anaiysis Kequesieu	Depth:	1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		
	Matrix:	SOIL		SOIL		SOIL	SOIL SOIL SOIL			SOIL				
	Sampled:	Jun-20-18 (	00:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00	Jun-20-18 00:00		Jun-20-18 0	00:00	
Chloride by EPA 300	Extracted:	Jun-26-18 (	08:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	
	Analyzed:	Jun-26-18	16:22	Jun-26-18 1	6:35	Jun-26-18 1	7:00	Jun-26-18 1	7:49	Jun-26-18 1	8:02	Jun-26-18 1	8:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		93.4	25.0	157	25.0	491 D	125	128	25.0	183	25.0	447	125	
DRO-ORO By SW8015B	Extracted:	Jun-26-18	13:30	Jun-26-18 13:30		Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	Jun-26-18 1	3:30	
	Analyzed:	Jun-27-18 (	Jun-27-18 00:31		1:07	Jun-27-18 0	1:44	Jun-27-18 0	2:23	Jun-27-18 0	3:01	Jun-27-18 0		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)		249	25.1	1890	124	26.1	25.2	94.2	25.2	<25.2	25.2	<25.0	25.0	
Oil Range Hydrocarbons (ORO)		126	25.1	441	124	25.3	25.2	33.8	25.2	<25.2	25.2	<25.0	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18	13:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	Jun-25-18 1	3:00	
	Analyzed:	Jun-26-18 (	05:52	Jun-26-18 1	1:20	Jun-26-18 0	6:19	Jun-26-18 0	6:47	Jun-26-18 0	7:14	Jun-26-18 0	9:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO		<3.77	3.77	24.3	18.9	<3.79	3.79	<3.70	3.70	<3.98	3.98	< 3.96	3.96	

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TRC Solutions, Inc, Midland, TX
Project Name: Abo SWD

**Project Id:** 

Contact: Joel Lowry

Project Location: Lea County

Date Received in Lab: Fri Jun-22-18 05:25 pm

**Report Date:** 27-JUN-18 **Project Manager:** Kelsey Brooks

	Lab Id:	590084-013				
Analysis Paguastad	Field Id:	ESW #2				
Analysis Requested	Depth:	1.5- ft				
	Matrix:	SOIL				
	Sampled:	Jun-20-18 00:0	00			
Chloride by EPA 300	Extracted:	Jun-26-18 08:3	30			
	Analyzed:	Jun-26-18 18:2	26			
	Units/RL:	mg/kg	RL			
Chloride		545	125			
DRO-ORO By SW8015B	Extracted:	Jun-26-18 13:3	30			
	Analyzed:	Jun-27-18 04:1	15			
	Units/RL:	mg/kg	RL			
Diesel Range Organics (DRO)		<24.8	24.8			
Oil Range Hydrocarbons (ORO)		<24.8	24.8			
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-25-18 13:0	00			
	Analyzed:	Jun-26-18 09:3	31			
	Units/RL:	mg/kg	RL			
TPH-GRO		< 3.65	3.65			

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# **Analytical Report 590084**

# for TRC Solutions, Inc

Project Manager: Joel Lowry

Abo SWD

27-JUN-18

Collected By: Client



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

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

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

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

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



27-JUN-18

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

Reference: XENCO Report No(s): 590084

Abo SWD

Project Address: Lea County

#### 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) 590084. 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. 590084 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,

Knus Ho

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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# **Sample Cross Reference 590084**

# $TRC\ Solutions, Inc,\ Midland, TX$

Abo SWD

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
CE NSW	S	06-20-18 00:00	1.5 ft	590084-001
CE ESW	S	06-20-18 00:00	1.5 ft	590084-002
CE WSW	S	06-20-18 00:00	1.5 ft	590084-003
SSW #1	S	06-20-18 00:00	1.5 ft	590084-004
SSW #2	S	06-20-18 00:00	1.5 ft	590084-005
SSW #3	S	06-20-18 00:00	1.5 ft	590084-006
WSW #1	S	06-20-18 00:00	1.5 ft	590084-007
WSW #2	S	06-20-18 00:00	1.5 ft	590084-008
NSW #1	S	06-20-18 00:00	1.5 ft	590084-009
NSW #2	S	06-20-18 00:00	1.5 ft	590084-010
NSW #3	S	06-20-18 00:00	1.5 ft	590084-011
ESW #1	S	06-20-18 00:00	1.5 ft	590084-012
ESW #2	S	06-20-18 00:00	1.5 ft	590084-013

# XENCO

#### CASE NARRATIVE

Client Name: TRC Solutions, Inc

Project Name: Abo SWD

Project ID: Report Date: 27-JUN-18
Work Order Number(s): 590084

Report Date: 27-JUN-18
Date Received: 06/22/2018

#### Sample receipt non conformances and comments:

None

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

None

#### Analytical non conformances and comments:

Batch: LBA-3054610 TPH GRO by EPA 8015 Mod.

Surrogate 4-Bromofluorobenzene, Surrogate a,a,a-Trifluorotoluene recovered below QC limits. Matrix

interferences is suspected; data confirmed by re-analysis.

Samples affected are: 590084-005.

Batch: LBA-3054675 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: 590084-003,590084-004,590084-007,590084-008.

Batch: LBA-3054680 Chloride by EPA 300

Lab Sample ID 590084-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 590084-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



# TRC Solutions, Inc, Midland, TX

Abo SWD

Wet Weight

Sample Id: CE NSW Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-001 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis:

Seq Number: 3054680

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 629
 125
 mg/kg
 06.26.18 15.08
 5

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	30.8	24.8		mg/kg	06.26.18 19.27		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<24.8	24.8		mg/kg	06.26.18 19.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	114	%	65-144	06.26.18 19.27		
n-Triacontane		638-68-6	118	%	46-152	06.26.18 19.27		

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94		mg/kg	06.26.18 04.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	76-123	06.26.18 04.02		
a,a,a-Trifluorotoluene		98-08-8	89	%	69-120	06.26.18 04.02		



# TRC Solutions, Inc, Midland, TX

Abo SWD

06.26.18 08.30

Sample Id: **CE ESW** Matrix: Soil Date Received:06.22.18 17.25

Date Prep:

Lab Sample Id: 590084-002 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Wet Weight

RNL % Moisture: Tech: RNL Basis:

Seq Number: 3054680

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 229 25.0 mg/kg 06.26.18 15.20 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

**PGM** Tech:

**PGM** Analyst: Basis: Wet Weight Date Prep: 06.26.18 13.30

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.2	25.2		mg/kg	06.26.18 20.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.26.18 20.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	99	%	65-144	06.26.18 20.07		
n-Triacontane		638-68-6	90	%	46-152	06.26.18 20.07		

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 06.25.18 13.00 Date Prep:

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.71	3.71		mg/kg	06.26.18 04.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	76-123	06.26.18 04.30		
a,a,a-Trifluorotoluene		98-08-8	92	%	69-120	06.26.18 04.30		



# TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: CE WSW Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-003 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis: Wet Weight

Seq Number: 3054680

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 547
 50.0
 mg/kg
 06.26.18 15.33
 2

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil Diesel Range Organics (DRO) C10C28DRO 06.26.18 22.00 868 126 mg/kg 5 Oil Range Hydrocarbons (ORO) PHCG2835 198 126 mg/kg 06.26.18 22.00 5 % Surrogate Cas Number Flag Units Limits **Analysis Date** Recovery 638-67-5 65-144 06.26.18 22.00 \*\* Tricosane 450 % 06.26.18 22.00 n-Triacontane 638-68-6 368 % 46-152

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

**Parameter** Cas Number Result RLUnits **Analysis Date** Flag Dil TPH-GRO 8006-61-9 <8.00 8.00 06.26.18 10.53 U 2 mg/kg % Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 460-00-4 76-123 06.26.18 10.53 4-Bromofluorobenzene % a,a,a-Trifluorotoluene 98-08-8 73 % 69-120 06.26.18 10.53



# TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: SSW #1 Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-004 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

% Moisture:

% Moisture:

% Moisture:

RNL Tech:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis: Wet Weight

Prep Method: E300P

Seq Number: 3054680

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.26.18 15.45	U	1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

**PGM** Analyst: 06.26.18 13.30 Basis: Wet Weight Date Prep:

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	196	25.1		mg/kg	06.26.18 22.40		1
Oil Range Hydrocarbons (ORO)	PHCG2835	176	25.1		mg/kg	06.26.18 22.40		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	211	%	65-144	06.26.18 22.40	**	
n-Triacontane		638-68-6	282	%	46-152	06.26.18 22.40	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 06.25.18 13.00 Date Prep:

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.75	3.75		mg/kg	06.26.18 04.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	76-123	06.26.18 04.58		
a,a,a-Trifluorotoluene		98-08-8	95	%	69-120	06.26.18 04.58		



# TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: SSW #2 Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-005 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis: Wet Weight

Seq Number: 3054680

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 399
 50.0
 mg/kg
 06.26.18 15.57
 2

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Result Cas Number RL**Parameter** Units **Analysis Date** Flag Dil Diesel Range Organics (DRO) C10C28DRO <25.0 25.0 06.26.18 23.17 mg/kg U 1 Oil Range Hydrocarbons (ORO) PHCG2835 <25.0 25.0 mg/kg 06.26.18 23.17 U 1 % Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery Tricosane 638-67-5 65-144 06.26.18 23.17 103 % 104 46-152 06.26.18 23.17 n-Triacontane 638-68-6 %

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.90	3.90		mg/kg	06.26.18 02.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	46	%	76-123	06.26.18 02.11	**	
a,a,a-Trifluorotoluene	g	98-08-8	65	%	69-120	06.26.18 02.11	**	

% Moisture:



# TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: SSW #3 Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-006 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis: Wet Weight

Seq Number: 3054680

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 99.6
 25.0
 mg/kg
 06.26.18 16.10
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	38.1	25.2		mg/kg	06.26.18 23.52		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.26.18 23.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	111	%	65-144	06.26.18 23.52		
n-Triacontane		638-68-6	118	%	46-152	06.26.18 23.52		

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.66	3.66		mg/kg	06.26.18 05.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	76-123	06.26.18 05.25		
a,a,a-Trifluorotoluene		98-08-8	81	%	69-120	06.26.18 05.25		

% Moisture:



# TRC Solutions, Inc, Midland, TX

Abo SWD

06.26.18 08.30

Prep Method: E300P

% Moisture:

% Moisture:

Wet Weight

Sample Id: WSW #1 Matrix: Soil Date Received:06.22.18 17.25

Date Prep:

Lab Sample Id: 590084-007 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

RNL % Moisture:

Tech: RNL Basis:

Seq Number: 3054680

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 06.26.18 16.22 93.4 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

**PGM** Tech:

**PGM** Analyst: Basis: Wet Weight Date Prep: 06.26.18 13.30

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	249	25.1		mg/kg	06.27.18 00.31		1
Oil Range Hydrocarbons (ORO)	PHCG2835	126	25.1		mg/kg	06.27.18 00.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	261	%	65-144	06.27.18 00.31	**	
n-Triacontane		638-68-6	271	%	46-152	06.27.18 00.31	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 06.25.18 13.00 Date Prep:

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.77	3.77		mg/kg	06.26.18 05.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	76-123	06.26.18 05.52		
a,a,a-Trifluorotoluene		98-08-8	90	%	69-120	06.26.18 05.52		



# TRC Solutions, Inc, Midland, TX

Abo SWD

06.26.18 08.30

Sample Id: WSW #2 Matrix: Soil Date Received:06.22.18 17.25

Date Prep:

Lab Sample Id: 590084-008 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

RNL

Prep Method: E300P

% Moisture:

% Moisture:

Tech: RNL

% Moisture:
Basis: Wet Weight

Seq Number: 3054680

Analyst:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 157
 25.0
 mg/kg
 06.26.18 16.35
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	1890	124		mg/kg	06.27.18 01.07		5
Oil Range Hydrocarbons (ORO)	PHCG2835	441	124		mg/kg	06.27.18 01.07		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	845	%	65-144	06.27.18 01.07	**	
n-Triacontane		638-68-6	676	%	46-152	06.27.18 01.07	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	24.3	18.9		mg/kg	06.26.18 11.20		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	82	%	76-123	06.26.18 11.20		
a,a,a-Trifluorotoluene	9	98-08-8	90	%	69-120	06.26.18 11.20		



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

Abo SWD

Wet Weight

Sample Id: NSW #1 Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-009 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 06.26.18 08.30 Basis:

Seq Number: 3054680

**Parameter** Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 125 D Chloride 491 mg/kg 06.26.18 17.12 5

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Result Cas Number RL**Parameter** Units **Analysis Date** Flag Dil Diesel Range Organics (DRO) C10C28DRO 25.2 06.27.18 01.44 26.1 mg/kg 1 PHCG2835 Oil Range Hydrocarbons (ORO) 25.3 25.2 mg/kg 06.27.18 01.44 1 % Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery Tricosane 638-67-5 65-144 06.27.18 01.44 109 % 46-152 06.27.18 01.44 n-Triacontane 638-68-6 116 %

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.79	3.79		mg/kg	06.26.18 06.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	103	%	76-123	06.26.18 06.19		
a,a,a-Trifluorotoluene	g	98-08-8	92	%	69-120	06.26.18 06.19		

Final 1.000



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

Abo SWD

Sample Id: NSW #2 Matrix: Soil Date Received:06.22.18 17.25

Date Prep:

Lab Sample Id: 590084-010 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

06.26.18 08.30

Basis:

Wet Weight

RNL Tech:

Seq Number: 3054680

Analyst:

RNL

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 06.26.18 17.49 128 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech:

**PGM** % Moisture:

**PGM** Analyst: Basis: Wet Weight Date Prep: 06.26.18 13.30

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	94.2	25.2		mg/kg	06.27.18 02.23		1
Oil Range Hydrocarbons (ORO)	PHCG2835	33.8	25.2		mg/kg	06.27.18 02.23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	140	%	65-144	06.27.18 02.23		
n-Triacontane		638-68-6	138	%	46-152	06.27.18 02.23		

Prep Method: SW5030B Analytical Method: TPH GRO by EPA 8015 Mod.

MIT Tech: % Moisture:

MIT Basis: Wet Weight Analyst: 06.25.18 13.00 Date Prep:

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.70	3.70		mg/kg	06.26.18 06.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	76-123	06.26.18 06.47		
a,a,a-Trifluorotoluene		98-08-8	91	%	69-120	06.26.18 06.47		



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

Abo SWD

06.26.18 13.30

Sample Id: **NSW #3** Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-011 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

RNL % Moisture: Tech:

**RNL** Analyst: Date Prep: 06.26.18 08.30 Basis: Wet Weight

Seq Number: 3054680

**Parameter** Result Cas Number RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 183 25.0 mg/kg 06.26.18 18.02 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Date Prep:

**PGM** % Moisture: Tech:

**PGM** Analyst: Basis: Wet Weight

Seq Number: 3054675

Result Cas Number RL**Parameter** Units **Analysis Date** Flag Dil Diesel Range Organics (DRO) C10C28DRO <25.2 25.2 06.27.18 03.01 mg/kg U 1 Oil Range Hydrocarbons (ORO) PHCG2835 <25.2 25.2 mg/kg 06.27.18 03.01 U 1 0/0 Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery Tricosane 638-67-5 65-144 06.27.18 03.01 % 06.27.18 03.01 n-Triacontane 638-68-6 93 % 46-152

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture: Tech:

MIT Analyst: 06.25.18 13.00 Basis: Wet Weight Date Prep:

Seq Number: 3054610

**Parameter** Cas Number Result RLUnits **Analysis Date** Flag Dil TPH-GRO 8006-61-9 <3.98 3.98 06.26.18 07.14 U mg/kg 1 Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 4-Bromofluorobenzene 460-00-4 76-123 06.26.18 07.14 105 % a,a,a-Trifluorotoluene 98-08-8 89 % 69-120 06.26.18 07.14



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

Abo SWD

06.26.18 08.30

Prep Method: E300P

% Moisture:

% Moisture:

Wet Weight

Sample Id: ESW #1 Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-012 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

% Moisture: Date Prep:

RNL Tech: RNL Basis:

Seq Number: 3054680

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 125 06.26.18 18.14 447 mg/kg 5

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

**PGM** Tech:

**PGM** Analyst: Basis: Wet Weight Date Prep: 06.26.18 13.30

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0		mg/kg	06.27.18 03.39	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0		mg/kg	06.27.18 03.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	95	%	65-144	06.27.18 03.39		
n-Triacontane		638-68-6	100	%	46-152	06.27.18 03.39		

Prep Method: SW5030B Analytical Method: TPH GRO by EPA 8015 Mod.

MIT Tech:

MIT Basis: Wet Weight Analyst: 06.25.18 13.00 Date Prep:

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.96	3.96		mg/kg	06.26.18 09.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	76-123	06.26.18 09.04		
a,a,a-Trifluorotoluene		98-08-8	94	%	69-120	06.26.18 09.04		



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

Abo SWD

06.26.18 08.30

Sample Id: ESW #2 Matrix: Soil Date Received:06.22.18 17.25

Date Prep:

Lab Sample Id: 590084-013 Date Collected: 06.20.18 00.00 Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Wet Weight

Basis:

% Moisture:

% Moisture:

Tech: RNL % Moisture:

Seq Number: 3054680

Analyst:

RNL

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 545
 125
 mg/kg
 06.26.18 18.26
 5

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 06.26.18 13.30 Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<24.8	24.8		mg/kg	06.27.18 04.15	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<24.8	24.8		mg/kg	06.27.18 04.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	100	%	65-144	06.27.18 04.15		
n-Triacontane		638-68-6	103	%	46-152	06.27.18 04.15		

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 06.25.18 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
TPH-GRO	8006-61-9	<3.65	3.65		mg/kg	06.26.18 09.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	76-123	06.26.18 09.31		
a,a,a-Trifluorotoluene		98-08-8	85	%	69-120	06.26.18 09.31		



## **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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



**Parameter** 

Seq Number:

Parent Sample Id:

#### **QC Summary** 590084

#### TRC Solutions, Inc

Abo SWD

LCSD

LCSD

Analytical Method: Chloride by EPA 300

Seq Number: 3054680 Matrix: Solid

MR

LCS Sample Id: 7657385-1-BKS MB Sample Id: 7657385-1-BLK

Spike

Prep Method: Date Prep: 06.26.18

LCSD Sample Id: 7657385-1-BSD

%RPD RPD Limit Units Analysis Flag

E300P

06.26.18

E300P

Result Amount Result %Rec Date %Rec Result Chloride 06.26.18 13:53 <25.0 250 254 102 257 103 90-110 20 mg/kg

LCS

Analytical Method: Chloride by EPA 300

3054680 Matrix: Soil

Parent Sample Id: 589735-001

MS Sample Id: 589735-001 S

LCS

Spike MS MS Parent **MSD** 

**Parameter** Result

Result %Rec Amount

281 112 Result

**MSD** Limits %Rec

Limits

MSD Sample Id: 589735-001 SD %RPD RPD Limit Units

Prep Method:

Date Prep:

Analysis

Flag Date

X

Chloride <25.0 250 279 112 80-120 20 mg/kg 06.26.18 14:31

Analytical Method: Chloride by EPA 300

Seq Number: 3054680 Matrix: Soil

MS Sample Id: 590084-009

590084-009 S

Prep Method: E300P

Date Prep:

06.26.18 MSD Sample Id: 590084-009 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec

Chloride 513 250 1820 523 1800 515 80-120 20 06.26.18 17:24 mg/kg

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3054675 Matrix: Solid

LCS Sample Id: 7657369-1-BKS MB Sample Id: 7657369-1-BLK

SW8015P Prep Method: Date Prep: 06.26.18

LCSD Sample Id: 7657369-1-BSD

LCS LCS %RPD RPD Limit Units MB Spike LCSD LCSD Limits Analysis Flag **Parameter** Amount Result %Rec Date Result Result %Rec 06.26.18 18:11 Diesel Range Organics (DRO) <25.0 100 105 105 98.1 63-139 7 20 mg/kg 98

LCS MB MB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 06.26.18 18:11 Tricosane 85 108 107 65-144 % 06.26.18 18:11 n-Triacontane 79 79 85 46-152

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

[D] = 100\*(C-A) / BRPD = 200\* | (C-E) / (C+E) |[D] = 100 \* (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

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



#### QC Summary 590084

#### TRC Solutions, Inc

Abo SWD

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3054675 Matrix: Soil Date Prep: 06.26.18

Parent Sample Id: 590084-002 MS Sample Id: 590084-002 S MSD Sample Id: 590084-002 SD

Parent Spike MS MS Limits %RPD RPD Limit Units **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec %Rec Result 06.26.18 20:46 Diesel Range Organics (DRO) <25.1 100 88.1 88 91.9 92 63-139 4 20 mg/kg

Surrogate

MS MS MSD MSD Limits Units Analysis
%Rec Flag %Rec Flag Date

 Tricosane
 112
 110
 65-144
 %
 06.26.18 20:46

 n-Triacontane
 100
 92
 46-152
 %
 06.26.18 20:46

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Seq Number: 3054610 Matrix: Solid Date Prep: 06.25.18

MB Sample Id: 7657268-1-BLK LCS Sample Id: 7657268-1-BKS LCSD Sample Id: 7657268-1-BSD

Spike MB LCS LCS Limits %RPD RPD Limit Units Analysis LCSD LCSD **Parameter** Flag Result Amount Result %Rec Result %Rec Date

TPH-GRO <4.00 20.0 21.8 109 21.9 110 35-129 0 20 mg/kg 06.26.18 13:10

Limits MB MB LCS LCS LCSD LCSD Units Analysis **Surrogate** Flag %Rec Flag %Rec Flag Date %Rec 4-Bromofluorobenzene 82 83 84 76-123 % 06.26.18 13:10 a,a,a-Trifluorotoluene 117 91 90 69-120 % 06.26.18 13:10

Analytical Method:TPH GRO by EPA 8015 Mod.Prep Method:SW5030BSeq Number:3054610Matrix: SoilDate Prep:06.25.18

Parent Sample Id: 590084-005 MS Sample Id: 590084-005 S MSD Sample Id: 590084-005 SD

%RPD RPD Limit Units Parent Spike MS MS MSD **MSD** Limits Analysis **Parameter** Flag Result Result %Rec Date Amount Result %Rec 06.26.18 02:39 TPH-GRO <3.97 17.2 19.8 87 16.3 82 35-129 5 20 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Date Flag %Rec %Rec Flag 4-Bromofluorobenzene 115 104 76-123 06.26.18 02:39 %

86

a,a,a-Trifluorotoluene

73

SW8015P

Prep Method:

69-120

%

06.26.18 02:39



Stafford, Texas (281-240-4200)

CHAIN OF CUSTODY
Page 1 Of 7

			5,0084	Matrix Codes	W = Water S = Sol/Sed/Solid	DW = Ground Water DW = Drinking Water P = Product SW = Surface weeks	SL = Studge OW = Ocean/Sea Water WI = Wipe O = OII	WW= Waste Water A = Air	Field Comments		800	J	5	*	30	0 8	9							Soler Temp. Thermo. Corr. Factor  Soler Temp. Thermo. Corr. Factor  Soler and shall not assume any responsibility for any divilled invoiced at es.	the sample. These terms will
	Phoenix, Artzona (480-355-0900)	Xenco Quote #	# 000 Dallace	and the matter			300	Chloride I CLP Ben CLP Ben CLP Ben CLP Ben CLP Ben Joride I		* >	× ×	×	×	×××	· ×	×			Zconder@trcsolutions.com	ucooper@trcsolutions.com	FED-EX / UPS: Tracking #	Date Time: Received By:	Received By:  A 4  Area where applicable	On Ice Its of service. Xenco will be liable only for the cost of samples. Any samples received by Xenco but not analyze	
San America	Midland, Texas (432-704-5251)	WWW.Xenco.com	Project Information	Troject NameNumber: Abo SWID Project Location:	Les County Invoice To:	Vanguard CO Chuck Johnston Involce:	Collection Minther of areaswed bottess	Sample  Depth Date  Time  Matrix bontes  # of HVO3  HV	6/20/2018 s	6/20/2018	6/20/2018		6/20/2018 S			Deliverable Information	Level II Std QC	ms ms	Level 3 (CLP Forms) UST / RG -411	That Checklist	MENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY  Received By:  Relinguished B.:	Received By: Relinquished By:	Sign Seal # Custody Seal # Preser	Onice Cooler Temp. Thermo. Corr. Factor  A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples received by Xenco but not analyzed will be involved at \$5	
Dallas Texas (214,000,000)	29008	Cilent / Reporting Information	Company Name / Branch: TRC Environmental Corporation	Company Address: 10 Desta Dr. Suite 150E Midland, TX 79705	Email:  Iowry@trosolutions.com Phone No: 432-466-4450	Project Contact: Joel Lowry Samplers's Name:	No. Field ID / Point of Collection	1 CE NSW De 2 CE ESW 1	3 CE WSW	# MSD 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 SSW #3	~	WSW #2	0 NSW #2 1.5.1	ound Time ( Business days)	Same Day TAT 5 Day TAT	Next Day EMERGENCY		Ш	Relipquished by Sample.	X	Pelinquished by:	Ser Notice: Signature of this document and relinquishment of samples constitutes & Valid Durch flored unless praviouses previously the Client if such loses are due no ring man.	regotiated under a fully executed client contract.	



