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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NSAP0110037006
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Kesp	onsible i	arty					
Responsible	Party Conta	ngo Resources, LI	LC	OGR	ID 330447					
Contact Nam	ne Chet	Stuart		Cont	act Telephone 713-22	36-7530				
Contact emai	Cstua	art@Contango.con	1		Incident # (assigned by OCD) NSAP0110037006					
Contact mail	ing address	717 Texas Ave, S	uite 2900, Housto	on, TX 77002						
			Location		e Source					
Latitude 32	868618		(NAD 83 in dec		ude <u>-103.3263931</u> 5 decimal places)	-				
Site Name A	BO SWD R	OC #002		Site 7	ype Salt Water Dispos	al Surface Facility				
Date Release				API#	(if applicable) 30-025-0	3849				
Unit Letter	Section	Township	Range		County					
С	02	17S	36E		Lea					
Surface Owner	r: X State	☐ Federal ☐ Tr	ibal	Vame:)				
			Nature and	l Volume	of Release					
	Materia	l(s) Released (Select al	I that apply and attach	calculations or s	pecific justification for the	e volumes provided below)				
X Crude Oil		Volume Release			Volume Reco					
X Produced	Water	Volume Release	d (bbls)		Volume Reco	overed (bbls)				
		Is the concentrat	ion of dissolved cl >10,000 mg/l?	hloride in the	☐ Yes ☐ N	No				
Condensa	ite	Volume Release	d (bbls)		Volume Reco	overed (bbls)				
Natural G	ias	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Wei	ght Recovered (provide units)				
C CD 1		1			1					

Cause of Release

NMOCD incident notes report the following:

"LEAK IN A DRAIN ON TANK. REPLACED VALVE AND NIPPLE GOING TO THE TANK. 2093 SQ' INSIDE WELL YARD ALL SOAKED IN NONE RECOVERED. ESTIMATED WE LOST ABOUT 20 BBLS ON TO THE GROUND. ALLOS DRYING AND CHECKING FOR CHLORIDES AND TPH. WILL FOLLOW SPILL & LEAK REMEDIATION WORK PLAN. SAMPLES WERE TAKEN AT SURFACE AND AT 18' SENT TO LAB FOR ANALYTICAL RESULTS. GYPSUM WILL BE APPLIED TO THE LOCATION SO AS NOT TO DISTURB THE PAD"

The attached Closure Report, provides the history of this site as Contango understands it in relation to this release and the subsequent releases located at the ABO SWD ROC #002 surface facility.

Received by OCD: 3/20/2023 9:14:06 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page	2	of	2	6	3

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☒ No		
IEVEC i 1i-4	-tiittthOCD2 Drowdrow2 Tot	2 W/l
II YES, was immediate no	otice given to the OCD? By whom? To wi	om? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
regulations all operators are	required to report and/or file certain release noti	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a three	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name:	Chet Stuart	Title: Manager- Operations Support
Printed Name:	t Stuart	Date: 3/20/23
e _{mail:} cstuart@c	contango.com	Telephone: 713-236-7530
		•
OCD Only		
-	un Hariman	Date: 04/16/2023
Received by:	<u>/n Harimon</u>	Date:

Page 3 of 265

Incident ID NSAP0110037006
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of	nations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Manager- Operations Support
OCD Only	
Received by: Jocelyn Harimon	Date:04/14/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:04/14/2023
Printed Name: Jocelyn Harimon	Title: Environmental Specialist

ABO SWD ROC #002 Closure Report

Contango Resources, LLC (330447) the current owner of the ABO SWD ROC #002 respectfully requests that NMOCD review the attached documentation and historic description of events provided below to complete the close out of Incident NSAP011037006.

Site Background (two (2) legacy spills):

- The first minor release (<20 barrels) of crude was from a leaking valve/connection, impacting approximately 2093 sq. ft. inside the "well yard" (incident number NSAP0110037006) in 2001.
 We were able to locate one (1) record regarding this incident that can be accessed within the NMOCD E-permitting incident search. The information in this record establishes three key points:
 - 1) the location of the release,
 - o 2) the status as a minor release, i.e., less than 20 barrels, and
 - 3) a spill & leak remediation plan had been communicated to OCD and soils samples at surface and a depth of 18' were collected and sent for analysis.

There were no additional records found for this release in the OCD system and no record of an RP number being assigned. However, we were able to use Google Earth to capture images of the site over time to better understand the locations of equipment, tanks, and berms, and provide that collation in the attached file (ABO SWD ROC #002 Historic Aerial Images.pdf). These images allow us to correlate the overlapping locations of the two independent incidents.

• The second release (NOY1726455140 2017 and 1RP-4817) occurred in 2017 and remediation of the site completed in 2018 under the guidance and supervision of OCD. Per our communications with Mike Bratcher, the records have been updated to officially close out 1RP-4817 within the OCD system. The site was owned by Vanguard Operating at the time and encompassed an area larger than the legacy release from 2001 and overlapped the area of that initial release. Records from the delineation of the 2017 release, implementation of the approved remediation plan, and the analytical results obtained demonstrating "clean margins", all reflect that this site was cleaned to the established standards allowing OCD to close the site and determine that "no further action is required".

Analysis of Legacy Releases:

Attached for reference are the delineation locations and the release boundaries that were remediated for 1RP-4817 (Microsoft Word – ABO SWD 2 – Closure Report.docx.pdf). As you will note, the 2001 release (<20 barrels) were fully contained within the area of the successful remediation conducted in 2017 for 1RP-4817. This allows one to logically conclude that any residual contamination from the 2001 release was also (if it had not already been) remediated based on the analytical results obtained. In the absence of official records from OCD relating to the 2001 release, we respectfully request that, based on the logical sequence of events presented above and the analytical results attached demonstrating the common site of the two incidents has been successfully remediated.