Stafford, Texas (281-240-4200)

6900HS Dallas Texas (214-902-0300)

# CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Xenco Quote #

www.xenco.com

Midland, Texas (432-704-5251)

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Cllent / Reporting Information		Analytical Information	Matrix Codos
Company Name / Branch:	Project Name/Number:		Seno Yinga
Comment Address:	Abo SWD		
TO reputy youress.  Midland TV Suite 150E	Project Location:		W = Water S = Soll/Sed/Solid
Email: Phone No:	Lea County		GW =Ground Water DW = Drinking Water
llowry @trcsolutions.com	IIIVOICE I 03		P = Product
Project Contact: Joel Lowry	Vanguard CO Chuck Johnston		SL = Stridge SL = Stridge OW = Orean/Sea Weter
Samplers's Name:	Involce:	Me	Wi = Wipe
No. Flant In / Doing of College	Collection Number of presenved boffles	E 300	O = OII  WW= Waste Water
	## ## ## ## ## ## ## ## ## ## ## ## ##	MA I Beg DB d	
1 NSW #3	Date Time Matrix bottles C Acc N Acc	CPI TCI TCI TCI CPI	
<sub>2</sub> ESW #1	+	×	Supering Sup
ESW #2	1.5' 6/20/2018 s	×	
	1.5' 6/20/2018 s	×	80
4			7)
2			
9			
7			
8			
6			
10			
Turnaround Time ( Business days)	Date Dalinovakia sasa		
Same Day TAT 5 Day TAT	Deliverable Information	Notes:	
Next Day EMERGENCY	Level II Std QC Level IV (Full Data Pkg /raw data)	ata) Ilowry @ trcsolutions.com	
	Level III Std QC+ Forms TRRP Level IV	zconder@trcsolutions com	
2 Day EMERGENCY X Contract TAT	Level 3 (CLP Forms) UST / RG -411		
3 Day EMERGENCY	TRRP Checklist	ucooper @ tresolutions.com	
TAT Starts Day received by Lab, if received by 5:00 pm	-		
SAMPLE CUSTODY MUS	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING ACCURATION OF THE SAMPLES ACCURATI	FED-EX / UPS: Tracking #	
d	Received By: Relinquished By: Relinq	Date Time: Received By:	
	Date Time: Received By: Relinquished By:	Date Time: Benefited B	
Relinquished by:		4	
	Custody Seal #	Preserved where applicable On Ice	Cooler Temp. Thermo. Corr. Factor

| State | Signature of this document and relinquishment of samples constitutes to valid purchase organized by the Client is and conditions of service. Signature of this document and relinquishment of samples constitutes to valid purchase organized from client confidency to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Aenco will be liable only for the cost of samples and shall not assume any responsibility for any be enforced unless previously negotiated under a fully executed client contract.



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



Client: TRC Solutions, Inc

**Date/ Time Received:** 06/22/2018 05:25:00 PM

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

Work Order #: 590084

Temperature Measuring device used: IR-3

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.9	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/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 headsp	ace?	N/A	

Must be	completed for after-hours de	elivery of samples prior to placing	in the refrigerator
Analyst:		PH Device/Lot#: IR-3	
	Checklist completed by:	Brenda Ward	Date: 06/22/2018
	Checklist reviewed by:	Kelsey Brooks	Date: 06/22/2018



# Certificate of Analysis Summary 591008

TRC Solutions, Inc, Midland, TX Project Name: Vanguard Abo SWD #2



**Project Id:** 

**Contact:** Joel Lowry

**Project Location:** Lea County, NM

Date Received in Lab: Sat Jun-30-18 09:00 am

**Report Date:** 09-JUL-18 **Project Manager:** Kelsey Brooks

	1 1								
	Lab Id:	591008-0	01	591008-0	02	591008-00	)3		
Analysis Requested	Field Id:	WSW #2	b	CE WSW	⁄b	CE NSW	,		
Analysis Requesieu	Depth:	1-		1-		1-			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jun-28-18 0	7:45	Jun-28-18 0	7:50	Jun-28-18 07	7:55		
Chloride by EPA 300	Extracted:					Jul-05-18 15	:00		
	Analyzed:					Jul-05-18 21	:32		
	Units/RL:					mg/kg	RL		
Chloride						342	4.93		
TPH by SW8015 Mod	Extracted:	Jul-06-18 10	0:00	Jul-06-18 10	0:00				
	Analyzed:	Jul-06-18 19	9:19	Jul-06-18 19	9:39				
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	131	15.0				
Oil Range Hydrocarbons (ORO)		<15.0	15.0	24.1	15.0				
Total TPH		<15	15	155.1	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

Kelsey Brooks Project Manager

# **Analytical Report 591008**

# for TRC Solutions, Inc

Project Manager: Joel Lowry Vanguard Abo SWD #2

09-JUL-18

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

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

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

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

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





09-JUL-18

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

Reference: XENCO Report No(s): 591008

Vanguard Abo SWD #2

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) 591008. 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. 591008 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,

Kunskr

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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



# **Sample Cross Reference 591008**



# $TRC\ Solutions, Inc,\ Midland, TX$

Vanguard Abo SWD #2

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
WSW #2b	S	06-28-18 07:45	1	591008-001
CE WSWb	S	06-28-18 07:50	1	591008-002
CE NSW	S	06-28-18 07:55	1	591008-003

# XENCO

#### **CASE NARRATIVE**

Client Name: TRC Solutions, Inc Project Name: Vanguard Abo SWD #2

Project ID: Report Date: 09-JUL-18 Work Order Number(s): 591008 Date Received: 06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





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

Vanguard Abo SWD #2

Sample Id: WSW #2b Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591008-001 Date Collected: 06.28.18 07.45 Sample Depth: 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.06.18 10.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.06.18 19.19	U	1
Total TPH	PHC635	<15	15		mg/kg	07.06.18 19.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	07.06.18 19.19		
o-Terphenyl		84-15-1	96	%	70-135	07.06.18 19.19		





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

Vanguard Abo SWD #2

Sample Id: CE WSWb Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591008-002 Date Collected: 06.28.18 07.50 Sample Depth: 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

% Moisture:

Analyst: ARM Date Prep: 07.06.18 10.00 Basis: Wet Weight

Seq Number: 3055781

ARM

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.06.18 19.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	131	15.0		mg/kg	07.06.18 19.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	24.1	15.0		mg/kg	07.06.18 19.39		1
Total TPH	PHC635	155.1	15		mg/kg	07.06.18 19.39		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	07.06.18 19.39		
o-Terphenyl		84-15-1	93	%	70-135	07.06.18 19.39		





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

Vanguard Abo SWD #2

Sample Id: CE NSW Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591008-003 Date Collected: 06.28.18 07.55 Sample Depth: 1

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 07.05.18 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	Flag	Dil
Chloride	16887-00-6	342	4.93	mg/kg	07.05.18 21.32		1



## **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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

**DL** Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



#### QC Summary 591008

#### TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method: Chloride by EPA 300 Prep Method:

 Seq Number:
 3055723
 Matrix:
 Solid
 Date Prep:
 07.05.18

 MB Sample Id:
 7657872-1-BLK
 LCS Sample Id:
 7657872-1-BKS
 LCSD Sample Id:
 7657872-1-BKS

MB Sample Id: 7657872-1-BLK LCS Sample Id: 7657872-1-BKS LCSD Sample Id: 7657872-1-BSD

MB Spike LCS LCSD LCSD LCSD Limits %RPD RPD Limit Units Analysis

Parameter Result % R

Result Amount Result %Rec Date %Rec Result 07.05.18 19:23 Chloride < 5.00 250 232 93 235 94 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3055723 Matrix: Soil Date Prep: 07.05.18

Parent Sample Id: 590920-004 MS Sample Id: 590920-004 S MSD Sample Id: 590920-004 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3055723 Matrix: Soil Date Prep: 07.05.18

Parent Sample Id: 591006-007 MS Sample Id: 591006-007 S MSD Sample Id: 591006-007 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec

Chloride 29.1 245 266 97 265 96 90-110 0 20 mg/kg 07.05.18 20:54

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3055781
 Matrix:
 Solid
 Date Prep:
 07.06.18

 MB Sample Id:
 7657983-1-BLK
 LCS Sample Id:
 7657983-1-BKS
 LCSD Sample Id:
 7657983-1-BSD

%RPD RPD Limit Units MB Spike LCS LCS LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 07.06.18 11:18 Gasoline Range Hydrocarbons (GRO) 940 94 943 94 70-135 0 20 <15.0 1000 mg/kg 07.06.18 11:18 963 96 70-135 0 20

96 Diesel Range Organics (DRO) 1000 961 <15.0 mg/kg MB LCS LCSD MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date

1-Chlorooctane 102 115 115 70-135 % 07.06.18 11:18 o-Terphenyl 108 107 103 70-135 % 07.06.18 11:18

E300P

Flag



Seq Number:

#### QC Summary 591008

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

Vanguard Abo SWD #2

Analytical Method: TPH by SW8015 Mod

3055781

Matrix: Soil

Prep Method: TX1005P

Date Prep: 07.06.18

Parent Sample Id: 590704-001 MS Sample Id: 590704-001 S

MSD Sample Id: 590704-001 SD

04-001 SD

Analysis Flag

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	F
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	905	91	929	93	70-135	3	20	mg/kg	07.06.18 12:18	
Diesel Range Organics (DRO)	<15.0	1000	951	95	979	98	70-135	3	20	mg/kg	07.06.18 12:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		114		70-135	%	07.06.18 12:18
o-Terphenyl	96		99		70-135	%	07.06.18 12:18

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

$$\begin{split} LCS &= Laboratory \ Control \ Sample \\ A &= Parent \ Result \end{split}$$

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



# CHAIN OF CUSTODY

Setting the Standard since 1990 Stafford, Texas (281-240-4200)

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

Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300)	Midland, T	Midland, Texas (432-704-5251)	04-5251)									,					
			www.xenco.com	o.com			Xenco Quote #	uote #				Xenc	Xenco Job #			79 Q	ΣŌ.
									Analy	Analytical Information	format	ğ				l	Matrix Codes
Client / Reporting Information		Projec	Project Information						4	$\dashv$	ᅱ	٦					mun IX Ocaso
Company Name / Branch: TRC Environmental Corporation	Project Name/Number: Vanguard Abo SWI	Number:															W = Water
Company Address:	Project Location:	on:															S = Soil/Sed/Solid
10 Desta Dr. Suite 150E Midland, TX 79705	Lea County, NM	Ē															GW =Ground Water DW = Drinking Water
	invoice To:																P = Product
IOWIY@TCSOLUTIONS.COM 432-466-4450	Vanguard, CO	Vanguard, CO Chuck Johnston	ē						*****		s		1)				SL = Sludge
Project Contact: Joel Lowry	Invoice										/letal		t (NN				OW ≔Ocean/Sea Water WI = Wipe
Samplers's Name:									_	ne	8 N		Ext				0=011
	Collection			Number	Number of preserved brailes			E 30		nzen	RA 8		5 M E				WW= Waste Water A = Air
No. Field ID / Point of Collection				'n					· · ·	Ве	RC	de	301				
Sample Depth	ple Date	Time	# of bottles	ICI VaOH/Z Acetate	I2SO4 IaOH	NEOH	ГРН	Ohlor NORI	RCI	CLP	CLP	Chlori	PH 8				
1 WSW #2b	6/28/2018		-			•	$\dashv$			$\dashv$	+	-	× 7				rieid Comments
2 CE WSWb	6/28/2018	2:50	5				$\downarrow$	+	$\dashv$	十	十		×		$\perp$		
3 CE NSW	6/28/2018	7:55	s						$\dashv$	$\dashv$	$\dashv$	×					
4								$\dashv$	$\dashv$	$\dashv$	T	1					
O								-	$\dashv$	$\dashv$	$\dashv$	1			$\bot$		
6	-						4	$\dashv$	$\dashv$	1	$\top$	T			$\perp$	-	
7							4	$\dashv$	+	$\top$	$\top$				$\perp$		
8							$\downarrow$	$\dashv$	$\dashv$	$\top$	1	T			$\perp$		
9							4	$\dashv$	$\dashv$	$\top$	1				$\perp$		
10							4	$\dashv$	+	十	$\top$			$\bot$	_		
Turnaround Time (Business days)			Data Deliver	Data Deliverable Information				-	ŀ		Notes:	<u> </u>		L			
Same Day TAT 5 Day TAT		Level	Level II Std QC	П	Level IV (Full Data Pkg		raw data)	٦		ilow	ilowry@trcsolutions.com	soluti	ons.cc	3			
Next Day EMERGENCY		Level	Level III Std QC+ Forms	<b>"</b>	TRRP Level IV	V				ZCOr	zconder@trcsolutions.com	trcsolu	tions.	com			
2 Day EMERGENCY X Contract TAT		Level	Level 3 (CLP Forms)	П	UST/RG-411	=				ьсос	bcooper@trcsolutions.com	trcsol	tions	com			
3 Day EMERGENCY		TRRP	TRRP Checklist							$\exists$							
TAT Starts Day received by Lab, if received by 5:00 pm										哥	FED-EX / UPS: Tracking #	PS: T	ackin	*		10010201	-
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIEF  Rejinquished by Sampler:    Date Time:	BE DOCUMENTED	BELOW EACH	TIME SAMPLES	CHANGE POSSI	SSION, INCLUD	,,	DELIVERY	J 1		1 h						Mr.	Traver 1
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5 Notice: Notice: Signature of this document and relinquishment of samples constitute a ratiful and		5	7		Custody Seal #	*	פַ	Preserved where applicable	wher	Je appli	cable				\	Cooler Temp.	Thermo. Corr. Factor
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# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 06/30/2018 09:00:00 AM

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

Work Order #: 591008

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sampl	e 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 indicat	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero head	dspace?	N/A
<b>Must be completed for after-hours de</b> Analyst:	livery of samples prior to placing in	the refrigerator
Checklist reviewed by:	Katie Lowe	Date: 07/02/2018
Checklist reviewed by:	Kelsey Brooks	Date: 07/03/2018



# Certificate of Analysis Summary 591014

TRC Solutions, Inc, Midland, TX Project Name: Vanguard Abo SWD #2



**Project Id:** 

**Contact:** Joel Lowry

**Project Location:** Lea County, NM

Date Received in Lab: Sat Jun-30-18 09:00 am

**Report Date:** 10-JUL-18 **Project Manager:** Kelsey Brooks

	Lab Id:	591014-0	01	591014-0	02	591014-0	02	591014-0	24	
	Lab la:	391014-0	01	391014-0	02	391014-0	03	391014-0	J4	
Analysis Requested	Field Id:	NW Floor	@2'	SW Floor	@2'	CE Floor (	@2'	SE Floor 6	@3'	
Anaiysis Kequesieu	Depth:	2- ft		2- ft		2- ft		3- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Jun-28-18 0	9:10	Jun-28-18 (	9:15	Jun-28-18 0	9:20	Jun-28-18 0	9:25	
Chloride by EPA 300	Extracted:	Jul-05-18 1	6:30	Jul-05-18 1	6:30	Jul-05-18 10	5:30	Jul-05-18 10	5:30	
	Analyzed:	Jul-05-18 2	2:32	Jul-05-18 2	2:48	Jul-05-18 22	2:53	Jul-05-18 22	2:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		154	4.97	436	5.00	494	4.97	412	4.96	
TPH by SW8015 Mod	Extracted:	Jul-07-18 0	8:00	Jul-07-18 0	8:00	Jul-07-18 08	8:00	Jul-07-18 08	3:00	
	Analyzed:	Jul-07-18 1	5:25	Jul-08-18 0	8:30	Jul-07-18 1	5:04	Jul-08-18 09	9:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	19.3	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		92.6	15.0	3750	15.0	24.8	15.0	104	15.0	
Oil Range Hydrocarbons (ORO)		26.7	15.0	105	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		119.3	15	3874.3	15	24.8	15	104	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

Kelsey Brooks Project Manager

# **Analytical Report 591014**

# for TRC Solutions, Inc

Project Manager: Joel Lowry
Vanguard Abo SWD #2

10-JUL-18

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

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

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

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

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





10-JUL-18

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

Reference: XENCO Report No(s): 591014

Vanguard Abo SWD #2

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) 591014. 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. 591014 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,

Kunskr

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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# **Sample Cross Reference 591014**



# $TRC\ Solutions, Inc,\ Midland, TX$

Vanguard Abo SWD #2

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
NW Floor @2'	S	06-28-18 09:10	2 ft	591014-001
SW Floor @2'	S	06-28-18 09:15	2 ft	591014-002
CE Floor @2'	S	06-28-18 09:20	2 ft	591014-003
SE Floor @3'	S	06-28-18 09:25	3 ft	591014-004

# XENCO

#### **CASE NARRATIVE**

Client Name: TRC Solutions, Inc Project Name: Vanguard Abo SWD #2

Project ID: Report Date: 10-JUL-18 Work Order Number(s): 591014 Date Received: 06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





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

Vanguard Abo SWD #2

Sample Id: NW Floor @2' Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591014-001 Date Collected: 06.28.18 09.10 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.05.18 16.30 Basis: Wet Weight

Seq Number: 3055724

SCM

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 154
 4.97
 mg/kg
 07.05.18 22.32
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.07.18 08.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.07.18 15.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	92.6	15.0		mg/kg	07.07.18 15.25		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.7	15.0		mg/kg	07.07.18 15.25		1
Total TPH	PHC635	119.3	15		mg/kg	07.07.18 15.25		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	07.07.18 15.25		
o-Terphenyl		84-15-1	100	%	70-135	07.07.18 15.25		





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

Vanguard Abo SWD #2

Sample Id: SW Floor @2' Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591014-002 Date Collected: 06.28.18 09.15 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 07.05.18 16.30 Basis: Wet Weight

Seq Number: 3055724

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 436
 5.00
 mg/kg
 07.05.18 22.48
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.07.18 08.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.3	15.0		mg/kg	07.08.18 08.30		1
Diesel Range Organics (DRO)	C10C28DRO	3750	15.0		mg/kg	07.08.18 08.30		1
Oil Range Hydrocarbons (ORO)	PHCG2835	105	15.0		mg/kg	07.08.18 08.30		1
Total TPH	PHC635	3874.3	15		mg/kg	07.08.18 08.30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	07.08.18 08.30		
o-Terphenyl		84-15-1	130	%	70-135	07.08.18 08.30		





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

Vanguard Abo SWD #2

Sample Id: CE Floor @2' Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591014-003 Date Collected: 06.28.18 09.20 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

SCM % Moisture:

Analyst: SCM Date Prep: 07.05.18 16.30 Basis: Wet Weight

Seq Number: 3055724

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 494
 4.97
 mg/kg
 07.05.18 22.53
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.07.18 08.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.07.18 16.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.8	15.0		mg/kg	07.07.18 16.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.07.18 16.04	U	1
Total TPH	PHC635	24.8	15		mg/kg	07.07.18 16.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	07.07.18 16.04		
o-Terphenyl		84-15-1	100	%	70-135	07.07.18 16.04		





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

Vanguard Abo SWD #2

Sample Id: SE Floor @3' Matrix: Soil Date Received:06.30.18 09.00

Lab Sample Id: 591014-004 Date Collected: 06.28.18 09.25 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

SCM % Moisture:

Analyst: SCM Date Prep: 07.05.18 16.30 Basis: Wet Weight

Seq Number: 3055724

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 412
 4.96
 mg/kg
 07.05.18 22.59
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.07.18 08.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	RL		Units Analysis Date		Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.08.18 09.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	104	15.0		mg/kg	07.08.18 09.28		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.08.18 09.28	U	1
Total TPH	PHC635	104	15		mg/kg	07.08.18 09.28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	07.08.18 09.28		
o-Terphenyl		84-15-1	95	%	70-135	07.08.18 09.28		



## **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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

**DL** Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



#### **QC Summary** 591014

#### TRC Solutions, Inc

Vanguard Abo SWD #2

E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3055724 Matrix: Solid Date Prep: 07.05.18

LCS Sample Id: 7657873-1-BKS LCSD Sample Id: 7657873-1-BSD MB Sample Id: 7657873-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

07.05.18 22:21 Chloride <4.99 250 236 94 244 98 90-110 3 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3055724 Matrix: Soil Date Prep: 07.05.18

Parent Sample Id: 591014-001 MS Sample Id: 591014-001 S MSD Sample Id: 591014-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec

Chloride 154 249 392 96 399 98 90-110 2 20 mg/kg 07.05.18 22:37

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3055724 Matrix: Soil 07.05.18 Date Prep:

MS Sample Id: 591015-007 S MSD Sample Id: 591015-007 SD Parent Sample Id: 591015-007

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec 07.05.18 23:53 Chloride 6.36 246 237 94 249 99 90-110 5 20 mg/kg

Analytical Method: TPH by SW8015 Mod TX1005P Prep Method:

Seq Number: 3055921 Matrix: Solid 07.07.18 Date Prep: MB Sample Id: LCS Sample Id: 7658081-1-BKS LCSD Sample Id: 7658081-1-BSD 7658081-1-BLK

LCS %RPD RPD Limit Units MB Spike LCS LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 07.07.18 10:10 Gasoline Range Hydrocarbons (GRO) 953 95 986 70-135 3 20 <15.0 1000 99 mg/kg 07.07.18 10:10 986 99 1020 70-135 3 20 Diesel Range Organics (DRO) 1000 102 <15.0 mg/kg

MB MB LCS LCSD LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 98 118 117 70-135 % 07.07.18 10:10 108 07.07.18 10:10

107

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

o-Terphenyl

[D] = 100\*(C-A) / BRPD = 200\* | (C-E) / (C+E) |[D] = 100 \* (C) / [B]

105

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

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

E300P

Prep Method:

70-135

%



Seq Number:

o-Terphenyl

#### QC Summary 591014

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

Vanguard Abo SWD #2

107

Analytical Method: TPH by SW8015 Mod

3055921 Matrix: Soil

Parent Sample Id: 591015-001 MS Sample Id: 591015-001 S

Prep Method: TX1005P

70-135

Date Prep: 07.07.18

MSD Sample Id: 591015-001 SD

RPD RPD Limit Units Analysis Flag

07.07.18 11:09

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	970	97	949	95	70-135	2	20	mg/kg	07.07.18 11:09	
Diesel Range Organics (DRO)	59.6	998	1080	102	1060	100	70-135	2	20	mg/kg	07.07.18 11:09	
Surrogate				MS MS %Rec Flag		MSD %Rec			Limits Units		Analysis Date	
1-Chlorooctane			1	19		115		70	0-135	%	07.07.18 11:09	

105



# CHAIN OF CUSTODY

Page 1 Of 1

Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

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

Phoenix, Arizona (480-355-0900)

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Projec	Project Contact: Joel Lowry		51	Invoice:																Meta		t (NN					<b>≨</b> 0	OW =Ocean/Sea Water WI = Wipe	n/Sea	Water
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4	SE Floor @ 3'		<u>ي</u> و	6/28/2018	9:15	s	1														×	×	$\dashv$	$\dashv$						
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# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

**Date/ Time Received:** 06/30/2018 09:00:00 AM

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

Comments

Work Order #: 591014

Temperature Measuring device used: R8

#1 *Temperature of cooler(s)?		.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sampl	e 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 indicate	ed test(s)?	Yes
#16 All samples received within hold time	∍?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de  Analyst:	livery of samples prior to placing in PH Device/Lot#:	n the refrigerator
Checklist completed by:	Matie Lowe	Date: <u>07/02/2018</u>
Checklist reviewed by:	Muny Moah Kelsey Brooks	Date: <u>07/03/2018</u>

Sample Receipt Checklist



# Certificate of Analysis Summary 592670

TRC Solutions, Inc, Midland, TX
Project Name: ABO SWD #2



**Project Id:** 

**Contact:** Joel Lowry

**Project Location:** 

**Date Received in Lab:** Wed Jul-18-18 10:10 am

**Report Date:** 20-JUL-18 **Project Manager:** Kelsey Brooks

	Lab Id:	592670-00	11			
Analysis Requested	Field Id:	SW Floor	r			
Analysis Requesieu	Depth:	3- ft				
	Matrix:	SOIL				
	Sampled:	Jul-17-18 10	0:30			
TPH by SW8015 Mod	Extracted:	Jul-19-18 12	2:00			
	Analyzed:	Jul-19-18 16	5:49			
	Units/RL:	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9			
Diesel Range Organics (DRO)		<14.9	14.9			
Oil Range Hydrocarbons (ORO)		<14.9	14.9			
Total TPH		<14.9	14.9			

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

Kelsey Brooks Project Manager

# **Analytical Report 592670**

# for TRC Solutions, Inc

Project Manager: Joel Lowry
ABO SWD #2

20-JUL-18

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

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

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

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

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





20-JUL-18

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

Reference: XENCO Report No(s): 592670

ABO SWD #2
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) 592670. 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. 592670 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,

Kunska

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 592670**



# $TRC\ Solutions, Inc,\ Midland, TX$

ABO SWD #2

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SW Floor	S	07-17-18 10:30	3 ft	592670-001

# XENCO

#### **CASE NARRATIVE**

Client Name: TRC Solutions, Inc Project Name: ABO SWD #2

Project ID: Report Date: 20-JUL-18 Work Order Number(s): 592670 Date Received: 07/18/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



# **Certificate of Analytical Results 592670**



Wet Weight

Basis:

# TRC Solutions, Inc, Midland, TX

ABO SWD #2

Sample Id: SW Floor Matrix: Soil Date Received:07.18.18 10.10

Lab Sample Id: 592670-001 Date Collected: 07.17.18 10.30 Sample Depth: 3 ft

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

ARM % Moisture:

Analyst: ARM Date Prep: 07.19.18 12.00

Seq Number: 3057120

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	07.19.18 16.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.19.18 16.49		
o-Terphenyl		84-15-1	104	%	70-135	07.19.18 16.49		



# **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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



#### QC Summary 592670

#### TRC Solutions, Inc ABO SWD #2

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3057120Matrix: SolidDate Prep:07.19.18

MB Sample Id: 7658750-1-BLK LCS Sample Id: 7658750-1-BKS LCSD Sample Id: 7658750-1-BSD

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 70-135 07.19.18 13:08 <15.0 1000 958 96 969 97 20 mg/kg Diesel Range Organics (DRO) 986 99 1000 100 70-135 20 07.19.18 13:08 1000 mg/kg <15.0

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Date %Rec Flag Flag %Rec Flag 07.19.18 13:08 1-Chlorooctane 95 122 123 70-135 % o-Terphenyl 101 113 114 70-135 % 07.19.18 13:08

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3057120
 Matrix:
 Soil
 Date Prep:
 07.19.18

 Parent Sample Id:
 592471-001
 MS Sample Id:
 592471-001 S
 MSD Sample Id:
 592471-001 SD

MS MS %RPD RPD Limit Units Parent Spike Limits Analysis **MSD** MSD **Parameter** Result Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) <15.0 998 912 91 923 70-135 20 07.19.18 14:09 92 1 mg/kg 07.19.18 14:09 Diesel Range Organics (DRO) <15.0 998 941 94 957 96 70-135 2 20 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 1-Chlorooctane 124 125 70-135 % 07.19.18 14:09 07.19.18 14:09 o-Terphenyl 112 118 70-135 %

Flag

SXL Buckley John at XENCO   Photos   A SXL PL CALL William   A SXL PL	nailed un					(I) Other (O)	5)			ľ		L											9						,				
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See D D DRYCLEAN Land-Fill Wasse-Disp NDEs DW TRPS See Lab PM Included Call PM).    Container S			-					過			$\dashv$		$\dashv$	+	$\dashv$			+	+	+	+	1	+	$\bot$	_				+				
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Container Type   Preservatives   VOA: Full-List BTEX-MTBE EIOH Oxyg VOHs VOAs   VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:   PAHs SIM 8310 8270   TX-1005 DRO GRO MA EPH MA VPH   SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OCC   Prestrictes PCBs Herbicides OP Pesticides   PCBs Herbicides PCBs Herb			$\int$	+	+		+	+	$\perp$		$\downarrow$	-		1		+		$\perp$	4	+	$\dagger$	-	Ľ	_	₩	0	20	17	4	6		FL	$ \mathcal{C} $
S332, Blackberry Drive, San Antonio, TX 78238 210-509-3334   Lab Only:   SQ 2 6 7	Sample Clean-ups are pre-approved as needed	. 1-4	Addn: PAH above mg/L W, mg/Kg S Highest Hit	TATASAP SIT IZIT ZATI TOTT GE								1	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	OC Pesticides PCBs Herbicides OP Pesticides	1X-1000 DICE CITE IIII	7,410		VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs		Container Size	IN COL NAVE THE	Grab Call Call DW DW T	Composite C D D No No No No No No No No No No No No No		Depth PM Report	J. No Was DOE ee La	F	MDLs MDLs amplin	A, LA, L		N, UT to Account on trace on t	Proj. State: TX, NJ, PA, SC, TN, E-mail Results to E-mail Results to E-mail Results to E-mail Results to E-mail Results to E-mail Reg Program:  QAPP Per-Cor  QAPP Per-Cor  Special DLs (C	Proj. State: NJ, PA, SC, E-mail Resu  Proj. Sc. E-mail Resu  Proj. Sc.  Reg Proj.  Reg Progra  QAPP Per  Special DL  Sampler No
□ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone  Lab Only:  □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comp. Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comm.  Phone □ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 □ 12000 West F20 Comm.  Phone □ 5332. □ 53	Doma	<b>-</b>   is	/ data	and IV	/el Ⅲ ;	for lev	Standa days t	21d s	10d 1 Wc	7d 1	vel II	3h 3c		h 24 rking	h 12 7 Wo	JAP 5	ypica	TAT It is		ō	oject	P	S		XENC	ne at	ously do	Previ	1	フリ	Local	Project Name	ject Na
☐ 5332. Blackberry Drive, San Antonio, TX 78238 210-509-3334 ☐ 1/2000 West 1/20 Cooper (1997)		<b>片</b>	6	5	1												Only	Lab		9	143	1	one	\ <b>\</b> ∃	7 7	5				7		Company-City	janj
4143 Greenbriar Drive, Stationa, 1X 7/4/7 201-249-249 1200 West 1-20 East Odessa, TX 79765 432-563-1800 Serial #:	-	Pag	í	C	16	بار	rial #:	Se	1800	2-563-	1	( 79765	sa, Tx	t, Odes	0 East	/est I-2	≥600 W	□ [ 5			-3334	10-509			tonio, T.	san Ant	ar Drive, t	Blackber	4143 c 5332, I		8		

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO#:

Manifest#: NA

38

Manif. Date; 6/22/2018

Hauler: Driver M MATA TRUCKING LLC SAUL

Driver Truck#

Card# Job Ref# Ticket #: Bid #: Date: 700-904873 Walk-in Bid 6/22/2018 VANGUARD

Generator: Generator #:

Well Ser, #: 03849

Well Name:

ABO SWD ROC

Well#: Field:

Field #: Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pH CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight

Lab Analysis: 50/51 0.00 0.00 0.00 0

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

\_\_\_\_\_ MSDS Information \_\_\_\_\_ RCRA Hazardous Waste Analysis \_\_\_\_\_ Process Knowledge \_\_\_\_\_ Other (Provide description above)

Driveri Agent Signatu	rø
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Sow Manetice

R360 Representative Signature

**Customer Approval** 

Approved By:	Date	• •
		*

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88741	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chack Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) MMata	Name: Juan Galaure Signature: 472 Date: 6/2)//8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Market Signature: M
	ct Bill: Vanguard Operating, LLC re Of: Kvle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830
Ordered by: CHUCK JOHNSTON

AFE#:

PO#:

Manifest#: NA

Manif. Date: 6/22/2018

6/22/2018 M MATA TRUCKING LLC

Hauler: Driver

JUAN 39

Truck # Card # Job Réf# Ticket #: Bid #: 700-904874 Walk-in Bid

Date: Generator: 6/22/2018 VANGUARD

Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field: Field #:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI											
Product / Serv	rice					Q	uantity Uni	ts	•		
Contaminated	Soil (R	CRA Exe	mpt)				20.00 ya	rds			
	Celi	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0	······································					
Generator Cer I hereby certify t									e e e e e e e e e e e e e e e e e e e		
1988 regulatory  X RCRA Exen  RCRA Non- characteristics es  amended. The fi  MSDS Infor  Driver/ Agent	npt: Oil F Exempt: stablished allowing mation	ield waste Oil field v in RCRA documentsRCRA	s generated vaste which regulation ation is atta	l from oil ar i is non-haz s, 40 CFR 2 ched to den	nd gas explora ardous that do 61.21-261.24 on nonstrate the a alysis P	es not exc or listed h above-des rocess Kn	ceed the minit azardous was cribed waste i	mum standard te as defined is non-hazard Other (Prov	is for waste in 40 CFR, ous. (Chec	hazardous part 261, s k the appro	by ubpart D, as priate items):
Customer App	proval	7			men en	77/	<u> </u>		ţ		
				THIS	IS NOT	AN II	VOICE	1			

pproved By:		Date: _	
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:  E&P EXEMPT IMPACTED SOIL  VOLUME:		
FACILITY CONTACT: Chuel Johnston Kyle Zimmerman Vanguard Operating, LLC. 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CALJAA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATA Trucking  BOLLY DUMP  TRUCK # 150		Name: Julo Signature: # 4  Date: 6 - 71 - 18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: T. Marinu?  Date: 422 18
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Lab Analysis: 50/51

ENVIRONMENTAL SOLUTIONS Permian Basin	6		Order AFE # PO #: Manif	mer#: ed by; f: est#: . Date: r: #	CRI58 CHUC NA 6/22/2	30 K JOH 018	PERMIA NSTON CKING		Ticket #: Bid #: Date: Generator: Generator # Well Ser. #: Well Name: Well #: Field; Field #: Rig: County	03849	Bid B RD D ROC LLING
Facility: CRI											
Product / Service							(	Quantity (	Jnits		
Contaminated Soll	(RC	RA Exemp	ot)						yards		
Cel	il	рΗ	CL	Conc	-t 0/_	Salide	The	DOUGL		LID CO.	n/ ^

Generator Certification	Statement	of Waste 5	Status
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рΗ

0.00

CI

0.00

Cond.

0.00

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

TDS

PCI/GM

MR/HR

H2S

% Oil

Weight

%Solids

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 13, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_ Other (Provide description above)

		٠.,
Oriver/ Agent Signature	R360 Representative Signature	
	- iff (	
Sustomer Approval		•

Approved By:	Date:	····,
F. T.		

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R366 Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS:  M Meta Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chack Johns ton Kylo Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	51gnature: <i>Ohlph4</i> Date: 6-50-18
NAME OF TRANSPORTER JORIVER) M Mata Trois  439 20 yard  Twek #12	King Adrian G Name: Josephure Signature: App
	bate: 6/2)//
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Cerlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature:
	Date: UZUK
	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI6830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

> Manifest #: NA

Manif, Date: 6/22/2018

12

Hauler: Driver

M MATA TRUCKING LLC ADRIAN

Truck#

Card # Job Ref#

Ticket #: Bid #: Date:

700-904911 Walk-in Bid 6/22/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

% Oil Weight.

Cell Lab Analysis: 50/51

0.00 0.00 Cond. 0.00

%Solids

TDS

PCI/GM MR/HR H2S

**Generator Certification Statement of Waste Status** 

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/	Agent	Signatu	IΓΑ
		widilait	110

**Customer Approval** 

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By: Date:

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johns for Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M MATA Tro	ching
NAME OF TRANSPORTER: (DRIVER) MMata Tro	Name: Juan Galaurz Signature: 1310 Date: 6/2///
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MADA
• Direct Bill Care Of	



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

JUAN

39

AFE #:

PO #:

Manifest #:

Manif, Date: 6/22/2018 Hauler:

M MATA TRUCKING LLC

Driver

Truck# Card # Job Ref# Ticket#: Bid #:

700-904913 Walk-in Bid

Date: 6/22/2018 Generator; VANGUARD

Generator #:

Well Ser. #:

03849 Well Name: ABO SWD ROC

Well#: 002

Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

\*acility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI Cond. %Solids TDS PCI/GM MR/HR H28 % Oil Weight .ab Analysis: 50/51 0.00 0.00 0.00 ō

# **3enerator Certification Statement of Waste Status**

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart ID, us mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information BCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

)river/ Agent Signature

R360 Refresentative Signature

:ustomer Approva

pproved By.	Date:	
, <b>*</b>		



Customer: VANGUARD PERMIAN

Customer#; CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO#: Manifest #:

NΑ Manif, Date: 6/22/2018

Hauler:

M MATA TRUCKING LLC

Driver Truck #

Card # Job Ref# Ticket #: Bid #:

Date:

700-904916 Walk-in Bid 6/22/2018 **VANGUARD** 

Generator: Generator #;

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #:

Rig,

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Нq CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

# Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_MSDS Information \_\_RCRA Hazardous Waste Analysis \_\_Process Knowledge \_\_Other (Provide description above)

Driver/ Agent Signatu	re
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R360 Representative Signature

**Customer Approval** 

opproved By:	Date:	
	Date:	

# TRANSPORTER'S MANIFEST SHIPPERS FACILITY NAME AND ADDRESS: LOCATION OF MATERIAL: Vanguard Operating, LLC Site: ABO SWD #2 4001 Penbrook, Suite 201, Odessa, TX 79762 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849 TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263. Hobbs, NM, 88241 DESCRIPTION OF WASTE: **E&P EXEMPT IMPACTED SOIL** VOLUME:\_\_\_\_ FACILITY CONTACT: Chek Johnston Signature: 4 Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762 Date: MAME OF TRANSPORTER: (DRIVER) M. MATHA J RUCKING Bolly Dump Truck # 150 DISPOSAL SITE: R360 Halfway Facility 4507 W Carlshad Hwy PO Box 388 Hobbs, NM 88241

Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		**************************************
DESCRIPTION OF WASTE:	**************************************	
E&P EXEMPT IMPACTED SOIL		
VOLUME: 20		
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762		5ignature: <i>ChiphA</i> Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATA TOVCKING  BOLLY DUMP  TOWCK # +50		Name: Julo Signature: 4 1 1 8
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	-	Signature: T. Mulinu7  Date: U22 18
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



VANGUARD PERMIAN Customer:

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

LALO

150

AFE #: PO#:

Manifest #:

NA Manif. Date: 6/22/2018

Hauler: Driver

M MATA TRUCKING LLC

Truck#

Card # Job Ref# Ticket #: Bid #: Date:

700-904919 Walk-in Bid 6/22/2018 **VANGUARD** 

Generator: Generator #1

Well Ser. #:

03849 Well Name: ABO SWD ROC

Well#: 002

Field:

Field #:

Rig: NON-DRILLING County LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pН CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 Ö

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart ID, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	

Approved By:		Date:	
	Z-1-		



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Manifest #:

Manif. Date: 6/25/2018

Hauler:

M MATA TRUCKING LLC

**MAUL** Driver Truck# 39

Card# Job Ref# Ticket #: 700-905527 Bid #: Walk-in Bid 6/25/2018 Date:

Generator: VANGUARD Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: Field:

002

Field #:

Rig.

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell ρH CI %Solids Cond. TDS PCI/GM MR/HR H<sub>2</sub>S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast \_\_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ Bera Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

Driver/ Agent Signature	
111100	
V	

R360 Representative Signature

**Customer Approval** 

Approved By: _		Date:
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SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL  VOLUME:	
FACILITY CONTACT: Chek Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Chiffee  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) MM MATE	Name: Juan Galaurz Signatura: 130 Date: 6/2///
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: JW (V) Date: U/74 (V)
<b>*</b>	Direct Bill: Vanguard Operating, LLC  Care Of: Kyle Zimmerman



VANGUARD PERMIAN Customer: Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

**ADRIAN** 

12

AFE#: PO #

Manifest #:

Manif. Date: 6/25/2018 Hauler: M MATA TRUCKING LLC

Driver Truck#

Card # Job Ref#

700-905528 Ticket #: Bid #: Date: Generator:

Walk-in Bid 6/25/2018 **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

County

Rig:

NON-DRILLING LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

PCI/GM MR/HR H2S % Oil Weight %Solids TDS Cell CI Cond. 0.00 Lab Analysis: 50/51 0.00 0.00

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt; Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): iption above)

MSDS Information RCRA Hazardous V	Vaste Analysis Process Knowledge Other (Provide descr
Driver/ Agent Signature	R360 Representative Signature
Allown /	
Customer Approval	•

Approved By:		Date:
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	i i
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL: Site: ABO SWD #2
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWO #2 Legals: UL."C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VQLUME:	
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	51gnature:
NAME OF TRANSPORTER IDRIVER MM AT &  ##39 20 1/06d  Tweek #12	Name: Josephanic Signature 178 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: JMCLUS
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman
	A CONTRACTOR OF THE CONTRACTOR



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

LALO

150

AFE #: PO#:

Manifest #: 310396 Manif. Date: 6/25/2018

Hauler:

M MATA TRUCKING LLC

Driver Truck #

Card # Job Ref#

Ticket #: 700-905529 Bid #: Walk-in Bid Date: 6/25/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name:

ABO SWD ROC

Well#: Field:

002

Field #:

Ria:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20,00 yards

Cell CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 ō

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

 MSDS Information	RCRA Hazardous Waste A	analysis Proc	cess Knowledge	Other (	Provide descr	iption above

Driver	/ Ageni	t Signature
--------	---------	-------------

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Date:



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Angle Service Control of the Control		GENERAT	<u> </u>	rnone	1979
5		GENERAL	UK	NO. :	310396
Operator No.	and the		Permit/RRC No.		
Operators Name	mara Ketim	l UM	Lease/Weli Name & No.	ABO SW	N KW MM
Address	0	Min M. Bertimannaga and M. A. Coppers		1100 300	100 002
The state of the s	MINISTER 111111111111111111111111111111111111	<del>4-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	County	4 II. I	***************************************
City, State, Zip		**************************************	API No.		
	Marie 1997 1997 1997 1997 1997 1997 1997 199		Rig Name & No.	At 100 100 100 100 100 100 100 100 100 10	
Phone No.		***************************************	AFE/PO No.		
EXE	MPT E&P Waste/Service Ide	ntification and Amount (place v	olume next to v	vaste type in barrels or rub	rvaniel
On Dando Midda	NON-INJECTABL	E WATERS		INJECTABLE WATERS	2 yardaj
Oll Based Cuttings Water Based Muds	Washout Water	(Non-Injectable)		Washout Water (Injectable)	
Water Based Cuttings	Produced Water	d/Flow back (Non-Injectable) r (Non-Injectable)	·	Completion Fluid/Flow back	
Produced Formation Solids		Vater/Waste (Non-Injectable)		Produced Water (Injectable) Gathering Line Water/Waste	
Tank Bottoms E&P Contaminated Soil	INTERNAL USE C	INLY		OTHER EXEMPT WASTES (typ	and generation process of the waste)
Gas Plant Waste	Truck Washout (	exempt waste)			
WASTE GENERATION PROCESS:	DRILLING	COMPLETION			
		COMPLETION	<u> </u>	PRODUCTION	GATHERING LINES
* d	Ne	ON-EXEMPT E&P Waste/Service Idea	itification and Am	ount	
Non-Exempt Other	-caempt ear waste must be ana	lysed and be below the threshold lim			
non exempt office			*please select fr	om Non-Exempt Waste List a	ı back
QUANTITY		B - BARRELS	L - LIQUID		
I haraby cartifut hat assessing a series				(Y-YARD)	E - EACH
I hereby certify that according to the Re load is (Check the appropriate classifica	isource Conservation and Recove	ry Act (RCRA) and the US Environme	ntal Protection Ag	gency's July 1988 regulatory det	ermination, the above described waste
EMERGENCY NON-OILFEILD: Em	ergency non-hazradous, non-oilfe	RCRA Hazardous Waste Analysis eld waste that has been ordered by the waste must accompany this form)	the Department or	Other (Provide Description Be f Public Safety (the order, docu	
(PRINT) AUTHORIZED AGENTS HAM					
(PRINT) AUTHORIZED MGERTS NAM		8	TE		SIGNATURE
		TRANSPORT	ER		
Transporter's Vame	MA	1	Dríver's Name	101-	
Address	KILL	<del>*************************************</del>		<u> caro</u>	
***************************************	**************************************		rint Name	······································	
Phone No.		<del></del>	hone No.		
		7	ruck No.	11-1 7	
nereby certify that the above named ma	anadululul. 11 i			150	
	areman(s) was/were picked up at t			incident to the disposal facility	listed below.
***************************************		he Generator's site listed above and	delivered without	incident to the disposal facility	,
SHIPMENT DATE	ORIVER'S SKINATURE	he Generator's site listed above and	delivered without	18 Y #	listed below.  GRUPEDO CONNECTOR
SHIPMENT DATE TRUCK TIME	ORIVER'S SKINATURE	he Generator's site listed above and	delivered without	Y DATE X Z	ORIVER'S SIGNATURE
SHIPMENT DATE TRUCK TIME	ORIVER'S SIGNATURE STAMP		delivered without	RECEI	COURTO CONNE
SHIPMENT DATE  TRUCK TIME  N: OL	ORIVER'S SIGNATURE STAMP	he Generator's site listed above and	delivered without	Y DATE X Z	ORIVER'S SIGNATURE
TRUCK TIME  TRUCK TIME  N: OL  (te Name/ ermit No. Halfway Facility / NM1	ORIVER'S SYMATURE  STAMP  JT:	the Generator's site listed above and	delivered without	RECEI Name/No.	ORIVER'S SIGNATURE
TRUCK TIME  TRUCK TIME  N: OL  (te Name/ ermit No. Halfway Facility / NM1	ORIVER'S SYMATURE  STAMP  JT:  -006	the Generator's site listed above and	delivered without	RECEI	ORIVER'S SIGNATURE
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1	ORIVER'S SKINATURE  STAMP  JT:  -006  2/180 Mile Marker 66 Carlsbad, N.	DISPOSAL FAC	delivered without  (0 25-  OELIVER  ILITY  hone No.	RECEI Name/No.	VING AREA  DIST
TRUCK TIME  N: OL  Ste Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62	ORIVER'S SCINATURE  STAMP  JT:  -006 2/180 Mile Marker 66 Carlsbad, No. 2 (Circle One)  YES	DISPOSAL FAC	delivered without  O 25-  DELIVER  ILITY  thone No.	RECEI Name/No.	VING AREA  DIST
TRUCK TIME  N: OL  Site Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN?	ORIVER'S SCINATURE  STAMP  JT:  -006 2/180 Mile Merker 66 Carisbad, N. 2 (Circle One)  YES	DISPOSAL FAC	delivered without  O STORY  OELIVER  ILITY  thone No.	RECEI Name/No.	ORIVER'S SIGNATURE VING AREA A) (51
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 67  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carlsbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC	delivered without  O 25-  DELIVER  ILITY  thone No.	RECEI Name/No.	ORIVER'S SIGNATURE VING AREA A) (51
TRUCK TIME  TRUCK TIME  N: OL  its Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 67  NORM READINGS TAKEN? PASS THE PAINT FILTER TEST?  Feet	ORIVER'S SCINATURE  STAMP  JT:  -006 2/180 Mile Marker 66 Carlsbad, No. 2 (Circle One)  YES	DISPOSAL FAC	delivered without  O ELIVER  ILITY  hone No.  I YES, was reading	RECEI Name/No. 575-393-1079	ORIVER'S SIGNATURE VING AREA A) (51
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 67  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carlsbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC	delivered without  O ELIVER  ILITY  hone No.  I YES, was reading	RECEINAME/No.  575-393-1079  3 > 50 micro roentgens? (circle of the circle of the circ	ORIVER'S SIGNATURE VING AREA A) (51
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ errnit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN? PASS THE PAINT FILTER TEST?  Feat  C Gauge and Gauge	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carlsbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC	delivered without  O ELIVER  ILITY  hone No.  I YES, was reading	RECEINAME/No.  575-393-1079  3 > 50 micro roentgens? (circle of the circle of the circ	VENUE DAVINE VING AREA  AD ASI  ONE) YES  OOD  OOD  OOD  OOD  OOD  OOD  OOD  O
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?  Feet  Grounge and Gauge eccived	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carisbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC	delivered without  O ELIVER  ILITY  hone No.  I YES, was reading	RECEINAME/No.  575-393-1079  3 > 50 micro roentgens? (circle of the circle of the circ	VENUE DAVINE VING AREA  AD ASI  ONE) YES  OOD  OOD  OOD  OOD  OOD  OOD  OOD  O
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?  Feet  T Gauge and Gauge eccived	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carlsbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC  M 88220  TANK BOTTO	delivered without  O ELIVER  ILITY  hone No.  I YES, was reading	RECEINAME/No.  575-393-1079  3 > 50 micro roentgens? (circle of the circle of the circ	VENUE DAVINE VING AREA  AD ASI  ONE) YES  OOD  OOD  OOD  OOD  OOD  OOD  OOD  O
TRUCK TIME  TRUCK TIME  N: OL  ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?  Feet  Gauge eccived	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carisbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC  M 88220  TANK BOTTO	delivered without  OELIVER  ILLITY  hone No.  If YES, was reading	RECEINAME/No.  575-393-1079  3 > 50 micro roentgens? (circle of the circle of the circ	VENUE DAVINE VING AREA  AD ASI  ONE) YES  OOD  OOD  OOD  OOD  OOD  OOD  OOD  O
TRUCK TIME  TRUCK TIME  N: OL  Ite Name/ ermit No. Halfway Facility / NM1 ddress 6601 Hobbs Hwy US 62  NORM READINGS TAKEN?  PASS THE PAINT FILTER TEST?  Feet  Gauge eccived	ORIVER'S SYNATURE  STAMP  JT:  -006  2/180 Mile Merker 66 Carisbad, N.  2 (Circle One)  YES  (Circle One)  YES	DISPOSAL FAC  M 88220  TANK BOTTO  S  ACCEPTED DENIED	DELIVER  ILITY  hone No.  F YES, was reading  MS  BSEV	RECEIName/No.  755-393-1079  750 micro roentgens7 (circle of the control of the c	VING AREA  DIGHT  VING AREA  DIGHT  One) YES



VANGUARD PERMIAN Customer: Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: NA Manif, Date: 6/25/2018

Hauler:

M MATA TRUCKING LLC

Driver SAUL 38 Truck #

Card # Job Ref# Ticket #: 700-905532 Bid #: Walk-in Bid Date: 6/25/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

County

Ria:

NON-DRILLING LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00

# **Benerator Certification Statement of Waste Status**

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as imended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

	Signature

R360 Representative Signature

**Sustomer Approval** 

Approved By:	 Date:	
	Date.	

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWO #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241			
DESCRIPTION OF WASTE:	······································	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
E&P EXEMPT IMPACTED SOIL			
VOLUME:			
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>OHJA</i> Date: <u>6-30-18</u>	
NAME OF TRANSPORTER: (DRIVER)  M. MATA TRUCKING  BELLY DUMP  THUR # 150  38		Name: Fall Saul Signature: E-7 Date: G-21-18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241	·	Signature: 12018	
	Direct Bill: Care Of:	Vanguard Operating, LLC Kvie Zimmerman	



MEWBOURNE OIL CO Customer: Customer#: CRI4110

HECTOR

Ordered by: AMBER GROVE

AFE#: PO #

Manifest #: Manif. Date: 6/22/2018

Hauler: M MATA TRUCKING LLC

Driver Truck #

Job Ref#

30 Card #

700-905536

Bid #: Date:

Ticket #

O6UJ9A000BEJ 6/25/2018

MEWBOURNE OIL CO Generator:

Generator #:

Well Ser. #: 42708

Well Name:

FORTY NINER RIDGE UNIT

Well#: Field:

103H

Field #:

Rig: County

NON-DRILLING EDDY (NM)

H2S

Facility: CRI

Product / Service

Quantity Units

PCI/GM

Contaminated Soil (RCRA Exempt)

20.00 vards

Cell CI Cond. %Solids Lab Analysis: 50/51 0.00 0.00 0.00

MR/HR

% Oil Weight

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

TDS

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste \_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Drivar	1 Amant	Signatura

R360 Representative Signature

Customer Approval

Approved By:	Date	***************************************
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Plains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701		Site: Legals: Location: API;	Mewbourne Forty Niner Ridge Unit 103H UL "O" Sec. 22, T23S, R30E Eddy Co, NM SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241			Constitution of the second of
DESCRIPTION OF WASTE:	······		
VOLUME: O			
FACILITY CONTACT:			Parla front > ?
Amber Groves		Signature:	Munda Mone
Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220		Date:	6/55/2018
NAME OF TRANSPORTER: (CRIVER)	***		
		Signature:	71+1B -22-18
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	Mariana da Mariana (generagan	Signaturet	1. Donzaliz
		Date: <u>U</u>	-22-18
	Direct Bill: Care Oi.	Plains Mark Amber Gro	



Chamor	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Bid #:	700-905556 Walk-in Bid 6/25/2018 VANGUARD	
AFE #: PO #: Manifest #:		Generator#	03849 ABO SWD R	

Well Name: ABO SWD ROC Manif. Date: 6/25/2018 002 M MATA TRUCKING LLC Well#: Hauler: Field: JUAN Driver Field #: 39 NON-DRILLING Truck # Rig: LEA (NM) Card# County Job Ref#

	Job Ref	#							
Facility: CRI  Product / Service  Contaminated Soil (RCRA Example)  Cell pH  Lab Analysis: 50/51 0.00	0.00	Cond. 0.00	%Solids	TDS	uantity Unit 20.00 ya PCI/GM	rds MR/HR	H2\$	% Oil	Weight
Generator Certification State I hereby certify that according to 1988 regulatory determination, the X RCRA Exempt: Oil Field ware RCRA Non-Exempt: Oil field characteristics established in RC amended. The following document of the following document of	stes generated id waste which	from oil a is non-ha	and gas explora zardous that do 261.21-261.24 emonstrate the Analysis I	ation and oes not ex or listed above-de Process R	cced the min hazardous wa	imum standa ste as define is non-haza Other (Pr	rds for was d in 40 CFI	te hazardou R, part 261, ack the appr	is by subpart D, as opriate items):
Customer Approval THIS IS NOT AN INVOICE!									
Approved By:		and the second s	يومده في ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و ويومدون و و		Date:	<u> </u>		·····	

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Off flat  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M Mata Tra #39 20 1/06d	Name: Juan Galaure Signature: 439 Date: 6/2///
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Market Signature: M
Direct Bill: Care Of:	~

· Y



VANGUARD PERMIAN Customer: Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

ADRIAN

12

AFE #: PO#

Manifest#: NA Manif. Date: 6/25/2018 M MATA TRUCKING LLC

Hauler: Driver

Truck # Card# Job Ref#

Ticket #: 700-905557 Bid #: Walk-in Bid Date: 6/25/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #:

Ria:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Ηđ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

# Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wastern \_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/	Agent	Signature
	~	7

R360 Representative Signature

Customer Approval

Approved By:	Date:	
		*

# TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:  Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		LOCATION OF MATERIAL:  Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	***************************************	
DESCRIPTION OF WASTE:  E&P EXEMPT IMPACTED 50!L  VOLUME:	<del></del>	
FACILITY CONTACT: Chack Johnston Kyle-Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762  NAME OF TRANSPORTER (DRIVER)  Mara  139 20 1/06d  Truck #12	Tro	Signature: Old Address G. Signature: Signatu
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	M	Signature: MA
D	irect Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO #: Manifest #:

Manifest #: 310400 Manif. Date: 6/25/2018

LALO

150

Hauler: M MATA TRUCKING LLC

Driver Truck#

Card # Job Ref # Ticket #: Bid #: Date: 700-905563 Walk-in Bid 6/25/2018

Generator: VANGUARD Generator #

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #; Field: 002

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pH CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 0

### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

Driver/ Agent Signature	R360 Representative Signature
	- CAONC
Customer Approval	

Customer Approvat

Approved By:	Control of the Contro	Date:	
	7		



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information Name CHUCK Johnston

Phone No. GENERATOR NO. 310400 Operator No Permit/RRC No. Lease/Well Rive cook Operators Name ABOName & No. Address County API No. City, State, Zip Rig Name & No. Phone No. AFF/PO No EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards) Oil Based Midds NON-INJECTABLE WATERS Oil Based Cuttings Washout Water (Non-Injectable) Washout Water (Injectable) Water Based Muds Completion Fluid/Flow back (Non-Injectable) Completion Fluid/Flow back (injectable) Water Based Cuttings Produced Water (Non-Injectable) Produced Water (Injectable) Produced Formation Solids Gathering Line Water/Waste (Non-Injectable) Gathering Line Water/Waste (Injectable) Tank Bottoms INTERNAL USE ONLY OTHER EXEMPT WASTES (type and generation process of the waste) E&P Contaminated Soil 20 Truck Washout (exempt waste) Gas Plant Waste WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION **GATHERING LINES** NON-EXEMPT E&P Waste/Service Identification and Amount All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity, Non-Exempt Other \*please select from Non-Exempt Waste List on back QUANTITY **B - BARRELS** L-LIQUID E - EACH I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) Oil field wastes generated from oil and gas exploration and production operations and are not mixed with eon-exempt waste (R360 Accepts certifications on a per load basis only) Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR - RCRA NON-EXEMPT: 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as nonhazardous is attached. (Check the appropriate items as provided) RCRA Hazardous Waste Analysis Other (Provide Description Below) EMERGENCY NON-DILFEILD: Emergency non-hazradous, non-oilfelld waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form) TRANSPORTER Transporter's Driver's Name Name Address Print Name Phone Na. Phone No. Truck No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed by -25-18 SHIPMENT DATE ORIVER'S SIGNATURE CELIVERY DATE TRUCK TIME STAMP RECEIVING AREA IN: OUT: Name/No. Co/5/ Site Name Phone No. Halfway Facility / NM1-006 Permit No 575-393-1079 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 В NORM READINGS TAKEN? (Circle One) If YES, was reading > 50 micro roentgens? (circle one) a PASS THE PAINT FILTER TEST? (Circle One) IANK BUTTOMS inches 1st Gauge 85&W/BBLS Received 85&W (%) 2nd Gauge Free Wate Received Total Received I her by certify that the above load material has been (circle one): ACCEPTED if denied, why?

SIGNATURE



Customer:	VANGUARD	PERMIAI
Justoniel.	1/11/00/11/0	1 1-1 11411/31

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Manifest #: NA

Manif. Date: 6/25/2018

Hauler:

M MATA TRUCKING LLC

Driver JUAN
Truck # 38

Card # Job Ref# Ticket #:

700-905565

Bid #: Date: Walk-in Bid 6/25/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name:

ABO SWD ROC

Well #: 002

Field:

Rig:

Field #:

NON-DRILLING

County

LEA (NM)

acility: CRI

roduct / Service

**Quantity Units** 

ontaminated Soil (RCRA Exempt)

20.00 yards

 Cell
 pH
 Cl
 Cond.
 %Solids
 TDS
 PCI/GM
 MR/HR
 H2S
 % Oil
 Weight

 ab Analysis:
 50/51
 0.00
 0.00
 0
 0

#### ienerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by naracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information \_\_\_\_RCRA Hazardous Waste Analysis \_\_\_\_ Process Knowledge \_\_\_\_ Other (Provide description above)

R360 Representative Signature

riveri Agent Signati	ıre
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Soul Meringhere pAM

ustomer Approval

pproved By:	Date:	pa-a-t-
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100

### TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R35E Location: Lea Co, NM API: 30-025-03849	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241  DESCRIPTION OF WASTE:			
E&P EXEMPT IMPACTED SOIL  VOLUME:			
FACILITY CONTACT: Chick Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA  Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M. MATA TRUCKING BOLLY DUMP TRUCK # 150 38		Name: Fall Saul  Signature: FT  Date: 6-21-18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: Date: U2018	)
	Direct 8ill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	



Customer: MEWBOURNE OIL CO

Customer #: CRI4110 Ordered by: AMBER GROVE

30

AFE#: PO #:

Manifest #: NA Manif, Date: 6/25/2018

Hauler: M MATA TRUCKING LLC Driver **HECTOR** 

Truck #

Card # Job Ref# Ticket #: Bid #:

700-905611 O6UJ9A000BEJ

Date:

6/25/2018

MEWBOURNE OIL CO Generator:

Generator #:

Well Ser. #: 42708

Well Name: FORTY NINER RIDGE UNIT 103H

Well#: Field:

Field #:

Rig: County

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 vards

Cell ĊΙ Cond. %Solids TDS PCI/GM MR/HR H<sub>2</sub>S % Oil Weight Lab Analysis: 50/51 0.00 0 00 0.00

# Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

	OH 000
Driver/Agent Signature	
Driver/Agent Signature R360 Representative Signature	
Customer Approval	
- 1997年の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の	1 - 1

Approved By: Date:	
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### TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Plains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701		Site: Legals: Location: API:	Mewbourne Forty Niner Ridge Unit 103H UL "O" Sec. 22, T23S, R30E Eddy Co, NM SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		,	
DESCRIPTION OF WASTE:	***************************************	<u>, deptivitor, delegido, forificato austribia</u>	
E&P EXEMPT IMPACTED SOIL VOLUME: 3.0		٠,	· · · · · · · · · · · · · · · · · · ·
FACILITY CONTACT:  Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220		Signature Date:	1/31/308 6/22/20/8
NAME OF TRANSPORTER: (GRIVER)		Signature	12ctor B -7/4/B -27-18
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220		Signature	J. Donzalz SW
		Date:	J. L. Unitaliz
D	irect Bill: Care Of:	Plains Ma Amber Gr	
			•



<sup>2</sup>ermian Basin

PO #: Manifest#: NA

Customer #: CRI4110

Manif. Date: 6/25/2018 Hauler:

Customer:

AFE #:

M MATA TRUCKING LLC 'HECTOR

Ordered by: AMBER GROVES

Truck #

Card # Job Ref#

Driver

Ticket #: 700-905664 Bid #: O6UJ9A000BEJ

Date:

6/25/2018

Generator: MEWBOURNE OIL CO Generator #:

Well Ser. #: 42708

Well Name: FORTY NINER RIDGE UNIT 103H

Well#: Field:

Field #:

NON-DRILLING

Rig: County

EDDY (NM)

facility: CRI

Product / Service

**Quantity Units** 

医水头头 医枕线性动脉 化抗霉素

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight .ab Analysis: 50/51 0.00 0.00 0.00

MEWBOURNE OIL CO

Senerator	Certificat	ion State	ment of	Waste Sta	tus

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge Other (Provide description above)

)river/ Agen	t Signature
--------------	-------------

R360 Representative Signature

Sustomer Approval

opproved By:	Date:	



VANGUARD PERMIAN Customer: Customer#: CRI5830

Ordered by: CHUCK JOHNSTONQ

AFE #: PO #:

Manifest #: 310429 Manif, Date: 6/25/2018

Hauler: Driver

M MATA TRUCKING LLC SAUL 38

Truck # Card # Job Ref# Ticket #: Bid #:

Date:

700-905679 Walk-in Bid 6/25/2018

Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

Driver/ Agent Signature	R360 Rej	resentative Sig	mature
Customer Approval			And the state of t

Approved By:	•	Date:	****



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Compley, Man Cont.	et lafouration
Name WCC	י <i>עוטיא</i> יזטו

	***************************************	****		Augusta Santa S		Phone N	o
				GENERAT	OR	NO.	310429
Operator No.	I MANA A	n) ex			Permit/RRC No.		~ _ ^ _ ^
Operators Name	1 1411(11)(11)	W()			Lease/Well	A BO SII	$D \mathcal{D}$
Address	7 17 16 17 17 1		<del></del>		Name & No.	110000	
11000,443					County	***************************************	
City, State, Zip			***************************************		API No.	***************************************	
Phane No.					Rig Name & No.	**************************************	***************************************
rhane No.					AFE/PO Na.	***************************************	
512 IV	EXEMPT E&P \	Waste/Service Id	entification and	Amount (place v	olume next to w	aste type in barrels or cubic	vards)
Oil Based Muds Oil Based Cuttings	***************************************	NON-INJECTAB	SLE WATERS			INJECTABLE WATERS	
Water Based Muds	***************************************	Completion Flu	er (Non-Injectable) vid/Flow back (Non-	-iniaetzhiai		Washout Water (Injectable)	
Water Based Cuttings		Produced Wate	er (Non-Injectable)		***************************************	Completion Fluid/Flow back (li Produced Water (Injectable)	njertabio)
Produced Formation Solids Tank Bottoms		Gathering Line	Water/Waste (Nor	n-Injectable)		Gathering Line Water/Waste (	injectable)
E&P Contaminated Soil	20	INTERNAL USE Truck Washout	(exempt waste)	**************************************		OTHER EXEMPT WASTES (type a	nd generation process of the waste)
Gas Plant Waste			(analysis)		***************************************		
WASTE GENERATION PF	ROCESS:	DRILLING		COMPLETION		PRODUCTION	GATHERING LINES
		٨	VON-EXEMPT E&P \	Waste/Service Iden	tification and Arno		
	All non-exempt E&F	waste must be an	alysed and be belo	w the threshold lim	its for toxicity (TCL	unt  P), ignitability, Corrosivity and Re	eactivity.
Non-Exempt Other	W-1447					m Non-Exempt Waste List on b	
QUANTITY			8 - BARRELS		E-LIQUID		
I hereby certify that accordi	ng to the Resource Cook	souties and Seem			-	Y - YAROS	E - EACH
load is (Check the appropria	te classification)	ervation and Recov	ery Act (KCRA) and	the US Environme	ntal Protection Age	ency's July 1988 regulatory deter	mination, the above described waste
RCRA EXEMPT:	Oil field wastes	generated from oil	and gas exploratio	n and production o	Derations and are	not mixed with one grown to	re (R360 Accepts certifications on a per
<del>-</del> 1							
RCRA NON-EXEMPT:	Oil ffeld waste w	hich is non-hazarde	ous that does not s	exceed the minimus	n standards for wa	ste hazardous by characteristics	established in RCRA regulations, 40 CFR
			waste as defined b appropriate items a		subpart D, as ame	nded, The following documentar	established in RCRA regulations, 40 CFR for demonstrating the waste as non-
	MSDS Information		i skibi abi mrc i(#iii? 4	2 highligh)			
		u. []	RCRA Hazardous	Waste Analysis	Ļ_J	Other (Provide Description Below	w}
C marographic	Emergency non-	haztadous pop-oilf	faild uggs a that have				***************************************
EMERGENCY NON-OIL	determination a	nd a desciption of t	the waste must acco	i deen ordered by t Ompany this form)	ne Department of	Public Safety (the order, docume	ntation of non-hazardous waste
(PRINT) ALTHORIZE	AGENTS NAME			DA		S	IGNATURE
Transporter's			TRA	ANSPORT	ER		
Name /	MAIA	Truck	IVA.	Û	river's Name	Can	
Address		TIMA	<del></del>	•	***	$>u$	<u> </u>
<del></del>			<i>U</i>		rint Name 		
Phone No.					hone No.	25	
deceby certify that the above	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				ruck No.	<u> </u>	
mercal acting that the above	= named (naterial(s) was	/were picked up at	the Generator's sit	e listed above and	delivered without i	ncident to the disposal facility lis	ited below.
SHIPMENT DATE		DAVER'S SIGNATURE			4-25-	10 X S	ISI Menulas
TRUCK	TIME STAMP	]	race.	3031 220	DELIVERY	DATE	DRIVEN'S SIGNATURE
N:		ĺ	DISPL	DSAL FAC	LITY	RECEIV	ING AREA
	OUT:		ı			Name/No.	571.57
ite Name/ ermit No. Halfway Fac	ility / NM1-006			n.	Free	······································	JULI
	······································			PA	ione No. S7	75-393-1079	
0001 110003	Hwy US 62/180 Mile Ma	arker 66 Carlsbad, N	IM 88220				
	GS TAKEN? (Circle One)	YES	~ <i>M</i> )	(i	YES, was reading a	> 50 micro roentgens? (circle one	e) yes Go
PASS THE PAINT FI	LTER TEST? (Circle One)	(YE	5) C	NO		- ,	. ,
			TAN	KBOTTO	VIS		
t Gauss	Coll.	Incli	les				
st Gauge nd Gauge					BS&W/	BBLS Received	85&W (%)
celved						Free Water	1.7
				L		Total Received	
I hereby certify that the aba	ve load material has bee	an (cycle one):	ACCEPTED	DENIED	If denied, why?		
<u> </u>	IV.	6-1	-15			<del></del>	······································
наме (рян	1	DATE	10 -	······			
		ψA1:	•	TifLe		SIGN	VATURE



VANGUARD PERMIAN Customer:

Customer #: CRI5830 Ordered by: CHUCK JOHNSTON

150

AFE #: PO#

Manifest #: 310398 Manif. Date: 6/25/2018

Hauler: Driver

M MATA TRUCKING LLC LALO

Truck # Card # Job Ref# Ticket #: 700-905680 Bid #: Walk-in Bid

Date: 6/25/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#:

Field:

Rig:

Field #:

NON-DRILLING

County

LEA (NM)

açi	lity:	CRI
-----	-------	-----

roduct / Service

**Quantity Units** 

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell Ηđ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight ab Analysis: 50/51 0.00 0.00 0.00 Ö

### enerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 388 regulatory determination, the above described waste is:

K RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by paracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

river/ Agent Signature	R360 Representative Signature
ustomer Approval	
	THIS IS NOT AN INVOICE!

21	1	10 (	\ A 1	$\cap$	21	1

pproved By:



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information
Name CHUCK Johnston

		A STATE OF THE PARTY OF THE PAR	(	ENERAT	OR	N	o. 3103	0.0
Operator No.					Permit/RRC No.	nul .	2T02	30
Operators Name	Varguard	Perm	אנוילט		Lease/Well	ABO	SWD	Roc 002
Address			-100/		Name & No.	_ <u> </u>	عرب ع	ROOG COR
	······································				County		<del>//</del>	
City, State, Zip	······································		<del>/</del>		API No.	***************************************		***************************************
Phone No.			<del>*</del>		Rig Name & No.	····		
	Pidd spring at the				AFE/PÓ No.		······································	······································
Oil Based Muds	EXEMPT ESP W	/aste/Service Iden	tification and /	Amount (place v	olume next to w	aste type in barreis o	r cubic yards)	
Oil Based Cuttings	Maddanasa	NON-INJECTABLE Washout Water (		***************************************		INJECTABLE WATERS Washout Water (Inject	table)	
Water Based Muds Water Based Cuttings		Completion Fluid	/Flow back (Non-	injectable)	***************************************	Completion Fluid/Flov		***************************************
Produced Formation 5	olids	Produced Water ( Gathering Line Water (		Imiantable)		Produced Water (Injec		***************************************
Tank Bottoms		INTERNAL USE ON		- HILLGERUET	····	Gathering Line Water/ OTHER EXEMPT WAST	Waste (Injectable)  S (type and generation	n arryass of the wastal
E&P Contaminated Sol Gas Plant Waste		Truck Washout (e	xempt waste)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			30,000	The state of the rester
WASTE GENERATIO	N PROCESS:	DRILLING		COMPLETION	("")	PRODUCTION		
	<u> </u>		AL EVENSOT ER D.L				L GAII	IERING LINES
	All non-exempt E&P	waste must be analy	sed and be below	vaste/service iden v the threshold lim	tification and Amoi its for toxicity (TCL	unt P), Ignitability, Corrosivi	ty and Reactivity.	
Non-Exempt Other						m Nan-Exempt Waste		
QUANTITY			B - BARRELS		L - LIQUIO	Y <b>/</b> Y/	(RDS)	E - EACH
hereby certify that acc	ording to the Resource Conse	rvation and Recover	y Act (RCRA) and	the US Environme	ntal Protection Age	ancy's July 1988 regulato	ry determination, r	
load is (Check the appro	springe enganication;							
RCRA EXEMPT:	Uii haid wastes g load basis oniy)	enerated from oil an	id gas exploration	and production o	perations and are r	not mixed with non-exer	npt waste (A360 Ac	capts cardifications on a per
RCRA NON-EXE	,,	hich is non-hazardou	s that does not e	veed the minimus	n rtandards for un			I in RCRA regulations, 40 CFR
	ror.r.r.r.or.r.i, o	HATEU HAZBLOOUS WE	asie as denned o	Y 40 CPH, bart 261.	subpart D, as ame	ste nazaroous by charac nded. The following dno	teristics established umentation demon	I in RCRA regulations, 40 CFR strating the waste as non-
		cuear fouers me shi	propriate items a	s provided)		<b>G</b>	and a second second	rearis are maste as little.
	MSDS Informatio	u 🗀 b	RCRA Hazardous	Waste Analysis		Other (Provide Descript	on Below)	
	·			······································		77. R. B. W. L.		
EMERGENCY NON	V-OILFEILO: tmergency non-) determination an	nazradous, non-olifeil id a desciption of the	ld waste that has waste must acco	been ordered by t	he Department of I	Public Safety (the order,	documentation of	non-hazardous waste
				,,				
(PRINT) AUTH	ORIZED AGENTS NAME	-		DA			Signature	
Fransporter's	MATA T		TRA	ANSPORT	ER		4	
Vame				C	river's Name	-	Tolar	**************************************
Address	······································			p	rint Name		<i>ruco</i>	· · · · · · · · · · · · · · · · · · ·
***************************************			<del>*************************************</del>		hone No.			
hone No.	· · · · · · · · · · · · · · · · · · ·		···		ruck No.	1 年		
hereby certify that the a	above named material(s) was/	were nicked up at th	s Generator's sit			150	·	14-11-14-14-14-14-14-14-14-14-14-14-14-1
	,	as as a praise of the first	12 Oct 10 10 10 1 3 310	C 115 24000 03310	uesvered without	incident to the disposal i	lacility listed below.	n
SHIPMENT DATE		DAIVER'S SIGNATURE	***************************************		DELIVERY	DATE		SIGNATURE
TRU	JCK TIME STAMP		DISPO	SAL FAC	ITITY	1 C	CEIVING A	
N:	OUT:	<del>                                     </del>	- 1-y-1 %	, , , , , , , , , , , , , , , , , , ,			· · · · · · · · · · · · · · · · · · ·	721
ite Name/					L	Name/No	-0	20/
	y Facility / NM1-006			PI	ione No. 5	75-393-1079		
ddress 6601 H	obbs Hwy US 62/180 Mile Ma	rker 66 Carlsbad, NN	1 88220				<del></del>	
	ADINGS TAKEN? (Circle One)	YES	~ (b)	ı	f YES, was reading:	> 50 micro roentgens? (	circle ane) Y	ES 230
PASS THE PAI	NT FILTER TEST? (Circle One)	/ES	<u>)                                    </u>	NO			, ,	
	f			KBOTTO	MŠ			
st Gauge	Fent	Inchae		r	Ykarar	100100		
nd Gauge		***************************************		<b> </b>	BS&W,	/BOLS Received Free Water	B5&\	V (%)
eceived						Total Received		
I hareby certify that the	e pbove load material has bee	) de la la a - · · ·						
, M,	Soove load Hatteria ras bee	" Idicie onali	ACCEPTED	DENIED	If denied, why?			
MAN	E (PRINT)	DATE	<u> </u>	me		AN	/	
							SCHATICA	



VANGUARD PERMIAN Customer:

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: 310428 Manif. Date: 6/25/2018

39

Hauler: Driver

M MATA TRUCKING LLC JUAN

Truck # Card # Job Ref#

Ticket#: 700-905682 Bid #: Walk-in Bid Date: 6/25/2018

VANGUARD Generator:

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well #:

002

Field:

Field #

Ria:

NON-DRILLING

County LEA (NM)

icility: CRI

'oduct / Service

**Quantity Units** 

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight 1b Analysis: 50/51 0.00 0.00 0.00

enerator Certification Statement of Waste Status

ereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 88 regulatory determination, the above described waste is:

CRCRA Exempt; Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wasterness. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as sended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

iver/ Agent Signature	R360 Representative Signature
Istomer Approval	

oproved By:	Marana and a second and a second and a second and a second and a second and a second and a second and a second	Date	
•		Date:	
			***************************************



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Name Name Name Name Name Name Name Name

		ENERASOS	Priorie No.	
Oppostou to	<u> </u>	SENERATOR	NO. 310	428
Operator No.		Permit/RRC No Lease/Well		71
Operators Name Vanguari	7	Name & No.	19130 DUN 1	7.
Address	-	County		**************************************
		API No.	······································	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>
City, State, Zip		Rig Name & No		***************************************
Phone No.		AFE/PO No.	······································	
EVENADT COOL	Manta (Canada Adamatica Adamatica)			
Oil Based Muds	NON-INJECTABLE WATERS	Imount (place volume next to	waste type in barrels or cubic yards)	
Oil Based Cuttings	Washout Water (Non-Injectable)		INJECTABLE WATERS Washout Water (Injectable)	
Water Based Muds Water Based Cuttings	Completion Fluid/Flow back (Non-	Injectable)	Completion Fluid/Flow back (Injectable)	***************************************
Produced Formation Solids	Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-	Injectable	Produced Water (Injectable)	
Tank Bottoms	INTERNAL USE ONLY	-milecramis)	Gathering Line Water/Waste (Injectable OTHER EXEMPT WASTES (type and generat	
E&P Contaminated Soil  Gas Plant Waste	Truck Washout (exempt waste)		Alia and Britan	ins brocass of the Mastel
WASTE GENERATION PROCESS:	l sauss	P***		
L.	DRILLING	COMPLETION	PRODUCTION GAT	THERING LINES
All non out out of a	NON-EXEMPT E&P V	Vaste/Service Identification and Ar	mount	
Non-Exempt Other	waste must be analysed and be below		CLP), Ignitability, Corrosivity and Reactivity.	······································
		*please select	from Non-Exempt Waste List on back	
QUANTITY	B - BARRELS	r nana	Y-YARDS	E - EACH
I hereby certify that according to the Resource Cons	arvation and Recovery Act (RCRA) and	the US Environmental Protection	Agency's Itily 1998 regulatory detacolication	the show deresined was
read of (distance appropriate classification)				
RCRA EXEMPT: Oil field wastes	generated from oil and gas exploration	n and production operations and a	re not mixed with non-exempt waste (R360 A	Accepts certifications on a per
igad pasts only)				
RCRA NON-EXEMPT: Oll field waste v	hich is non-hazardous that does not e	xceed the minimum standards for	waste hazardous by characteristics establish	ed in RCRA regulations, 40 CFR
hazardous is at	or insted riazardous waste as defined by ached. (Check the appropriate items as	y 40 CFR, part 261, subpart D, as ar s nrovided)	mended. The following documentation demo	instrating the waste as non-
MSDS Informati			7 041011	
		L.	Other (Provide Description Below)	
Emergency non-	hazzadous pograjifaild wasta that has	been and and bush of the control		***************************************
EMERGENCY NON-OILFEILD: Emergency non- determination a	nd a desciption of the waste must acco	mpany this form)	of Public Safety (the order, documentation o	f non-hazardous waste
(Print) authorized agents name		ØAYE .	SIGNATURE	
	TRA	ANSPORTER		
Transporter's Warne	Marking	Driver's Name	14.60	**************************************
Address	i como a		UNUI	**************************************
***************************************		Print Name		
2h on a No		Phone No.		7
Phone No.		Truck No.	- 30	
hereby certify that the above named material(s) was	/were picked up at the Generator's sit	e listed above and delivered with	winciden to the disposal facility listed helo	*
SHIPMENT DATE		U. J.		
	DRIVER'S SIGNATURE		ERY DATE DRIVE	as signature
TRUCK TIME STAMP	DISPO	DSAL FACILITY	RECEIVING	ARĘA
N: OUT:			Name/No. 6/)	151
ite Name/				
ermit No. Halfway Facility / NM1-006		Phone No.	575-393-1079	
ddress 6601 Hobbs Hwy US 62/180 Mile M	arker 66 Carlsbad, NM 88220			**************************************
NORM READINGS TAKEN? (Circle One)	YES (NO.)	If YES, was readi	ing > 50 micro roentgens? (circle one)	vec 657
PASS THE PAINT FILTER TEST? (Circle One)	(YES)	NO	me > 26 mm o coemBenzi (caria Ode)	YES NO
		KBOTTOMS		
Foet	Inches	TENTIONS	.1	
st Gauge		BSE	W/BBLS Received BS	&W (%)
nd Gauge			Free Water	A 1 1/0/
eceived			Total Received	
I hereby certify that the above bad material has be	on fairely and			
I hereby certify that the above load material has be	en (circle one)	DENIED If denied, why?		
<u> </u>	W-05-10		<i>N</i> O	
NAME (PRINT)	DATE	TITLE		***************************************



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: 310427 Manif. Date: 6/25/2018

0.00

12

Hauler:

M MATA TRUCKING LLC **ADRIAN** 

Driver Truck #

Card # Job Ref#

0.00

Ticket #: 700-905684 Bid #:

Date: Generator:

Walk-in Bid 6/25/2018 VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well#:

002

Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

MR/HR

acility: CRI

roduct / Service

ab Analysis: 50/51

Quantity Units

20.00 yards

ontaminated Soil (RCRA Exempt) Cell рΗ

Cond. %Solids TDS PCI/GM õ

H25 % Oil Weight

### enerator Certification Statement of Waste Status

0.00

sereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 188 regulatory determination, the above described waste is:

& RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

river/ Agent Signature	R360 Representative Signature
***************************************	
ustomer Approval	
Т	HIS IS NOT AN INVOICE!

pproved By:	Date:	
-	<b>D</b> 444.	



#### NEW MEXICO NON-HAZARDOUS GILFIELD WASTE MANIFEST (PLEASE PRINT)

Congany Mag ConfectInformatio	n
Name Will Solvisto	N

GENERATOR 310427 Operator No Permit/RRC No. Lease/Well Operators Name Name & No. Address County API No. City, State, 7in Rig Name & No. Phone No. AFE/PO No. EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards) Oil Based Muds NON-INJECTABLE WATERS Oil Based Cuttings Washout Water (Non-Injectable) Washout Water (Injectable) Water Based Muds Completion Fluid/Flow back (Non-Injectable) Completion Fluid/Flow back (Injectable) Water Based Cuttings Produced Water (Non-Injectable) Produced Water (Injectable) Produced Formation Solids Gathering Line Water/Waste (Non-Injectable) Gathering Line Water/Waste (Injectable) Tank Bottoms INTERNAL USE ONLY OTHER EXEMPT WASTES (type and generation **E&P Contaminated Soil** Truck Washout (exempt waste) Gas Plant Waste WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION **GATHERING LINES** NON-EXEMPT E&P Waste/Service Identification and Amount All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity Non-Exempt Other \*please select from Non-Exempt Waste List on back QUANTITY **B** - BARRELS L-LIQUID Y - YAROS E - EACH I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per RCRA EXEMPT: load basis only) RCRA NON-EXEMPTS Dil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as nonhazardous is attached. (Check the appropriate items as provided) MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below) EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form) (PRINT) AUTHORIZED AGENTS NAME SIGNATURE TRANSPORTER Transporter's Name Driver's Name Address Print Name Phone No. Phone No. Truck No I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and deligered without incident to the disposal facility listed below SHIPMENT DATE ORIVER'S DONATURE TRUCK TIME STAMP DISPOSAL FACILITY RECEIV IN: QUT: Name/No. Site Name / Permit No. Halfway Facility / NM1-005 S75-393-1079 Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 NORM READINGS TAKEN? (Circle One) ര If YES, was reading > 50 micro roentgens? (circle one) 77 PASS THE PAINT FILTER TEST? (Circle One) ŶES TANK BOTTOMS 1st Gauge BS&W/BBLS Received BS&W (%) 2nd Gauge Free Water Received Total Received I hereby certify that the above load material has been (cirgle one If denied, why? NAME (PRINT) SEUTAMBIE



	Sec. 1	
ATTACK AND A STATE OF THE STATE		
Free de		ŀ
S House		
IVIRONMENTAL		
SOLUTIONS	San San San San San San San San San San	

intaminated Soil (RCRA Exempt)

PO#: Manifest #: 310399 Manif. Date: 6/25/2018 Hauler: M MATA TRUCKING LLC

Customer #: CRI5830

Ordered by: CHUCK JOHNSON

Driver LALO Truck # 150

Card # Job Ref#

Customer:

AFE #:

700-905693 Ticket #: Bid #: Walk-in Bid Date: 6/25/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well#: 002

Field:

Field #: Ria:

NON-DRILLING

County

LEA (NM)

Weight

icility: CRI

'oduct / Service

**Quantity Units** 

20.00 yards

Cell Ηq Cond. %Solids TDS PCI/GM MR/HR H2S % Oil ıb Analysis: 50/51 0.00 0.00 0.00

merator Certification Statement of Waste Status

ereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 88 regulatory determination, the above described waste is:

VANGUARD PERMIAN

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): . MSDS Information

The state of the s	Other Provide description
iver/ Agent Signature	R360 Representative Signature
Management of the control of the con	
stomer Approval	

proved By:	,	Date:
		***************************************



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information
Name CHUCK JOHNSTON

A simple of the			GENERA	ror .	NO.	310399
Operator No.  Operators Name	nguard	Porm	re. M	Permit/RRC No. Lease/Well	· · · · · · · · · · · · · · · · · · ·	D ROC 002
Address	- 000 A	T UI I	COPE	Name & No.	HOU SU	ro Ruc 002
				County API No.	**************************************	
City, State, Zip			***************************************	Rig Name & No.	***************************************	
Phone No.				AFE/PO No.	N	
	EXEMPT E&P W	aste/Service Identifica	ition and Amount (nlace		vaste type in barrels or cub	2
Oil Based Muds		NON-INJECTABLE WAT	ERS	voidine next to v	INJECTABLE WATERS	ic yards)
Oil Based Cuttings Water Based Muds		Washout Water (Non-i Completion Fluid/Flow			Washout Water (Injectable)	
Water Based Cuttings	H	Produced Water (Non-	injectable)	,	Completion Fluid/Flow back Produced Water (Injectable)	
Produced Formation Solids Tank Bottoms	4	Gathering Line Water/\ INTERNAL USE ONLY	Waste (Non-Injectable)		Gathering Line Water/Waste	(Injectable)
E&P Contaminated Soil	20	Truck Washout (exemp	t waste)		OTHER EXEMPT WASTES (typ	e and generation process of the waste)
Gas Plant Waste WASTE GENERATION PROCE	SS: [7]	DRILLING	[ COMPLETION		1	
			[_] COMPLETION		PRODUCTION	GATHERING LINES
	All nan-exempt E&P v	NON-EXE vaste must be analysed a	MPT E&P Waste/Service Id nd be below the threshold I	entification and Ame mits for toxicity (TC	ount LP), Ignitabliity, Corrosivity and	Reactivity
Non-Exempt Other	<u> </u>				om Non-Exempt Waste List o	
QUANTITY		B - BA	RRELS	t-ugulo	V-YAROS	f race
I hereby cartify that according to	the Resource Conser	vation and Recovery Act	(RCHA) and the US Environm	-		E - EACH ermination, the above described waste
load is (Check the appropriate cla	•					
RCRA EXEMPT:	Oil field wastes ge load basis only)	nerated from oil and gas	exploration and production	operations and are	not mixed with non-exempt w	este (R360 Accepts certifications on a per
RCRA NON-EXEMPT:						
_		listed hazardous waste a hed. (Check the appropri	2 GENNIEU DY 40 CER. DAIT ZN	1, subpart D, as ame	aste nazardous by characteristi anded. The following document	cs established in RCRA regulations, 4D CFR tation demonstrating the waste as non-
Ĺ	MSDS Information		Hazardous Waste Analysis	П	Other (Provide Description Be	lovet
	***************************************					·
EMERGENCY NON-DILFEILI	Emergency non-ha	zradous, non-olifeild was	ite that has been ordered by e must accompany this form	the Department of	Public Safety (the order, docu-	mentation of non-hazardous waste
74333H		a descipcion of the wast	e must accompany this form	1}		
(PRINT) AUTHORIZEO AGEI	ets hame	**************************************		JATE		SIGNATURE
ransporter's	·		TRANSPOR	TER		
iame <u>M. M.</u>	ALY 1	•		Driver's Name	Jala	
Address			······································	Print Name	- Elever	
	,			Phone No.		
hone No.				Truck No.	150	
hereby centify that the above nar	ned material(s) was/w	vere picked up at the Gen	erator's site listed above an	d delivered without	incident to the disposal facility	listed below.
SHIPMENT DATE	<del></del>	DRIVER'S SIGNATURE	<del></del>	6-28-1	8 4	,
	ME STAMP		DICDOCAL FA	VELIVENY		DAIVER'S SIGNATURE
N:	OUT:		DISPOSAL FAC	CILITY	RECEI Name/No.	VING AREA
te Name/	(-1)	and the state of t		 	Manie/NO.	0010
ermit No. Halfway Facility, ddress 5501 Habba Hva			***************************************	Phone No.	75-393-1079	
NORM READINGS T		ker 66 Carlsbad, NM 8822	***************************************	······································		
PASS THE PAINT FILTER		YES GO	<b>∅</b>	If YES, was reading O	> 50 micro roentgens? (circle c	one) YES
			TANK BOTTO	_		
t Gauge	·· I	ordings				
d Gauge						
	···	······································		BS&V	//BBLS Received	85&W (%)
ceived				BS&V	Free Water	85&W (%)
	and material to			M858	**************************************	35&W (%)
Thereby certify that the above to	ad material has been	(cipcle one) Acce	PIED DENIED	If denied, why?	Free Water	85&W (%)
	ad material has been	(circle one) ACCE	PILED DENIED	If denied, why?	Free Water	858W (%)



	Customer:
	Customer
	Ordered by
J	AFE#:
80.	

VANGUARD PERMIAN

tomer#: CRI5830

ered by: CHUCK JOHNSON

PO #:

Manifest #: 310413 Manif. Date: 6/25/2018

39

Hauler: Driver

M MATA TRUCKING LLC JUAN

Truck #

Card # Job Ref# Ticket #: Bid #:

Date:

700-905694 Walk-in Bid 6/25/2018

Generator: **VANGUARD** Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility:	CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell рН CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	

Approved By:	Date:	**************************************
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C-138

# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Map Cont.	THINGS

seuption V			Phone No	
		GENERATOR	J NO. 310	413
Operator No.		Permit/RRC No.	A0	7
Operators Name / UNGULAR	7	Lease/Well Name & No.	7170 SIJU E	<b>1</b> 2
Address	<u> </u>			
MG(432		County		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
dia da esta		API No.		
City, State, Zip		Rig Name & No.		
Phone No.		AFE/PO Na.	Added	
EXEMPT E&P W	ste/Service Identification and	Amount (place volume next to v	waste type in barrels or cubic yards)	
Oil Based Muds	NON-INJECTABLE WATERS		INJECTABLE WATERS	
Oil Based Cuttings	Washout Water (Non-Injectable	4.11/	Washout Water (Injectable)	***************************************
Water Based Muds Water Based Cuttings	Completion Fluid/Flow back (No Produced Water (Non-Injectable		Completion Fluid/Flow back (Injectable) Produced Water (Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (No		Gathering Line Water/Waste (injectable	)
Tank Bottoms	INTERNAL USE ONLY		OTHER EXEMPT WASTES (type and generat	on process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)			
Gas Plant Waste WASTE GENERATION PROCESS:	DRILLING T	COMPLETION	PRODUCTION GA	THERING LINES
WASTE GENERATION PROCESS:	DRILLING	3 COMPLETION	J PRODUCTION L GA	ITTENTION CONTO
		Waste/Service Identification and An		
	raste must be analysed and be be		CLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other		*pléase sélect f	from Non-Exempt Waste List on back	
QUANTITY	8 - BARRELS	L - LIQUID	V - YARDS	E - EACH
	d a desciption of the waste must a		of Public Safety (the order, documentation  SIGNATURE  JULY  Dut Incident to the disposal facility list the	of non-hazardous waste
t nereby certify that the above named material(s) was	were picked up at the deficiator	6-35.	18 (1	
SHIPMENT DATE	DRIVER'S SIGNATURE	DEUA	VERY DATE DRIV	/ER'S SIGNATURE
TRUCK TIME STAMP	DIS	POSAL FACILITY	RECEIVING	AREA
IN:OUT:			Name/No. 50	16. /
				161
Site Name/				1/31
		Phone No.	575-393-1079	731
Permit No. Halfway Facility / NM 1-006	arker 66 Carlsbad, NM 88220	Phone No.	575-393-1079	
Address 6601 Hobbs Hwy US 62/180 Mile M			575-393-1079  ding > 50 micro roentgens? (circle one)	YES NO
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile M NORM READINGS TAKEN? (Circle One)	YES NOS	If YES, was read		YES NO
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 52/180 Mile M	YES NOS	If YES, was read NO		YES NO
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 52/180 Mile M NOAM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One)	YES YES	If YES, was read		YES NO
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 52/180 Mile M NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One)	YES NOS	If YES, was read NO NOK BOTTOMS	ding > 50 micro roentgens? (circle one)	
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62/180 Mile M NOAM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One)  1st Gauge	YES YES	If YES, was read NO NOK BOTTOMS	ding > 50 micro roentgens? (circle one)	YES NO
Permit No. Address Halfway Facility / NM1-006 6601 Hobbs Hwy US 52/180 Mile M NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One)	YES YES Y	If YES, was read NO NOK BOTTOMS	ding > 50 micro roentgens? (circle one)	
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 52/180 Mile M NOAM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One)  Feet 1st Gauge 2nd Gauge	YES YES Y	If YES, was read NO NOK BOTTOMS	ding > 50 micro roentgens? (circle one)  S&W/88LS Received  Free Water	



Customer: VANGUARD PERMIAN Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

ADRIAN

12

AFE #: PO #:

Manifest #: 310412 Manif, Date: 6/25/2018

Hauler:

M MATA TRUCKING LLC

Driver Truck #

Card # Job Ref# Ticket #: 700-905696 Bid #: Walk-in Bid Date: 6/25/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

acility: CRI

roduct / Service

**Quantity Units** 

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight ab Analysis: 50/51 0.00 0.00 0.00

### enerator Certification Statement of Waste Status

nereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 188 regulatory determination, the above described waste is:

& RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste \_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

river/ Agent Signature	R360 Representative Signature
ustomer Approval	

pproved By:	Date:
-------------	-------



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Conveany	Man Con	tact,	Inform	ation
Conveany Name 114	(K)	b	nnst	0
Phone No				

		GENERATOR	rione No.	
0	<u> </u>	GENERATUK	<sup>No.</sup> 310	412
Operator No.		Permit/RRC No	),	
Operators Name	ulyd	Lease/Well Name & No.	ABO SWN	#72
Address		County	1100 500	
		,	***************************************	***************************************
City, State, Zip		APÌ Ng.		
Phone No.		Rig Name & No		
		AFE/PO No.		
Oil Based Muds	E&P Waste/Service Identification a	nd Amount (place volume next to	waste type in barrels or cubic yards)	
Oil Based Cuttings	NON-INJECTABLE WATERS  Washout Water (Non-Injectal	No.	INJECTABLE WATERS	
Water Based Muds	Completion Fluid/Flow back (		Washout Water (Injectable) Completion Fluid/Flow back (Injectable	••••••••••••••••••••••••••••••••••••••
Water Based Cuttings Produced Formation Solids	Produced Water (Non-Injecta	ble)	Produced Water (Injectable)	· · · · · · · · · · · · · · · · · · ·
Tank Bottoms	Gathering Line Water/Waste	Non-Injectable)	Gathering Line Water/Waste (Injectable	•)
E&P Contaminated Soil 2	Truck Washout (exempt waste	2)	OTHER EXEMPT WASTES (type and genera	dan process of the waste)
Gas Plant Waste				
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION GA	THERING LINES
	NON-EXEMPT E	&P Waste/Service Identification and An	NAUPA†	
All non-exer	npt E&P waste must be analysed and be b	pelow the threshold limits for toxicity (T	CLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other			from Non-Exempt Waste List on back	
QUANTITY				
	8 - BARRELS	L - LIQUID	Y - YARDS	E - EACH
I hereby certify that according to the Resource load is (Check the appropriate classification)	te Conservation and Recovery Act (RCRA)	and the US Environmental Protection A	gency's July 1988 regulatory determination	, the above described waste
RCRA EXEMPT: load bas	wastes generated from oil and gas explor ic natul	ation and production operations and ar	e not mixed with non-exempt waste (R360)	Accepts certifications on a per
	a 5 m//			
261.21-2	waste which is non-navardous that goes r	not exceed the minimum standards for y	waste hazardous by characteristics establish	ed in RCRA regulations, 40 CFR
hazardo	us is attached. (Check the appropriate iter	ns as provided!	nended. The following documentation demo	onstrating the waste as non-
		ous Waste Analysis	Other (Provide Description Below)	
	<del></del>		1 order (France pescription pelow)	
EMERGENCY NON-DILFEILD: Emerger	cy non-hazradous, non-pilfeild waste that	has been ordered by the December	of Public Safety (the order, documentation o	
datermin	ation and a desciption of the waste must	accompany this form)	or Public Safety (the order, documentation of	of non-hazardous waste
		•	Ada (	
(PRIAT) AUTHORIZED AGENTS NAME		DATE	SIGHATURE	
	, Τ	RANSPORTER		
Transporter's	LA TRIALS			
Name	TIME HUCKING	Oriver's Name	Harian	
audress		Print Name		***************************************
		Phone No.	12	
Phone No.		Truck No.		
hereby certify that the above named materia	l(s) was/were picked up at the Generator	's site listed above and delivered withou	it incident to the disposal facility live of the	
			se was selected and displayer ratelity listed delo	₩.
SHIPMENT DATE	DRIVER'S SIGNATURE	ÖELIVE	BY DATE DRIVE	A'S SIGNATURE
TRUCK TIME STA	AMP DIS	POSAL FACILITY	RECEIVING	
N:OUT:		The second secon	1	Le Co
ite Name/	41.4(a.a.) jda-16-		Name/No. (50)	31
ermit No. Halfway Facility / NM1-005		Phone No.	F3F 300 44-4	
1.1	Mile Marker 66 Carlsbad, NM 88220	· , ·	575-393-1079	
NORM READINGS TAKEN? (Circ	(= 0 - 1)			
·		If YES, was readin	ng > 50 micro roentgens? (circle one)	YES CHO
PASS THE PAINT FILTER TEST? (Circ		NO		
	A	NK BOTTOMS		the Contract of the Contract o
Fan*	toler.		•	
ot Gauge nd Gauge		BS&	W/BBLS Received BS	&W (%)
eceived			Free Water	(**)
			Total Received	
I hereby certify that the above load material				THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O
1 14 1	has been (circlemonal). Acception	- DENIER	the state of the s	The sound is an expense of the sound of the
1 1(1)	has been (circle one):	DENIED if denied, why?		
NAME (PRINT)	has been (circle one):	DENIED if denied, why?	JU	



Facility: CRI

ENVIRONMENTAL	
SOLUTIONS	

Customer:

Manifest #:

AFE#:

PO#:

Hauler

Driver

Truck #

Card#

Job Ref#

Customer #: CRI5830

Manif. Date: 6/25/2018

Ordered by: AMBER GROVE

313324

SAUL

38

Hioduct//Service Cuantity Unite

Ticket #:

Generator:

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Bld #:

Date:

Well #:

Field #:

County

Field:

Rig:

700-905701

Walk-in Bid

VANGUARD

NON-DRILLING

LEA (NM)

6/25/2018

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Ηq Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 Ő

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

VANGUARD PERMIAN

M MATA TRUCKING LLC

X RCRA Exempt; Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

		June 1100000 1211	www.	. Other (Frovide description at
Driver Agent Signature	<b>的是有一个人的一个人的一个人的一个人的一个人</b>	R360 Represe	ntative Sign	ature
		ILIM	e e e e e e e e e e e e e e e e e e e	
		<del></del>	······································	······································
Gustomer:Approval				

Approved By:	PROCESSION CONTRACTOR	Date:	
--------------	---	-------	--

### TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Plains Marketing, LP S05 Big Spring Suite 600, Midland, TX, 79701		Site: Mewbourne Forty Niner Ridge Unit 103H Legals: UL "O" Sec. 22, T23S, R30E Location: Eddy Co, NM API; SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS; M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	<del></del>	
DESCRIPTION OF WASTE:	***************************************	reduced to the characteristic and the control of th
VOLUME: 801L		· · · · · · · · · · · · · · · · · · ·
FACILITY CONTACT:  Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	<del></del>	Signature   M/W (170V)  Date: 4 3   34   34   34   34   34   34   34
NAME OF TRANSPORTER: (DRIVER)		Name: Hector B  Signature: 7/4/8  Oate: 6-27-18
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	TOTAL TO THE TOTAL THE TOT	Signatures & Danzalz &
		Date: 4-22-18 6-25-18
	Direct Bill: Lare Ut:	Plains Marketing, LP Amuer Groves



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

GENERATOR 311604 Operator No Permit/RRC No. Lease/Well anguard **Operators Name** Name & No. Address County API No. NON - Dri City, State, Zip Rie Name & No. Phone No. AFE/PO No. EKEMBITERA Waste/Service identification and Amount (place volume next to waste type in bartels of cribin varies) Oil Based Muds KUMBINGSE Oil Based Cuttings Washout Water (Non-Injectable) Washout Water (Injectable) Water Based Muds Completion Fluid/Flow back (Non-Injectable) Completion Fluid/Flow back (Injectable) Water Based Cuttings Produced Water (Non-Injectable) Produced Water (Injectable) Produced Formation Solids Gathering Line Water/Waste (Injectable) Gathering Line Water/Waste (Non-Injectable) **Tank Bottoms** INTERVENIE MUNICIPALITY E&P Contaminated Soil Truck Washout (exempt waste) Gas Plant Waste WASTE GENERATION PROCESS DRILLING COMPLETION PRODUCTION GATHERING LINES NON-EXEMPT ESP Waste/Service Identification and Am te must be analysed and be below the threshold limits for toxicity (TOP), ignitability. Corrosivity and Reactivity Non-Exempt Other \*please select from Non-Exempt Waste List on back QUANTITY B - BARNELS 1.40000 PARMS E » ይልርፁ I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification) Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per RCRA EXEMPT: load basis only) Oil Keld waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFA RCRA NON-EXEMPT: 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as nonhazardous is attached. (Check the appropriate items as provided) RCRA Hazardous Waste Analysis MSDS Information Other (Provide Description Below) EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form) TRANSPORTER Transporter's Name Address Print Name Phone No. Phone No. Truck No. 38 I hereby certify that the above named (noterial(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below - 6-25-18 SHIPMENT DATE CRIVER'S SIGNATURE RECEIVING AREA TRUCK TIME STAMP DISPOSAL FACILITY IN: OUT: Name/No.50/5/ Site Name/ Phone No. Halfway Facility / NM1-006 575-393-1079 Parmit No. Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 đo. NORM READINGS TAKEN? (Circle One) if YES, was reading > 50 micro roentgens? (circle one) YES PASS THE PAINT FILTER TEST? (Circle One) Feet inches 1st Gauge BS&W/ABLS Received BS&W (%) Free Water 2nd Gauge Received Total Received DENIED If denied, why? thereby certify that the above load material has been (circle one):

SCHATURE



Facility: CRI

<b>E</b> 3	60
NVIRONMENTAL	

Manif. Date: 6/26/2018 Hauler: M MATA TRUCKING LLC Driver HECTOR Truck # 30

Customer: MEWBOURNE OIL CO

Customer #: CRI4110

Manifest #: NA

Ordered by: AMBER GROVE

Card# Job Ref#

Approved By:

AFE #:

PO#:

Ticket #: 700-905826 Bid #: O6UJ9A000BEJ Date: 6/26/2018

Generator: MEWBOURNE OIL CO

Generator #:

Well Ser. #: 42708

Well Name: FORTY NINER RIDGE UNIT

Well#: 103H

Field:

Field #: Rig:

NON-DRILLING

County

Date:

EDDY (NM)

Product Service  Contaminated Soil (RCRA Exempt)				Q	Quantity Units 20.00 yards						
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	0/ (00	AA ( a ) . ( . )
Lab Analysis:	50/51	0.00	0.00	0.00	0		1 01/01/1	IN OLIT	LISO	% Oil	Weight
I hereby certify to 1988 regulatory  X RCRA Exent RCRA Non-characteristics estamended. The form MSDS Infortiver/ Agent:	determina npt: Oil F Exempt: stablished ollowing of mation	ition, the alield wastes Oil field w in RCRA locumenta RCRA	bove descri generated aste which regulations tion is attac Hazardous	bed waste ifrom oil an is non-haza, 40 CFR 20 hed to dem	is: id gas explora id gas explora irdous that do 61.21-261.24 o ionstrate the a idysis Pr	tion and p es not exc or listed had bove-desc	roduction opered the mining a control of the mining a control of the mining a control of the con	erations and a num standard e as defined a s non-hazard Other (Prov	nmental Pro are not mixe Is for waste in 40 CFR, ous. (Check ide descript	ed with nor hazardous part 261, so the appropicion above)	n-exempt wast- by ubpart D, as
Customer App	roval 📝				<b>第三人称形式</b>	4.144	on ordered	Talle (19)			
			•	THIS I	S NOT	AN IN	VOICE	[			

#### TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS;	LOCATIO	ON OF MATERIAL:
Piains Marketing, LP 505 Big Spring Suite 600, Midland, TX, 79701	Site: Legals: Location: API:	Mewbourne Forty Niner Ridge Unit 103H UL "O" Sec. 22, T235, R30E Eddy Co, NM SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		Epublich Seit Character Co. C.
DESCRIPTION OF WASTE:	 	
VOLUME: #TRUCK 1295	• ,	
FACILITY CONTACT:		Andrew Corner De
Amber Groves Plains Marketing, LP	Signature	Marchan Grove,
1911 Connie Road, Carlsbad, NM 88220	Date:	6/22/2018
NAME OF TRANSPORTER: (DRIVER)	Name: ≠	Hertor B Angola
	Signature Date: <u>6</u>	27-18-66-26-18
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	Signature	J. Danzalz &
	Date: L	1-12-18 le 25-18
<del>ang panggang nanang dan manggang da kanang pang da kanang nanang nanang nanang nanang nanang nanang nanang nan</del>	 <b>Plains M</b> Amber G	arketing, LP Frover



	Market Parket	
	4	
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AFE #: PO#: Manifest #: NA Manif. Date: 6/26/2018

Ordered by: AMBER GROVE

Customer #: CRI4110

Hauler: M MATA TRUCKING LLC Driver ANGEL Truck # 1295

Card# Job Ref#

Customer:

Ticket #: 700-905827 Bid #: O6UJ9A000BEJ Date: 6/26/2018

Generator: MEWBOURNE OIL CO

Generator #:

Well Ser. #: 42708

Well Name: FORTY NINER RIDGE UNIT 103H

Well #: Field:

Field #:

Rig: NON-DRILLING County EDDY (NM)

Facility: CRI

Product//Service Quantity/Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell ÞΗ Ci %Solids Cond. TDS PGI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

MEWBOURNE OIL CO

# Generator Centification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
And P	AVI
1914	
**************************************	
Gustomer Approval	

Approved By:				Date	
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<b>7</b>	No. of the
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AFE#:

Customer:

Customer #: CRI5830

Ordered by: CHUCK VANGUARD

PO#:

Manifest#: NA Manif, Date: 6/26/2018

Hauler: Driver

M MATA TRUCKING LLC

VANGUARD PERMIAN

**HECTOR** 

Truck # Card# Job Ref#

Ticket #: Bid #:

700~905898 Walk-in Bid

Date: 6/26/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name:

ABO SWD ROC 002

Well #: Field:

Field #

NON-DRILLING

County

Rig:

LEA (NM)

Facility: CRI
Product / Service
Contaminated Soil (RCRA Exempt)

Quantity Units

20.00 yards

Cond. %Solids TDS PCI/GM MR/HR H2S % OII Weight Lab Analysis: 50/51 0.00 0.00 0.00

Generator Certification	Statement of	Waste Status
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I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by :haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as imended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Oriver/ Agent Signature	R360 Representative Signature
21th	
Sustomer Approval	1

Approved By:	Date:
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#### TRANSPORTER'S MANUEEST

יוכרוויינו	OWIER 2 M	(AMIFES)
SHIPPERS FACILITY NAME AND ADDRESS: Vanguard Operating, LLC		LOCATION OF MATERIAL:  Site: ABO SWD #7
4001 Penbrook, Suite 201, Odessa, TX 79762		Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263,		1
Hobbs, NM, 88241  DESCRIPTION OF WASTE:		
VOLUME: 2.0 x		
FACILITY CONTACT:  Chuck Johnston  Kyle Zimmermon  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CAL J. J. A.  Date: 6-30-18
NAME OF TRANSPORTER: IDRIVERD  M. Mata Trucking  Truck # 10. 80	anne a service de la companya de la companya de la companya de la companya de la companya de la companya de la	Name: Actor Con 6
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388		pate: 6-21-18
Hobbs, NM 88241		Signature: 1 2 Date: U 2 U
	Direct Bill: Care Of;	i de la charactura, rec



Customer; VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

ANGEL

1295

AFE #: PO #:

Manifest #: NA

Hauler:

Manif. Date: 6/26/2018 M MATA TRUCKING LLC

Driver Truck #

Card# Job Ref#

Ticket #: Bid #:

Date:

700-905900 Walk-in Bid 6/26/2018

Generator: VANGUARD

Generator #:

Well Ser. #: 03849 Well Name: ABO SWD ROC

Well#:

002

Field:

Field #:

Ria:

NON-DRILLING

County

LEA (NM)

Facility:	CRI
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Product / Service

Quantity Units

20.00 yards

Contaminated Soil (RCRA Exempt)

Cell Cond. %Solids TDS PCI/GM MR/HR Lab Analysis: 50/51 H2S % Oil Weight 0.00 0.00 0.00

# Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Sig	nature
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R360 Representative Signature

**Customer Approval** 

pproved By:	Dale:
	Date.

# TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWO #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
VOLUME: 20 KU	· · · · · · · · · · · · · · · · · · ·
FACILITY CONTACT: Chack Johns fon Kyle-Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: IDRIVERY  M. Mota Trucking  Truck # 10, 1295	Name: Ada social Signature: Bala social Soci
DISPOSAL SITE: R360 Halfway Pacility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241	Signature: A Market
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman



<sup>3</sup>ermian Basin

Customer: VANGUARD PERMIAN Customer #: CRI5830
Ordered by: CHUCK JOHNSTON AFE #:

**HECTOR** 

PO#;

Manifest #: NA
Manif. Date: 6/26/2018
Hauler: M MATA TRUCKING LLC

Driver Truck #

Card # Job Ref # Ticket #: 700-905968
Bid #: Walk-in Bid
Date: 6/26/2018
Generator: VANGUARD

Generator: VA
Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well #: 002

Well #: Field:

Field#; Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pH CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight -ab Analysis: 50/51 0.00 0.00 0.00 0

#### **Jenerator Certification Statement of Waste Status**

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.2 I-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as imended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

\_\_\_ MSDS Information \_\_\_ RCRA Hazardous Waste Analysis \_\_\_ Process Knowledge \_\_\_ Other (Provide description above)

Switchel Amend Circumstates	
Driver/ Agent Signature	R360 Representative Signature
7153	<u> </u>
Sustamer Approval	

THIS IS NOT AN INVOICE	THIS I	SNO	nt.	ΔΝ	IN۱	/OICI	=1
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Approved By:	Date:
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### TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND	ADDRESS.

LOCATION OF MATERIAL:

Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752

Site: ABO SWD #2

Legals: UL "C", Sec. 2, T175, R36E

Location: Lea Co, NM API: 30-025-03849

TRANSPORTERS NAME AND ADDRESS:

M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 X

EAGUITY CONTACT: Check Johnston

Kyle Zimmermon Vanguard Operating, LLC

4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: 🤇

Date: /

6-30-18

NAME OF TRANSPORTER: (DRIVER)

M. Morta Trucking

Truck # 10 30

Namor

lame: Me 13

. / . .

21-18

DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388

PO Box 388 Hobbs, NM 88241 Signature;

Nate

Direct Bill: Vanguard Operating, LLC

Care Of: Kyle Zimmerman



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

1295

AFE#: PO#:

Manifest #: NA

Manif. Date: 6/26/2018

Hauler: Driver

M MATA TRUCKING LLC ANGEL

Truck #

Card# Job Ref# Ticket #: Bid #: Date:

700-905970 Walk-in Bid 6/26/2018 **VANGUARD** 

Generator: Generator #

Well Ser. #:

03849 Well Name: ABO SWD ROC

002

Well#: Field<sup>\*</sup>

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

pΗ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis, 50/51 0.00 0.00 0,00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Approval	

Approved By:Da	ate:
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SHIPPERS FACILITY NAME AND ADDRESS:  Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		LOCATION OF MATERIAL:  Site: A80 SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241  DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME:  20 X		
FACILITY CONTACT: Check Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Oll flat  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. Mata Tradking  Truck # 10 1295		Name: Add order  Signature: Add order  Date: 6-21-18
DISPOSAL SITE: R350 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	When the second	Signature: Management of the Signature: Date: U2/1
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



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



Client: TRC Solutions, Inc

Date/ Time Received: 07/18/2018 10:10:00 AM

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

Work Order #: 592670

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments		
#1 *Temperature of cooler(s)?		1		
#2 *Shipping container in good condition	?	Yes		
#3 *Samples received on ice?		Yes		
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A		
#5 Custody Seals intact on sample bottle	es?	N/A		
#6*Custody Seals Signed and dated?		N/A		
#7 *Chain of Custody present?		Yes		
#8 Any missing/extra samples?		No		
#9 Chain of Custody signed when relinqu	uished/ received?	Yes		
#10 Chain of Custody agrees with sampl	e 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 indicate	ed test(s)?	Yes		
#16 All samples received within hold time	e?	Yes		
#17 Subcontract of sample(s)?		No		
#18 Water VOC samples have zero head	dspace?	N/A		
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator		
Checklist completed by:  Checklist reviewed by:	Harafille Katie Lowe	Date: 07/18/2018  Date: 07/19/2018		
	Kelsey Brooks	5410. <u>51710/2010</u>		



Customer: Customer#:

Driver

Truck #

Card#

Job Ref#

VANGUARD PERMIAN

M MATA TRUCKING LLC

Ticket #:

700-906233

CRI5830 **CHUCK JOHNSTON** 

313324

6/25/2018

HECTOR B

Bid#: Date:

Walk-in Bid 6/27/2018

Generator:

VANGUARD

Generator #:

03849 Well Ser. #:

Well Name:

ABO SWD ROC

Well#:

Field:

Field #: Rig;

NON-DRILLING

002

County

LEA (NM)

Facility: CRI

Product/SerV	CB .	V21.5				ĵ.	uariity Uni	2		26 (2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Contaminated	Soil (RCR	A Exempt	)				20.00 yard	ls			
Lab Analysis:	Cell 50/51	рН 0.00	CI 0.00	Cond. 0.00	%Solids 0	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Generator Cert I hereby certify ti 1988 regulatory of X RCRA Exem _ RCRA Non-i characteristics est amended. The for _ MSDS Infort  Driver Agent S	nat accordinate of the control of th	ng to the Re on, the above d wastes ge il field wast a RCRA reg cumentation _ RCRA Ha	esource Considered described which is no ulations, 40 to is attached exardous Was	ervation and waste is: toil and gas on-hazardous CFR 261,21- to demonstra	exploration and that does not ex 261.24 or listed te the above-de Process Ki	production second the n hazardous scribed wa nowledge	n operations and ninimum standa waste as defin ste is non-haza Other (Pro	I are not mixe urds for waste ed in 40 CFR, rdous, (Check wide descripti	d with non-e hazardous by part 261, su the appropri on above)	xempt waste y bpart D, as	
Customer Appr	oval 🚁										
				THIS	IS NOT	AN IN	VOICE				
Approved By:	<b>,,,,,,</b>					Da	ite:				



R36P	visto injenita ito	(PLEASE PRI	NT)		Name Phone No.	aller (074	rov v
The second secon		GENERAT	OR			324	
Operator No.  Operators Name Address			Parmit/RRC No. Lease/Weil Name & No. County	Forly	Atmer Andy BU SWY	024 6 103H	<u>-</u>
City, State, Zip Phone No.			API Na, Rig Name & No. AFE/PO No.	NON-	Drilling		
EXEMPT #&	P Waste/Service Identification a	and Amount (place	volume next to	waste type in barr	els or cubic vards)		
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Sail Gas Plant Waste	NON-INJECTABLE WATERS Washout Water (Non-injecta Completion Fluid/Flow back ( Produced Water (Non-injecta Gathering Line Water/Waste INTERNAL USE ONLY Truck Washout (exempt wast	able) (Non-Injectable) able) (Non-Injectable)		(NJECTABLE WAT Washoul Water ( Completion Fluid Produced Water Gathering Line W	ERS Injectable) /Flow back (Injectable)	on process of the w	aste)
WASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION	□ GAT	HERING LINES	
Ali non-exempt i	E&P waste must be analysed and be	E&P Weste/Service Ide below the threshold fin	mits for toxicity (To	cunt CLP), (gnitability, Corr from Non-Exempt W			
QUANTITY	8 - BARRELS	s .	L - LIQUID	70	Y-YARDS	E -	EACH
RCRA EXEMPT: Oil field was lood basis or Oil field was so of 261.21-261.	te which is non-hazardous that does 24, or listed hazardous waste as defir attached. (Check the appropriate ite	not exceed the minima ned by 40 CFR, part 26:	um standards for v	vaste hazardous hviri	haracteriatics establishe g documentation demo	rel in BCBA records	stlane 407
RCRA EXEMPT; Oil field was loud basis or Oil field was 261.21-261.2 hazardous is MSDS Inform	te which is non-hazardous that does  24, or listed hazardous waste as defit attached. (Check the appropriate ite nation RCRA Hazard  on-hazradous, non-oilfeild waste the mand a desciption of the waste mus	not exceed the minimal med by 40 CFR, part 26; ems as provided] dous Waste Analysis at has been ordered by st accompany this form	um standards for v 1, subpart D, as an the Department o	waste hazardous by cl nended. The following Other (Provide Des	heracteristics establishe g documentation demo- cription Below)	ed in RCRA regula histrating the was	ations, 40 C ste as non-
RCRA EXEMPT; Oll field was load basis or Oll field was some basis on Oll field was 261,21-261. hazardous is MSDS Inform  EMERGENCY NON-OILFEILD: Emergency of determination of the company	to which is non-hazardous that does 24, or listed hazardous waste as defination (Check the appropriate ite nation RCRA Hazardous, non-oilfeild waste the nand a desciption of the waste must nand a desciption of the waste must	not exceed the minimal med by 40 CFR, part 26; ems as provided] dous Waste Analysis at has been ordered by st accompany this form	um standards for v 1, subpart D, as an the Department o	waste hazardous by cl nended. The following Other (Provide Des	haracteristics establishe g documentation damo cription Below) rrder, documentation o	ed in RCRA regula histrating the was	ations, 40 C ste as non-
RCRA EXEMPT: Oll field was load basis or Cliffeld was 261,21-261.2 hazardous is MSUS Inform  EMERGENCY NON-OILFEILD: Emergency in determination of Communication  to which is non-hazardous that does 24, or listed hazardous waste as defit attached. (Check the appropriate ite nation RCRA Hazardon-hazardous, non-olifeild waste then and a desciption of the waste must be recommended.	not exceed the minimal by 40 CFR, part 263 ems as provided) dous Waste Analysis at has been ordered by st accompany this form	um standards for v 1, subpart O, as an  othe Department o  part  TER  Driver's Name  Print Name  Phone No.  Truck No.	vaste hazardous by clanded. The following  Other (Provide Des	haracteristics establishes documentation demo cription Below) order, documentation of	ed in RCRA regula nstrating the was finon-hazardous	ations, 40 C ste as non-	
RCRA EXEMPT: Oil field was load basis or College to Basis or Colle	to which is non-hazardous that does 24, or listed hazardous waste as defination RCRA Hazard RCRA HAZARD RCRA HAZAR	not exceed the minimal mad by 40 CFR, part 263 ems as provided) clous Waste Analysis at has been ordered by st accompany this form	our standards for v 1, subpart O, as an  othe Department of  other Depar	vaste hazardous by clanded. The following  Other (Provide Des	neracteristics establishes documentation demo cription Below)  Inder, documentation of SIGNATURE	ed in RCRA regula nstrating the was finon-hazardous	ations, 40 ( ste as non-
RCRA EXEMPT: Oll field was load basis or RCRA NON-EXEMPT: Oll field was 261.21-261.2 hazardous is MSDS Inform  EMERGENCY NON-OILFEILD: Emergency of determination of the company of the compa	to which is non-hazardous that does 24, or listed hazardous waste as defination RCRA Hazard RCRA HAZARD RCRA HAZAR	not exceed the minimal by 40 CFR, part 263 ems as provided) dous Waste Analysis at has been ordered by st accompany this form	our standards for v 1, subpart O, as an  othe Department of  other Depar	vaste hazardous by clanded. The following  Other (Provide Des  of Public Safety (the classification)  at incident to the disp	pheracteristics establishes documentation demo cription Below)  order, documentation of signature.  Signature.  Desive a RECEIVING A	ed in RCRA regula nstrating the was finon-hazardous	ations, 40 ( ste as non-
RCRA EXEMPT: Oll field was load basis or Cliffeld was some basis on the property of the proper	to which is non-hazardous that does 24, or listed hazardous waste as defination RCRA Hazard RCRA HAZARD RCRA HAZAR	not exceed the minimal by 40 CFR, part 263 ems as provided) dous Waste Analysis at has been ordered by st accompany this form	our standards for v 1, subpart O, as an  othe Department of  other Depar	vaste hazardous by clanded. The following  Other (Provide Des  of Public Safety (the classification)  at incident to the disp	neracteristics establishes documentation demo cription Below)  Inder, documentation of SIGNATURE	ed in RCRA regula nstrating the was finon-hazardous	ations, 40 C ste as non-
RCRA EXEMPT: Oli field was load basis or ACRA NON-EXEMPT: Oli field was 261.21-261.2 hazardous is MSDS Inform  EMERGENCY NON-OILF SILD: Emergency in determination of the communication of the communi	to which is non-hazardous that does 24, or listed hazardous waste as defit attached. (Chack the appropriate its nation RCRA Hazardous, non-oilfeild waste then and a desciption of the waste must be made and the made a desciption of the waste must be made and the mad	not exceed the minimal mad by 40 CFR, part 263 ems as provided) clous Waste Analysis at has been ordered by st accompany this form  TRANSPOR  TRANSPOR  SPOSAL FAC	our standards for v 1, subpart O, as an  othe Department of  other Depar	waste hazardous by claended. The following Other (Provide Des of Public Safety (the contincident to the disp incident to the disp incident to the disp incident to the disp	neracteristics establishes documentation demo cription Below)  order, documentation of signature.  Signature.  Desive RECEIVING A	ed in RCRA regula nstrating the was finon-hazardous	ations, 40 C ste as non-
RCRA NON-EXEMPT:  Oli field wast 261.21-261.7 hazardous is MSDS Inform  EMERGENCY NON-OILFEILD:  GRINTI, AUTHORIZED AGENTS NAME  Fransporter's lame wideress  thone No.  hereby certify that the above named material(s)  SHIPMENT DATE  TRUCK TIME STAN  N:  OUT:  Ite Name/ cermit No.  Halfway Facility / NM1-006  d601 Hobbs Hwy US 62/180 Mile  NORM READINGS TAKEN? (Circle O	to which is non-hazardous that does 24, or listed hazardous waste as defit attached. (Check the appropriate ite nation RCRA Hazardon-hazardous, non-olifeild waste them and a desciption of the waste must be a described on the waste must be a described on the Generator Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Discontinue.	not exceed the minimal mad by 40 CFR, part 263 ems as provided) clous Waste Analysis at has been ordered by st accompany this form  TRANSPOR  TRANSPOR  SPOSAL FAC	our standards for v 1, subpart O, as an  othe Department of  other Depar	waste hazardous by claended. The following Other (Provide Des of Public Safety (the claent Safety) At incident to the disp Revort Name/	neracteristics establishes documentation demo cription Below)  order, documentation of signature.  Signature.  Desive RECEIVING A	ed in RCRA regularistrating the was	ations, 40 ( ste as non-
RCRA EXEMPT: Oli field was load basis or Oli field was 261,21-261.2 hazardous is MSDS Inform  EMERGENCY NON-OILEGILD: Emergency in determination of the company of the comp	to which is non-hazardous that does 24, or listed hazardous waste as defit attached. (Check the appropriate ite nation RCRA Hazardon-hazardous, non-olifeild waste them and a desciption of the waste must be a described on the waste must be a described on the Generator Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Dailyer's signature.  Discontinue.	not exceed the minimal mad by 40 CFR, part 263 ems as provided) clous Waste Analysis at has been ordered by st accompany this form  TRANSPOR  TRANSPOR  N  N	TER  Driver's Name Prone No. Truck No. d delivered without G-ZS_ GRIVE  Plume No. If YES, was reading	waste hazardous by claended. The following Other (Provide Des of Public Safety (the claent Safety) At incident to the disp Revort Name/	neracteristics establishes documentation demo cription Below)  order, documentation of signature.  Signature.  Desive RECEIVING A	ed in RCRA regularistrating the was	ations, 40 ( ste as non-

SIGNATURE

# TRANSPORTER'S MANIFEST SHIPPERS FACILITY NAME AND ADDRESS: LOCATION OF MATERIAL: Vanguard Operating, LLC Site: ABO SWD #2" 4001 Panbrook, Suite 201, Odessa, TX 79762 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM 30-025-03849 IRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL 20 xd VOLUME: FACILITY CONTACT: Chek Johnston Kylezimmermon Signature: Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762 Date: NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking Truck # 100 30 DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241

Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

Dates



Customer: Customer#:

Ordered by:

VANGUARD PERMIAN

CRI5830

CHUCK JOHNSTON

AFE #: PO #:

Manifest#;

NΑ

7/2/2018

Manif. Date: Hauler: HECTOR

M MATA TRUCKING LLC

Driver Truck #

Job Ref#

150

Card#

Ticket#:

700-907882

Bid #: Date:

Walk-in Bid 7/2/2018 VANGUARD

Generator: Generator #;

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Preduct / Serv	CO N	4			Andrew Comment	· · · · · · · · · · · · · · · · · · ·	iantity Uni				
Contaminated :			20.00 yard	S	Charles Andrews and Charles	a milandigi i a jarqiminin di aginomizi agri	Control of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the Addition of the Property of the				
	Cell	Нq	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			, , , , , , , , , , , , , , , , , , ,			
Gengrator Cont I hereby certify the 1988 regulatory of X RCRA Exem RCRA Non-Ficharacteristics est amended. The fo MSDS Inform Driver Agent S	at accordineterminated pt: Oil Fiel Exempt: Oil ablished in Illowing donation	ng to the Re on, the above d wastes ge. I field waste RCRA region umentation RCRA Ha	source Conse e described of nerated from which is no lations, 40 (a) is attached of zardous Was	ervation and waste is:  oil and gas an-hazardous CFR 261.21- to demonstrate Analysis	Recovery Act ( exploration and that does not explored to the context of the conte	RCRA) and production acceed the in hazardous scribed was nowledge	d the US Envi operations and ninimum stand waste as defin ste is non-haza	d are not mixed ords for waste ad in 40 CFR, rdous. (Check	d with non-entransity by part 261, subthe appropri	xempt waste	
Gustomer Appr	bval 😘			And the And	and annex	gerk vener					
				THIS	IS NOT	AN IN	VOICE!				
Approved By:			10.			Da	te:				

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sac. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL 70		
VOLUME:		
FACIUTY CONTACT: Chack Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	-	Signature: AlfA  Date: 703-18
NAME OF TRANSPORTER: (DRIVER)		TV+ 150  Name: <u>Hcctor</u> B  Signature: <u>71 f B</u> Date: <u>7-02-18</u>
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: TMarinue  Date: 1/2/18
		Vanguard Operating, LLC Kyle Zimmerman



Facility: CRI

Customer: Customer#:

Ordered by:

CHUCK JOHNSTON

AFE #: PO#:

Manifest #;

NA 7/2/2018 Manif. Date:

150

Hauler: M MATA TRUCKING LLC HECTOR

Driver Truck #

Card# Job Ref# VANGUARD PERMIAN

CRI5830

Bid#: Date: Generator:

Ticket #:

700-907923 Walk-in Bid 7/2/2018

VANGUARD

Generator #: 03849

Well Ser. #: Well Name: ABO SWD ROC

Well #:

Field:

Field #: Rig:

NON-DRILLING

LEA (NM) County

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards pΗ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0,00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
- \_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261,21-261,24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

Driver/Agent Sjgnature	360 Representative Signature ⊋		entral Bir States and March States and Section 2 Bir States and March States and Section 2 Bir States and March States and
		, <u>, , , , , , , , , , , , , , , , , , </u>	
Customer Approval			

Approved By:	Date:
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mate Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	······································	
VOLUME:		
FACILITY CONTACT: Chuck Tohns fon Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Ohlfd.  Date: 7-03-18
NAME OF TRANSPORTER: (DRIVER)		Name: <u>Hcclor</u> B  Signature: <u>9/ f B</u> Date: <b>T-02</b> -18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: TManue
	Direct Bill: Care Of:	·



Facility: CRI

ustomer:	VANGUARD PERMIAN	Ticket#:
ustomer#:	CRI5830	Bid #:
rdered by:	CHUCK JOHNSTON	Date:
FE #:		Generator:
O #:		Generator#:
lanifest#:	NA	Well Ser. #:
lanif. Date:	7/2/2018	Well Name:

M MATA TRUCKING LLC Hauler: Well#: 002 Driver HECTOR Field: Truck # 150 Field #: Card# Rig: NON-DRILLING

Job Ref#

County LEA (NM)

Date:

700-907980 Walk-in Bid 7/2/2018 VANGUARD

03849

ABO SWD ROC

Product/ Servi	CO					Q	uantity Uni	bs.			
Contaminated Soil (RCRA Exempt)							20.00 yard	is			
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0,00	0.00	0		<del></del>	, , , , , , , , , , , , , , , , , , , ,			
Generator Cart I hereby certify the 1988 regulatory of  X RCRA Exem RCRA Non-I characteristics est  Amended. The form MSDS Inform	nat accordi leterminati pt: Oil Fie Exempt: O ablished in llowing do	ing to the Reion, the abor- ld wastes go il field wast n RCRA reg ocumentatio	esource Consider described enerated from the which is not sulations, 40 mis attached	ervation and waste is: a oil and gas on-hazardous CFR 261.21- to demonstra	Recovery Act ( exploration and that does not ex 261.24 or listed to the above-de	RCRA) an production ceed the nazardous scribed wa	d the US Envi n operations an ninimum stand waste as defin ste is non-haza	ronmental Pro d are not mixe ards for waste ed in 40 CFR, ardous. (Check	d with non-e hazardous b part 261, su the appropr	exempt waste y bpart D, as	c.
Driver( Agent S	ignature	haj komer har dit. Sir da sekala di pend	grayasında Grayasında	er en en en en en en en en en en en en en	R360 R	presenta	tive Signatu	<b>18</b>	of the state of th	role in the property of the second	
			What . , , ,								
Customer Appr	oval 🖈			u eus s	A SAF Taken			A COLUMN TO THE THE THE		wee n	
				THIS	IS NOT	AN IN	VOICE!				

Approved By:

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Lagais: Location: API:	ABO SWD #2 UL"C", Sec. 2, T175, R36E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241			
DESCRIPTION OF WASTE:		Victoria specia	
E&P EXEMPT IMPACTED SOIL 70			
VOLUME:			
FACILITY CONTACT:	<u>, 16. W</u>	<del>,</del>	011111
Chack Johnston		Signature	MARK
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Date:	7-02-18
NAME OF TRANSPORTER: (DRIVER)	<del></del>		C+ 150
			Jector B
		Signatura	: gifB
		Date:	r-02-18
DISPOSAL SITE:			S
R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388		Signature	= TMarinue
Hobbs, NM 88241.	•	Date:	7/2/18
		Vanguar Kyle Zim	d Operating, LLC merman



VANGUARD PERMIAN Customer:

Ordered by:

Manifest#:

Manif. Date:

AFE #:

PO #:

Hauler:

Truck #

Card#

Job Ref#

Driver

CRI5830 Customer#:

319085

7/2/2018

**HECTOR** 

150

CHUCK JOHNSTON

M MATA TRUCKING LLC

Bid #: Date:

Ticket#:

700-908495 Walk-in Bid 7/4/2018

VANGUARD Generator: Generator #:

03849 Well Ser. #:

Well Name:

ABO SWD ROC 002

Well#:

Field:

Field #: Rig:

NON-DRILLING

County

Date:

LEA (NM)

Facility: CRI Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards Cond. %Solids TDS PCI/GM MR/HR H2S Weight Lab Analysis: 50/51 0.00 0.00 Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste, RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above) Driveri Agent Signature R360 Representative Signature Customer Approval THIS IS NOT AN INVOICE!

Approved By:



#### NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Cong.	any Mantontag	Pinformation Christon

	10/1/			Filor	le No.
		GE	VERATOR	NO.	319085 .
Operator No.		, , , , , , , , , , , , , , , , , , , ,	Permit/RRC N		373003
(/An	avar C		Lease/Well	71.20	S.ID FA
	UNA U		Name & No.	<del></del>	700
Address			County		dilla
			AFI No.	· · · · · · · · · · · · · · · · · · ·	
City, State, Zip			Rig Name & f		- 1011 m
Phone No.			AFE/PO No.	<i>N01</i>	-annoy
	(EMPT E&P Waste/Servi	ce Identification and Amo	unt (place volume next.	o waste type in barrels or co	(bitc yards)
Oil 8ased Muds		ESTABLE WATERS			
Oil Based Cuttings Water Based Muds		:Water (Non-injectable)		Washout Water (injectable	
Water Based Cuttings		on Fluid/Flow back (Non-Injec I Water (Non-Injectable)	table)	<ul> <li>Completion Fluid/Flow bar</li> <li>Produced Water (Injectab)</li> </ul>	
Produced Formation Solids		g Line Water/Waste (Non-Inje	ctable)	Gathering Line Water/Wa	ste (Injectable)
Tank Bottoms  E&P Contaminated Soil		L'USE ONLY shout (exempt waste)		OTHER EXEMPTIWASTES (	ype and generation process of the waste)
Gas Plant Waste	IIIII VV	remort (exempt wasts)		1 /2e/K/	
WASTE GENERATION PROCESS:	DRILLING	G CO	MPLETION	PRODUCTION	GATHERING LINES
All a	mi-exempt F&P waste mist	NON-EXEMPT E&P Waste	a/Service identification and	Amount (TCLP), IgnitaSility Corrosivity a	nd Readdvity.
Non-Exempt Other		The state of the s		t from Non-Exempt Waste <u>List</u>	
QUANTITY 2.0	7	8 - BARRELS			
			L-LIQUID	Y - YARO	
i hereby certify that according to the load is (Greek the appropriate classif		Recovery Act (RCRA) and the	US Environmental Protection	n Agency's July 1988 regulatory o	latarmination, the above described waste
	•	om oil and gas exploration and	nroduction operations and	are not mived with too average	waste (RB60 Accepts certifications on a per
	oad basis only)	att all alla Bas avidiol driest and	production operations and	are not things with non-exempt	Haste (Abbonocapts cartifications on a per
RCRA NON-EXEMPT:	Dil field waste which is non-	hazardous that does not excee	d the minimum standards fo	or waste hazardous by character	istics established in RCRA regulations, 40 CFR
	26 <b>1.21-261,24</b> , or listed haze	ardous waste as defined by 40	CFR, part 261, subpart D, as		entation demonstrating the waste as non-
_	*	k the appropriate items as pro	ovided)		
	MSDS Information	RCRA Hazardous Was	te Analysis	Other (Provide Description	Below)
				nt of Public Safety (the order, do	cumentation of non-hazardous waste
China	determination and a descipt	ion of the waste must accomp	any this form)		
PRINTI AUTHORIZED AGENTS N	JUNISTON	<u> </u>	DATÉ		SIGNATURE
		- TO A A			SPURIORE
T		IRAN	ISPORTER		
Transporter's M-1	lata		Drīver's Name	HACAD	<u>^</u>
Address	wov - (		Print Name	1)00/0	, , , , , , , , , , , , , , , , , , , ,
<u> </u>		,	Phone No.	<u> </u>	
Phone No.			Truck No.	<del></del>	<del>(2)</del>
	1				
I hereby certify that the above name	d material(s) was/were picks	ed up at the Generator's site lis	ited above and delivered wit	thout incident to the disposal fac	illty listed below.
SHIPMENT DATE	ORIVER'S SIG	CHATHE		SLIVERY DATE	DRIVER'S SIGNATURE
		4	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
TRUCK TIN		DISPUS	AL FACILITY		CEIVING AREA
IN:	OUT:			Name/No.	<i>50/5/</i>
Site Name/		<del></del> .	Dhone Ma		
Permit No. Halfway Facility / I	IM1-006		Phone No.	575-393-1079	The state of the s
Address 6601 Hobbs Hwy L	15 62/180 Mile Marker 66 Ca	rlsbad, NM 88220			
NORM READINGS TA	KEN? (Circle One) ye:	s (NO)	If YES, was re	ading > 50 micro roentgens? (cir	cle one) YES NO
PASS THE PAINT FILTER T	EST? (Circle One)	YES Y	NO		$\mathcal{O}$
programmers to suggest the suggest of the suggest o	······································	TANK	BOTTOMS	مود د المودون و المودون الموادون المودون و المودون و المودون و المودون و المودون و المودون و المودون و المودون المودون و المودون و	and the second transmission and the second s
Fe	9 <i>t</i>	Inches			
1st Gauge		,		BS&W/BBLS Received	BS&W (%)
2nd Gauge				Free Water	
Received		,	<u> </u>	Total Received	
hereby certify that the above los	d material has hood sizels	onoj: ACCEPTED	DENIEG (£denied, w	Surl	
Comment and making about the	na material nos ottori (ci soci	7 7 6	April La	1191	4
THAT (POINT)	- Sa	10-16 W	MENN IN		
MANETPRINT)		DATE	TITLE	•	SIGNATURE
C 130 1000	n managaran	TO A SUBBOARD TO THE STATE OF T			Day to make a second of the second
C-138 White - R36	JURIGINAL Yellow	- TRANSPORTER COPY	Pink - GENERATOR	SITE COPY Gold - RETU	IRN TO GENERATOR Version 1



Customer:

Ordered by:

VANGUARD PERMIAN Customer #:

CRI5830

CHUCK JOHNSTON

AFE#: PO#:

Manifest#:

NA

Manif. Date:

Hauler: Driver

ORNALDO

Truck # Card# Job Ref# 7/17/2018 M MATA TRUCKING LLC

151

Ticket #: Bid#:

700-912175 Walk-in Bid

Date: Generator: 7/17/2018 VANGUARD

Generator #:

03849 Well Ser. #:

Well Name:

ABO SWD ROC 002

Wel! #: Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI Product Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards Cell рΗ ÇI %Solids TDS Cand. PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Evernty Oil Field wastes generated from all and a

The lead the state of the state
_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as
amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)
the supposition of the suppositi
Driver Agent Signature R380 Representative Signature

Customer Approval	en en en en en en en en en en en en en e

Approved By:	We will have been a great and the second of	Date:	

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	· · · · · · · · · · · · · · · · · · ·	
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Off John Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. Mata Transchab  VIII # 15/		Name: () Rys of of of of of of of of of of of of of
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE# PO#:

Manifest #:

Manif. Date: 6/21/2018 M MATA TRUCKING LLC

39

Hauler: JUAN Driver

Truck # Card # Job Ref# Ticket #: 700-904439 Bid #: Walk-in Bid

Date: 6/21/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #: Rig:

NON-DRILLING

LEA (NM) County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

TDS PCI/GM MR/HR H2S % Oil Weight Çell ρH CI Cond. %Solids Lab Analysis: 50/51 0.00 0.00 0.00 Ö

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_MSDS Information \_\_\_RCRA Hazardous Waste Analysis \_\_\_ Process Knowledge \_\_\_ Other (Provide description above)

		•
Driver/	Agent Signa	tufe

R360 Representative Signature \* \*\*\*

Customer Approval

į. .

Approved By:	Date	
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SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: A80 SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Chiffed Date: 6-50-18
NAME OF TRANSPORTER: (DRIVER) #79  20 Yard  MMaTa Trucking	Name: July 60/0017 Signature 13/00 Date: 6/20/18
DISPOSAL SITE: R36D Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature;
*	Date:
Direct Bill; Care Of:	Vanguard Operating, LLC Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	**************************************	
VOLUME: 20		
FACILITY CONTACT: Chuck Johns fon Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CALJAA  Date: 6-30-18
NAME OF TRANSPORTER: [DRIVER]  M. MATA TRUCKING  BOLLY DUMP  TRUCK # 150		Name: Julio Signature: 4  Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:  Date:
		Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest #:

Manif. Date: 6/21/2018 M MATA TRUCKING LLC

Hauler: Driver Truck #

LALO 150

Card# Job Ref# Ticket#: Bid #:

700-904440 Walk-in Bid 6/21/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Date:

Field #:

Rig:

NON-DRILLING

LEA (NM) County

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Нq Cond. %Solids TDS PCI/GM MR/HR H<sub>2</sub>S % Oil Weight Lab Analysis: 50/51 0.00 0.00

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wasterness. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
Customer Assessed	

Customer Approval

Approved By:	Date:	



<sup>3</sup>ermian Basin

Customer:	VANGUARD PERMIAN
Metamor #	CRIERRO

**ADRIAN** 

12

Customer#: CRI5830 Ordered by: CHUCK JOHNSTON

AFE#: PO #:

Manifest #: NA

Manif. Date: 6/21/2018 M MATA TRUCKING LLC Hauler:

Driver

Truck # Card # Job Ref#

Ticket #: 700-904444 Bid #: Walk-in Bid Date: 6/21/2018

Generator: Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: Field:

002

Field #: Rig:

NON-DRILLING

VANGUARD

County

LEA (NM)

Facility:	CRI
-----------	-----

Product / Service

Quantity Units "

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	Нq	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	: 50/51	0.00	0.00	0.00	n	······································			······	······································	

Senerator Certification Statement of Waste Status
hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

)river/	Agent	Signature
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R350 Representative Signature

**Sustomer Approval** 

Approved By:	Date:	

# TRANSPORTER'S MANIFEST SHIPPERS FACILITY NAME AND ADDRESS: LOCATION OF MATERIAL: Vanguard Operating, LLC Site: ABO SWD #2 4001 Penbrook, Suite 201, Odessa, TX 79762 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM 30-025-03849 API: TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: FACILITY CONTACT: Check Johnston Kyle Zimmermon-Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752 Date: M. Mata Trucking Truck #12 Signature: DISPOSAL SITE: R360 Halfway Facility 4507 W Carlshad Hwy PO Box 388 Hobbs, NM 88241 Date:

Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman



Gustomer:	VANGU
Customer#:	CRI5830
Ordered by:	CHUCK
AFF #	

PO #:

Manifest #:

Manif. Date: 6/21/2018 Hauler: M MATA TRUCKING LLC

Driver SAUL Truck # 38

Card # Job Ref# ARD PERMIAN

JOHNSTON

Ticket #. 700-904446 Walk-in Bid 6/21/2018 VANGUARD

Generator: Generator #:

Bid #:

Date:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well #:

Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

acility: C	RI
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roduct / Service

Quantity Units

iontaminated Soil (RCRA Exempt)

20.00 yards

Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis. 50/51	0.00	0.00	0.00	Q	<del>(146)-16-16-</del> 1	······································		······································	······································	

# ienerator Certification Statement of Waste Status

Carlotte State Control hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by paracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Tiver/	Agent	t Signa	ture
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R360 Representative Signature

ustomer Approval

pproved By:	Date:
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL **C**, Sec. 2, 7175, R35E Location: Lew Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chack Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)		#38
		Name: Saul Marine
		Signature: Cx. / / / / / Care 6
		Date: 6 - 2/ - /8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 38B Hobbs, NM 88241		Signature: 1 August 18
	Direct Bill: Care Of:	

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL 20	
VOLUME:	
FACILITY CONTACT: Chuck Johns for Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CALSAA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	
	Name: Hector B  Signature: 91 + B  Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	\$ignature;
	Date:
	Vanguard Operating, LLC Kyle Zimmerman



VANGUARD PERMIAN Customer: Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: NA

Manif. Date: 6/21/2018

Hauter: Driver

M MATA TRUCKING LLC **HECTOR** 

Truck # 151

Card # Job Ref# Ticket#: 700-904454 Bid #: Walk-in Bid 6/21/2018 Date: Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Cond. %Solids PCI/GM TDS MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_\_\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
7/1/3	
Customer Approval	

Approved By:	Date:	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~



VANGUARD PERMIAN Customer: Customer #: CRI5830

Ordered by: CHUCK JOHNTON

LALO

150

AFE#: PO #:

Manifest#: NA Manif. Date: 6/21/2018

Hauler: Driver Truck #

Card# Job Ref#

Ticket #: 700-904504 Bid #: Walk-in Bid Date: 6/21/2018 **VANGUARD** Generator:

Genérator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field#:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

20.00 yards

Contaminated Soil (RCRA Exempt)

Cell рH Ċ١ Cond. %Solids TDS PCI/GM MR/HR H2S % OII Weight Lab Analysis: 50/51 0.00 0.00 0.00

M MATA TRUCKING LLC

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driv	or!	Agent	Sians	tira
D118		MUULII	JILLIE	

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Approved By: Date:

1/1

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM AP1: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	······································	
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATA TYWELTNY  BOLLY DUMP  TRUCK # 1-30		Name: Jalo Signature: ET  Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signaturer J Maninur Date: 4 (2) (18
	Direct 8ili: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Legals: Location: API:	ABO SWD #2 UL "C", Sec. 2, T17S, R36E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DESCRIPTION OF WASTE:			
E&P EXEMPT IMPACTED SOIL			
VOLUME:			
FACILITY CONTACT: Chuck To has for Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Date:	CALPLA 6-30-18
NAME OF TRANSPORTER: (DRIVER) M MOTO	Trus	rking	j
NAME OF TRANSPORTER: (DRIVER) M MOTO		Name:	11 310
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature	·
		Date:	
		Vənguard Kyle Zimn	Operating, LLC nerman



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest #: NA

Manif. Date: 6/21/2018 M MATA TRUCKING LLC Hauler:

Driver Truck # JUAN 39

Card # Job Ref# Ticket #: Bid #:

700-904505 Walk-in Bid 6/21/2018 **VANGUARD** 

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: Field:

Date:

002

Field #: Rig: County

NON-DRILLING LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

ρH CI Cond. %Solids TDS PCI/GM MR/HR H<sub>2</sub>S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signatu	ure /	
		į
	1-6	-

R360 Representative Signature

**Customer Approval** 

Approved By: Date:	
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AFE #:	VANGUARD PERMIAN CRI5830 CHUCK JOHNSTON	Ticket #: Bid #; Date: Generator:	700-904506 Walk-in Bid 6/21/2018 VANGUARD
PO#:		Generator #:	
Manifest#:	NA	Well Ser. #:	03849
Manif. Date:	6/21/2018	Well Name:	ABO SWD ROC
Hauler:	M MATA TRUCKING LLC	Well#:	002
Driver	ADRIAN	Field:	
Truck#	12	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref#		County	LEA (NM)

			Job Ref#			C	ounty	LEA (NM)			
Facility: CRI											
Product / Serv	rice		Quantity Units								
Contaminated	Soil (RC	CRA Exer	npt)				20.00 ya	rds			
	Cell	рН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2\$	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						
Generator Certification Statement of Waste Status  I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:  X RCRA Exempt; Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261,21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)											
Driver/ Agent	Signatur	'e			R360 F	Represei	ıtative Sign	ature '		Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o	
Customer App	proval	<del>ara a</del> cir <del>a da ara ara ara ara ara ara ara ara a</del> ra ara a	oom aan oo oo biila dhoo oo oo oo daddadada	necessaries	***************************************			***************************************	TH.		
				THIS	IS NOT	AN II	VOICE	!			

Date:

Approved By:

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	***************************************	
DESCRIPTION OF WASTE:		
VOLUME: 20 XJ		
FACILITY CONTACT: Chack Johns for Kyle Zhronerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature:
NAME OF TRANSPORTER: (DRIVER)  M. Mata Trucking  Truck # 12		Name: Alley () Signature: Adright () Date: 6 - 21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241		Signature: JMG
		Vanguard Operating, LLC Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		<del></del>
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT:  Chack Johnston  Kyle Zimmermon  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Old flat  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	······································	#38
		Name: Saul Maryles
		Signature: Soul Mounte.  Date: 63-21-19
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	erente atgas servet architectula e especialmente acceptualmente acceptualmente acceptualmente acceptualmente a	Signature:
		Date:
	Direct Bill: Care Of	Vanguard Operating, LLC Kylc Zimmerraan



Product / Service

Customer:	VANGUARD PERMIAN	Ticket#:
Customer #:	CRI5830	Bid #:
Ordered by:	CHUCK JOHNSTON	Date:
AFE#:		Generator:
PO #:		Generator#
Manifest #:	NA	Well Ser. #:
Manif, Date:	6/21/2018	Well Name:
Hauler:	M MATA TRUCKING LLC	Well#:
Dríver	SAUL	Field:

38

Truck #

Card# Job Ref#

Facility: CRI

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Field #:

County

Rig:

700-904514 Walk-in Bid 6/21/2018 VANGUARD

ABO SWD ROC

NON-DRILLING

LEA (NM)

03849

002

 Cell
 pH
 Cl
 Cond.
 %Solids
 TDS
 PCI/GM
 MR/HR
 H2S
 % Oil
 Weight

 Lab Analysis:
 50/51
 0.00
 0.00
 0.00
 0

#### **Generator Certification Statement of Waste Status**

Member

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

\_\_\_ MSDS Information \_\_\_ RCRA Hazardous Waste Analysis \_\_\_ Process Knowledge \_\_\_ Other (Provide description above)

R360 Representative Signature

**Customer Approval** 



tian Basin

Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest#: NA

Manif. Date: 6/21/2018

151

Hauler:

M MATA TRUCKING LLC **HECTOR** 

Driver Truck #

Card# Job Ref# Ticket #:

700-904517 Walk-In Bid

Bid #: Date:

6/21/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well #: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

ity: CRI

uct / Service

Quantity Units

aminated Soil (RCRA Exempt)

20.00 yards

Cell DΗ CI Cond. %Solids TDS PCI/GM MR/HR H<sub>2</sub>S % Oil Weight Analysis: 50/51 0.00 0.00 0.00 ñ

#### arator Certification Statement of Waste Status

by certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July regulatory determination, the above described waste is:

!CRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-ICRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by cteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ded. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ASDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

r/ Agent Signature

R360 Representative Signature

omer Approval

THIS IS NOT AN INVOICE!

roved By: Date:

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6/21/2018 15 ...

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	**************************************	
VOLUME: 20		
FACILITY CONTACT:  Chuck Johnston  Kyle Zimmerman  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762		Signaturė: CALJAA  Date: 6-30-18
MAME OF TRANSPORTER: (DRIVER)  M. MGYA  #151		Name: 11cc1ox 13 Signature: 71-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	~	Signature: JMG  Date: UZI B
	Oirect Bill: Care Of:	Vanguard Operating, LLC Kyle Žimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

LALO

150

AFE #: PO #:

Manifest #: NA Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC

Driver Truck#

Card # Job Ref # Ticket#:

700-904554 Walk-in Bid

Bid #: Date:

6/21/2018 VANGUARD

Generator: Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC

ABO SW 002

Well #: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pH Cl Cond. %Solids TDS PCI/GM MR/HR H2S % 0il Weight Lab Analysis; 50/51 0.00 0.00 0.00 0

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wastRCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1). as
amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous, (Check the appropriate items):

MSDS Information \_\_RCRA Hazardous Waste Analysis \_\_Process Knowledge \_\_Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Approved By:

Date:

16UJF 1010CXO

12172 .

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241			
DESCRIPTION OF WASTE:	<u> </u>		
E&P EXEMPT IMPACTED SOIL			
VOLUME:			
FACILITY CONTACT: Chiele Johns fon Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>ChiphA</i> Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER)  M. MATH TRUCKING  BOWY DUMP  TWIKE # 150		Name: <i>Lalo</i> Signature: <i>E</i> T  Date: <i>G</i> - 21 - 18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 100 Autor	
		Vanguard Operating, LLC Kyle Zimmerman	



VANGUARD PERMIAN Customer: Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: NΑ Manif. Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC NAUL

Truck # 39

Card # Job Ref# Ticket #: 700-904556 Bid #: Walk-in Bld Date: 6/21/2018

Generator: VANGUARD

Generator #:

Well Ser. #. 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Field #: Rig;

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pН CI Cond. %Solids TDS PCI/GM MR/HR H25 % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste \_ RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart ID, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_\_ MSDS Information \_ RCRA Hazardons Waste Analysis Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

**Customer Approval** 

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX.79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS:	
M Mata Trucking,	
PO BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT:	2. 0.
Chrek Johnston	NH 114
Kyle Zimmerman	Signature:
Vanguard Operating, LLC	1 1= 10.
4001 Penbrook, Suite 201, Odessa, TX 79762	Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M Mata Tro	7 ,/ksna
1100 0001001	Trian 1 - land
#3920 Yard	Name: Juan Galaure
/	130
	Signaturd
	Date: 6/2//8
DISPOSAL SITE:	
R360 Halfway Facility	
4507 W Carlsbad Hwy	live (
PO Box 388	Signature:
Hobbs, NM 88241	
-	Date: 412118
Direct Bill	: Vanguard Operating, LLC
Care Of	: Kyle Zimmerman



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest #: NA Manif. Date: 6/21/2018

Hauler: Driver Truck #

ADRIAN 12

Card # Job Ref# Ticket #:

700-904560 Walk-in Bid

Bid #; W
Date: 6/2
Generator: VA

6/21/2018 VANGUARD

Generator #;

Well Ser, #; 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #:

Rig: County NON-DRILLING

LEA (NM)

'acility: CRI

roduct / Service

Quantity Units

contaminated Soil (RCRA Exempt)

12.00 yards

Cell pH C! Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight

## lenerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

M MATA TRUCKING LLC

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.2 [-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart I), as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information \_\_\_ RCRA Hazardous Waste Analysis \_\_\_ Process Knowledge \_\_\_ Other (Provide description above)

river/	Agent	Signature
--------	-------	-----------

R360 Representative Signature

ustomer Approval

pproved By	 Date:	
	Date:	*****

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
VOLUME: 20 X		
FACILITY CONTACT: Chuck Johns on Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: CALJAA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. Mata Trucking  Truck #12.		Name: Adrian 6 Signature: Adrian 6 Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	,	Signature: Market Date: W2L S
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN Customer#: CRI5830

Ordered by: CHUCKJ JOHNSTON

AFE#: PO #:

Manifest #: NA Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC SAUL

Driver Truck.# 38

Card# Job Ref# Ticket #: 700-904564 Bid #: Walk-in Bid Date: 6/21/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Field #:

Rig: NON-DRILLING County LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI σН Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 Õ

#### Generator Certification Statement of Waste Status

Marulour

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_MSDS Information \_\_\_RCRA Hazardous Waste Analysis \_\_\_Process Knowledge \_\_\_Other (Provide description above)

D	ιį	vet/	Age	nt S	ilan	ature

R360 Representative Signature

**Customer Approval** 

Approved By:		Date:	
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL *C*, Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>Oll fl.4</i> Oate: 6-30-18
NAME OF TRANSPORTER: (ORIVER)		<del>47-</del> 58
		Name: Seal Mail
		Signature: Cross Alexander
		Date:
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	,	Signature: A Market Date: A Market D
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

151

Ordered by: CHUCK JOHNSTON

AFE#: PO#

Manifest #: NA Manif. Date: 6/21/2018.

Hauler:

M MATA TRUCKING LLC HECTOR

Driver Truck #

Card# Job Ref# Ticket #: 700-904569 Bid #: Date:

Walk-in Bid 6/21/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

ABO SWD ROC Well Name:

002

Well #: Field:

Field #:

Rig: County

NON-DRILLING

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell ρH CI Cond. %Solids TDS PCI/GM MR/HR H25 % OII Weight Lab Analysis: 50/51 0.00 0,00 0.00 ñ

## Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

**Gustomer Approval** 

Approved By:	Date:
--------------	-------

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DESCRIPTION OF WASTE:		
VOLUME: 20 Nº2/5/		
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>Chiff</i> Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	managari Namasada anta Pelabanista	Name: <u>Flector B</u> Signature: <u>9148</u> Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: MCCO
		Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#; PO#;

Manifest #; NA Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC

Driver LALO
Truck # 150

Card # Job Ref # Ticket #: 700-904622
Bid #: Walk-in Bid
Date: 6/21/2018
Generator: VANGUARD

Generator: \
Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #;

Rig: NON-DRILLING
County LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soll (RCRA Exempt)

20.00 yards

Cell pH CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0

### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast \_\_RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 10, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

\_MSDS Information \_\_RCRA Hazardous Waste Analysis \_\_Process Knowledge \_\_Other (Provide description above)

Driver/	Agent	Signature
		- Summe

R360 Representative Signature

**Customer Approval** 

Approved By:		Date:	· ·
	<del></del>		

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM APi: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chrek Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Oldfld Date: 6-30-18
NAME OF TRANSPORTER: IDRIVERI M. MATA TRUCKING BOLLY DUMP TWUK HELSO	The second second second second second second second second second second second second second second second se	Name: Jule Signature: ET  Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: J. M. Auturnov.  Date: U. 21 18
ent tippy a see the paragraph, after the see of paragraph and additional and an extensive and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and th		Vanguard Operating, LLC



Customer: Customer#: CRI5830 Ordered by: CHUCK JOHNSTON AFE#: PO #: Manifest#:

Manif. Date: 6/21/2018 Hauler:

Driver

Card# Job Ref# VANGUARD PERMIAN

NA

M MATA TRUCKING LLC JUAN

Truck # 39 Ticket#: 700-904623 Bid#: Walk-in Bid Date: 6/21/2018

Generator: VANGUARD

Generator#:

Well Ser. #: 03849

Wéll Name: ABO SWD ROC

Well#: 002

Field: Field #:

NON-DRILLING

County

Rig:

LEA (NM)

Facility: CR	Į
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Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Ci ÞΗ Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 ñ

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis Process Knowledge \_\_\_ Other (Provide description above)

Driver/ Agent Signature
Customer Approval

R360 Representative Signature

Approved By:	Date:
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SHIPPERS FACILITY NAME AND AUDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R366 Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT:  Chnek Johnston  Kyle Zimmerman  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CALJAA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M Mata Tro	Name: Juan Galaurz Signatura: 449 Date: 6/2///8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MALL
Direct Bill: Care Of:	Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro



'ennian Basin

'acility: CRI

'roduct / Service

	_	<i>y</i> **		
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	,		٠. أ	
	Ļ.,	المعرفين	•	

Customer:

Manifest#:

AFE#:

PO#

Hauler:

Driver

Truck #

Card#

Job Ref#

Customer#: CRI5830

Manif. Date: 6/21/2018

Ordered by: CHUCK JOHNSTON

NA

SAUL

38

A	

iontaminated Soil (RCRA Exempt)

Quantity Units 20.00 yards

Ticket#:

Generator:

Generator #:

Well Ser. #;

Well Name:

Well #:

Field #:

County

Field:

Rig:

Bid #:

Date:

700-904640

Walk-in Bid

VANGUARD

ABO SWD ROC

NON-DRILLING

LEA (NM)

6/21/2018

03849

002

Cell рΗ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight ab Analysis: 50/51 0.00 0.00 0.00

## ienerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

VANGUARD PERMIAN

M MATA TRUCKING LLC

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by paracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardons. (Check the appropriate items): MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

ri	V	er/	Age	nt	Sig	nature	
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R360 Representative Signature

 <u> </u>		SV	Come	lew
	-			

ustomer Approval

pproved By:	Date:
	**************************************

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	<del>(************************************</del>	
DESCRIPTION OF WASTE:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Chiff
NAME OF TRANSPORTER; (DRIVER)		77-38
		Name: Sul Marie
		Signature: / Live be
		Date: 6-21-(9)
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	i.	Signature; MAD
		Vanguard Operating, LLC Kyle Zimmerman



Customer:	VANGUARD PERMIAN
Customer #:	CRI5830

Ordered by: CHUCK JOHNSTON

151

AFE#: PO #:

Manifest#: NA Manif. Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC **HECTOR** 

Truck # Card# Job Ref# Ticket#: 700-904644 Bid #: Walk-in Bid Date:

6/21/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #: Rig: County

NON-DRILLING LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI %Solids Cond. TDS PCI/GM MR/HR H25 % Oil Weight Lab Analysis, 50/51 0.00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast " RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 10, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
7/1/13	
Customer Angroyal	

Approved By:	 Date:	
		,.,

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	<del>"</del>	
E&P EXEMPT IMPACTED SOIL  VOLUME: 20 151		
FACILITY CONTACT:  Chack Johnston  Kyle Zimmerman  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)		Name: <i>Hector B</i> Signature: 948  Date: 6-21-18
Olsposal site: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	-	Signature:
		Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest #: NA

Manif. Date: 6/22/2018 Hauler: M MATA TRUCKING LLC

Driver Truck #

JUAN 39

Card # Job Ref# Ticket #: Bid #:

700-904788 Walk-in Bid

Date: 6/22/2018 Generator: **VANGUARD** 

Generator #:

Well Ser # 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell C1 Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

## Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above) \_\_\_ MSDS Information

Driver/ Agent	Signature	13
---------------	-----------	----

R360 Representative Signature

**Customer Approval** 

Approved By:	Date:
--------------	-------

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M Mata Tro	cking
#3920 yord	Name: Such Galaure Signature: 440 Date: 6/2//8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: JMC
Direct Bill Care Of	: Vanguard Operating, LLC : Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Legals: Location: API:	ABO SWD #2 UL "C", Sec, 2, T175, R36E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241			
DESCRIPTION OF WASTE:  E&P EXEMPT IMPACTED SOIL  VOLUME:			
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature; Date:	Cheph4 6-30-18
NAME OF TRANSPORTER JORIVER) M Material Mark # 12	a True	Name: Signature: Date:	Adrian 6 199 12, 118
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:	JMrs (18
	Direct Bill: Care Of:	Vanguard ( Kyle Zimme	Operating, LLC erman



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest#: NA Manif. Date: 6/22/2018

12

Hauler: Driver

M MATA TRUCKING LLC **ADRIAN** 

Truck #

Card # Job Ref#

700~904789 Ticket #: Bid #: Walk-in Bid Date: 6/22/2018

Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #:

Rig: NON-DRILLING County LEA (NM)

acility: CRI

roduct / Service

Quantity Units

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell CI Cond. %Solids TD5 PCI/GM MR/HR H<sub>2</sub>S % Oil Weight ab Analysis: 50/51 0.00 0.00

### enerator Certification Statement of Waste Status

tereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 388 regulatory determination, the above described waste is:

K RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by paracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 12, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

river/ Agent Signature	R360 Representative Signature
Adran (	1/1/4
ustomer Approval	

pproved By:	Date:
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Facility: CRI

Customer:
 Customer#
Ordered by
AFE#:
PO#:
Manifest #:
Manif. Date

Customer#: CRI5830 Ordered by: CHUCK JOHNSTON AFE#: PO#: Manifest #: NA Manif. Date: 6/22/2018 Hauler: M MATA TRUCKING LLC

VANGUARD PERMIAN

Driver SAUL Truck # 38

Card# Job Ref#

Ticket #: 700-904790 Bid #: Walk-in Bid Date: 6/22/2018 Generator: **VANGUARD** Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #: Ria:

NON-DRILLING

County LEA (NM)

Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards

Cell ρН CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 n

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D. us amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

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_ ) (NO)	Made	
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R360 Representative Signature

**Customer Approval** 

Drivar/ Ament Simuatura

pproved By:	Date:
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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:		
VOLUME:		
FACILITY CONTACT: Chick Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762		Signature: Oldfld  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATA TRUCKING  BOLLY DUMP  THUCK # 150  38		Name: Late Saul Signature: ET  Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: J Martin
	Direct Bilt: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Legals: Location: API:	ABO SWD #2 UL "C", Sec. 2, T175, R36E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241			
DESCRIPTION OF WASTE:  E&P EXEMPT IMPACTED SQIL  VOLUME:			manamana, sagaga pagangan kanamanan kanamanan kanaman kanaman kanaman kanaman kanaman kanaman kanaman kanaman
FACILITY CONTACT: Chrek Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	va	Signature: Date:	Chfh4 6-30-18
NAME OF TRANSPORTER (DRIVER) M Mate #39 20 yard  Truck #12	2 True	Name: 1 Signaturd: Date: 6	Adrian G 140 121/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:	Mrs ulsilis
	Direct Bill: Care Of:	-	Operating, LLC erman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest #: NA

Manif, Date: 6/22/2018

Hauler:

M MATA TRUCKING LLC

Driver ADRIÁN Truck # 12

Card # Job Ref# Ticket #: 700-904789 Bid #:

Walk-in Bid Date: 6/22/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

acility: CRI

roduct / Service

#### **Quantity Units**

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight ab Analysis, 50/51 0.00 0.00

## enerator Certification Statement of Waste Status

nereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 388 regulatory determination, the above described waste is:

K RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by aracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as nended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge \_ Other (Provide description above)

river/ Agent Signature	R360 Representative Signature
Adria (	12/19
ustomer Approval	

pproved By:	Date:
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	Gustomer:	VANGUARD PERMIAN
	Customer #:	
360		CHUCK JOHNSTON
EMILIBRIVATERITAL ( 1960)	Manifest #:	NA
STRUMINS English	Manif. Date:	6/22/2018
Permian Basin	Hauler: Driver Truck # Card # Job Ref #	M MATA TRUCKING LLC JUAN 39
Facility: CRI		

Approved By:

Ticket #:	700-904823
Bid #:	Walk-in Bid
Date:	6/22/2018
Generator:	VANGUARD
Generator#;	
Well Ser. #:	03849
Well Name:	ABO SWD ROC
Well#:	002
Field:	
Field #:	
Ríg:	NON-DRILLING
County	LEA (NM)

Date:

Facility: CRI											
Product / Serv	/ice					Q	uantity Uni	ts			
Contaminated	Soil (R	CRA Exen	npt)				20.00 ya	rds			
	Cell	рН	CI	Cond,	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0			***************************************	······································	<del></del>	***************************************
1 hereby certify to 1988 regulatory  X RCRA Exen  RCRA Non- characteristics estimated. The farm MSDS Information of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver of the priver o	determina hpt: Oil F Exempt: htablished fillowing of mation	ition, the ablication, the ablication wastes Oil field wastes in RCRA refocumentateRCRA	ove descri generated aste which regulations tion is attac	ibed waste : from oil an is non-haze , 40 CFR 2 thed to dem	is:  Id gas explora  Id gas explora  Idous that do   tion and p es not exc or listed had bove-desc rocess Kno	roduction op eed the mining exardous was cribed waste i	erations and a num standard te as defined s non-hazard Other (Prov	are not mix is for waste in 40 CPR, ous (Check	ed with nor hazardous part 261, se	n-exempt wast- by ubpart D, as priate items to	
Customer App	roval		(20)	THIS I	S NOT	AN IN	IVOICE	'N			

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Legals: Location: API:	ABO SWD #2 UL "C", Sec. 2, T17S, R36E Lea Co, NM 30-025-03849
TRANSPORTERS NAME AND ADDRESS:			<del>144, 144, 145, 145, 145, 145, 145, 145, </del>
M Mata Trucking, PO 80X 1263.			
Hobbs, NM, 88241			
	······	***************************************	
DESCRIPTION OF WASTE:			
E&P EXEMPT IMPACTED SOIL			
VOLUME:			
Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market	······································		
FACILITY CONTACT:			<i>i</i> 2
Chuck Johnston			All ISA
<del>Kyle Zimmerman</del>		Signature:	Chipar
Vanguard Operating, LLC			1-10-10
4001 Penbrook, Suite 201, Odessa, TX 79762		Date:	G = 30 - 18
NAME OF TRANSPORTER (DRIVER)	1	el ("	
NAME OF TRANSPORTER: (DRIVER) M Mate	~ /10	16119	
#3920Vaid		Name:	van Galaur
7		Signature	120
			Jo. 110
		Date: ()	12110
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DISPOSAL SITE:			
R360 Halfway Facility 4507 W Carlshad Hwy			1400
PO Box 388		Signature:_	MI KEETS)
Hobbs, NM 88241		Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	ハ・レくコ
			. Inalist
	7	Date:	wiceles
	Dienet Mil.	\$ to us on a sure of the	200.18
	Direct Bill: Care Of:	Vanguaro C Kyle Zimme	Operating, LLC



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest #: NA Manif. Date: 6/22/2018

Hauler. Driver M MATA TRUCKING LLC ADRIAN

Driver AL Truck # 12

Card# Job Ref# Ticket #: 700-904827
Bid #: Walk-in Bid
Date: 6/22/2018
Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #:

Rig: NON-DRILLING

County LEA (NM)

facility: CRI

Product / Service

Quaritity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell рΗ  $\mathbf{C}\mathbf{I}$ Cond. %Solids TDS PCI/GM MR/HR H2S % OII Weight ab Analysis: 50/51 0.00 0.00 0.00 Ö

#### Jenerator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast—RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

\_\_MSDS Information \_\_RCRA Hazardous Waste Analysis \_\_Process Knowledge \_\_Other (Provide description above)

	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	SC.
Arly 19 1	R360 Representative Signature	
Sustamer Approval		
	THIS IS NOT AN INVOICE!	

Approved By:	Date:	***************************************

"MANSPORTER'S M	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	
Vanguard Operation 11 c	LOCATION OF MATERIAL:
TRANSPORTERS MAAGE AND	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
M Mata Trucking, PO BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chuck Johnston	011111
/anguard Operating, LLC	Signature:
1001 Penbrook, Sulte 201, Odessa, TX 79762	Date: 6-30-19
VAME OF TRANSPORTER (ORIVER) M MATA Tro.	
Twek #12	Name: Signature: And
	Date: 6/2)//8
HSPOSAL SITE:	***************************************
360 Halfway Facility :507 W Carlsbad Hwy PO Box 388	Signature:
ноbbs, NM 98241 	Date: UZUB
	Vanguard Operating, 比C Kyle Zimmerman

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATIO	ON OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: Legals: Location: API:	ABO SWD #2 UL "C", Sec. 2, T17S, R36E Lea Co, NM 30-025-03849	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241				
DESCRIPTION OF WASTE:				
E&P EXEMPT IMPACTED SOIL				
VOLUME:				
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature Date:	Chlph4 6-30-18	
NAME OF TRANSPORTER: (DRIVER)  M. MARIA TRUCKING  BOLLY DUMP  TWILE TO 18		Name: Signature Date:(	Falo Saul E-7 6-21-18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:	ymantone Uzelis	
	Direct Bill: Care Of:	Vanguard Kyle Zimn	Operating, LLC nerman	



nian Basin

Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest#: NA

Manif. Date: 6/22/2018

Hauler:

M MATA TRUCKING LLC SAUL

Driver Truck #

Card# Job Ref# Ticket #: 7 Bid #: \

700-904828 Walk-in Bid 6/22/2018

Date: 6/22/2018 Generator: VANGUARD

Generator #:

Well Ser, #: 03849

Well Name: ABO SWD ROC Well #: 002

·,

Field:

Field #:

Rig: County NON-DRILLING

unty LEA (NM)

lity: CRI

**Juct / Service** 

Quantity Units

taminated Soil (RCRA Exempt)

20,00 yards

Cell pH Cl Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Analysis; 50/51 0.00 0.00 0.00 0

#### erator Certification Statement of Waste Status

eby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July regulatory determination, the above described waste is:

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by acteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as ided. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information \_\_\_\_ RCRA Hazardous Waste Analysis \_\_\_\_ Process Knowledge \_\_\_\_ Other (Provide description above)

er/ Age	nt Signature
<u>כר</u> ט	1 Marileane

R360 Representative Signature

tomer Approval

oved By:	Date:	
		NOTICE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PRO

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SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241  DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL  VOLUME: 20		
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Off John Signature: 6-30-18
NAME OF TRANSPORTER: (ORIVER)  M. MATA TRUCKING  BOLLY DUMP  TYWER # 450		Name:
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: T. Mulinu?  Date: 422 18
	Direct Bill: Care Of	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

150

AFE #:

PO#:

Manifest #: NΑ Manif. Date: 6/22/2018

Hauler: Driver

M MATA TRUCKING LLC LALO

Truck # Card# Job Ref# Ticket #: Bid #:

Date:

700-904836 Walk-in Bid 6/22/2018

Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Field #:

Rig;

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell pН C) %Solids PCI/GM Cond. TDS MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

#### Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart 1), as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature	R360 Représentative Signature
***************************************	
Customer Americal	

Customer Approval

Approved By:	Date:
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Customer: VANGUARD PERMIAN Customer #: CRI5830 Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest #: NA Manif. Date: 6/22/2018

Hauler: Driver

M MATA TRUCKING LLC **ADRIAN** 

Truck# 12

Card # Job Ref# Ticket#: 700-904867 Bid #: Walk-in Bid Date:

6/22/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849 ABO SWD ROC

Well Name: Well#:

002

Field:

Field #:

Rig: County

NON-DRILLING

LEA (NM)

Facility:	CKI
Product	/ Service

#### Quantity Units

Contaminated Soil (RCRA Exempt)

20,00 yards

Cell þΗ CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00

#### **Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast-\_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_ MSDS Information \_\_ RCRA Hazardous Waste Analysis \_\_ Process Knowledge \_\_ Other (Provide description above)

Driver)	Agent	Signa	ture
Λ	_	_	

R360 Representative Signature

**Customer Approval** 

Approved By:		Date:	
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TRANSPORTER'S	MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:  Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762  IRANSPORTERS NAME AND ADDRESS:	LOCATION OF MATERIAL:  Site: ABO SWD #2 Legals: UL "C", Sec. 2, T17S, R36E Location: Lea Co, NM API: 30-025-03849
PO BOX 1263, Hobbs, NM, 88241  DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL VOLUME:	
FACILITY CONTACT: Chuck Johns fon Kyle Eliminermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CALJA  Date: 6-30-18
NAME OF TRANSPORTER IDRIVER M MOTA To #39 20 1/06d  Truck #12	Name: Josephan G Name: Josephan G Signatura: 430 Date: 6/2//8
DISFOSAL SITE: R350 Halfway Facility 4507 W Carlsbud Hwy PO Box 388 Hobbs, NM 88241	Signature: MY
Direct Bill Care Of	The second opening the second

SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:				
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-025-03849				
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241  DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL  VOLUME:						
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		5ignature: <i>ChiphA</i> Date: 6-30-18				
NAME OF TRANSPORTER: (DRIVER)  M. MATA TRUCKING  BELLY DUMP  THUR # 150  38		Name: Later Saul Signature: E-V Date: G-21-18				
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 1 2018  Date: U2018				
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action												
					<b>OPERAT</b>	OR	$\boxtimes$	Initial Repo	ort	☐ Final	Report	
				Contact: Chuck Johnston								
Address: 4001 Penbrook, Suite 201, Odessa Texas 79762				No. 432-202-47								
Facility Nau	me: ABO	SWD #2				Facility Typ	e: Tank Battery	/				
Surface Ow	ner: State			Mineral C	Owner		API No.					
				LOCA	TIO	N OF REL	EASE					
Unit Letter	Section	Township	Range	Feet from the		th/South Line	Feet from the	East/West	Line		County	
С	2	175	36Ĕ								Lea	
			<u> </u>					<u> </u>			-	
			La	titude: <u>N 32.86</u>	58700°	Longitude	: <u>W 103.326070</u>	<u>)°</u>				
				NAT	ÚRE	OF RELE	ASE					
Type of Rele							Release: unknow		lume Recove			
Source of Re	lease: Tanl	Battery				Date and H	lour of Occurrence		te and Hour ( storic	of Disc	overy:	
Was Immedi	ate Notice (	iven?				If YES, To	Whom?	III	toric			
			Yes 🗵	No 🔲 Not Re	equire							
By Whom?						Date and H						
Was a Water	course Read		Yes 🛛	l No		If YES, Volume Impacting the Watercourse:						
						Not Applicable						
If a Watercot	irse was Im	pacted, Descr	ibe Fully.	' Not Applicable		REC	EIVED					
		em and Reme uced water f		Taken.* tank battery.		By O	livia Yu a	t 9:07 a	am, Se <sub>l</sub>	p <b>2</b> 1	1, 2017	
		and Cleanup / use areas from			s will l	be collected and	i sent to the lab fo	or testing.				
regulations al public health should their or or the environ	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptano idequately ICD accep	d/or file certain re te of a C-141 repo investigate and r	elease ort by t emedia	notifications ar he NMOCD ma ate contamination	knowledge and und perform correct arked as "Final Roon that pose a three the operator of a	tive actions eport" does t eat to ground	for releases v not relieve th I water, surfa	which re opera	may endang ator of liabil ter, human h	er lity nealth
	11	11					OIL CONS	SERVAT	ION DIV	<u>ISIO</u>	N	
Signature: M A A		Approved by	Environmental S	necialist:	M	-						
Printed Name	: Chuck Jo	hnston				71pproved by	<u></u>					
Title: EHS						Approval Date	9/21/201	7 Expir	ation Date:			
E-mail Addre	ss: cjohnste	on@vnrllc.com	n			Conditions of	Approval:		A 44.	ached		
Date: 9-				432-202-4771		see att	ached dire	ctive	Alla	LUCU		
Attach Addition	onal Sheet	s If Necessar	v									

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