NOY1726455140 2017 and 1RP-4817 Records:

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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FIGURES

Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH and Chloride in Soil

APPENDICES

 $Appendix \ A-Laboratory \ Analytical \ Reports$

Appendix B – Photographic Log

Appendix C – Disposal Manifests

Appendix D – Release Notification and Corrective Action (Form C-141)

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 #2 (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

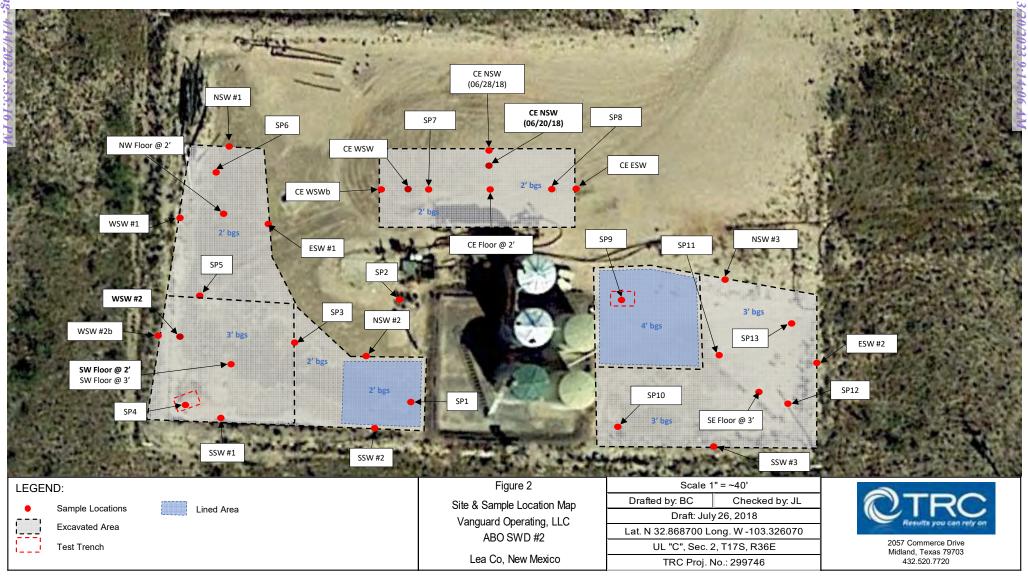


TABLE 1

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

	1	1	ſ	MET	HODS: SW 846		tions are reporte	ed in mg/kg	м	ETHOD: SW 801	ISM		E 300.1	SM4500CI-B
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE		ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO			TOTAL TPH C ₆ -C ₃₅	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	-	1,550	-	-	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
SP4 (Surface)	06/19/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	13,700	-	13,700	-	-	464
SP4 (2')	06/19/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	647	-	647	-	-	144
SP5 (Surface)	06/20/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	207		207	I	I	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
1 7														
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
GP0 (G . C .)	0.000.00	I	-0.050	-0.050	-0.050	-0.150	-0.200	-10.0	25.6	1	25.6	ı	T	640
SP8 (Surface) SP8 (16')	06/20/17 06/20/17	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	25.6 <10.0	-	25.6 <10.0	-	-	640 32.0
510 (10)	00/20/17	D	-0.050	-0.055	-0.033	-0.130	-0.500	-10.0	-10.0		-10.0			32.0
SP9 (Surface)	06/23/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<50.0	1180	-	1,180	-	-	2,800
SP9 (4')	06/23/17	Risked	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<u> </u>	<10.0	-	-	1,280
SP10 (Surface)	06/27/17	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	l -	<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	Excavated	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	50.3	-	50.3	-	-	6,160
SP12 (14')	06/28/17	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	-	<10.0	-	-	48.0
GD12 (G . C .)	0.6/20/12	I	-0.050	-0.050	-0.050	.0.150	-0.200	-10.0	40.0	1	40.0		T	5 040
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
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')	06/20/18	Excavated		-	-	-	-	<3.94	30.8	<24.8	-	30.8	629	-
CE ESW (1.5') CE WSW (1.5')	06/20/18 06/20/18	In-Situ Excavated	-	-	-	-	-	<3.71 <8.00	<25.2 868	<25.2 198	-	<25.2 1,066	229 547	-
SSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.75	196	176	-	372	<25.0	-
SSW #2 (1.5')	06/20/18	In-Situ	-	-	-	-	-	< 3.90	<25.0	<25.0	-	<25.0	399	-
SSW #3 (1.5')	06/20/18	In-Situ	-	-	,	-	-	<3.66	38.1	<25.2	-	38.1	99.6	-
WSW #1 (1.5') WSW #2 (1.5')	06/20/18 06/20/18	In-Situ Excavated	-	-	-	-	-	<3.77 24.3	249 1,890	126 441	-	375 2,355.3	93.4 157	-
NSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.79	26.1	25.3	-	51.4	491	-
NSW #2 (1.5')	06/20/18	In-Situ	-	-	-	-	-	< 3.70	94.2	33.8	-	128	128	-
NSW #3 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.98	<25.2	<25.2	-	<25.2	183	-
ESW #1 (1.5') ESW #2 (1.5')	06/20/18 06/20/18	In-Situ In-Situ	-	-	-	-	-	<3.96 <3.65	<25.0 <24.8	<25.0 <24.8	-	<25.0 <24.8	447 545	-
LOTT #2 (1.3)	00/20/10	in-onu						-5.05	-24.0	-24.0		124.0	J#J	
NW Floor @ 2'		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	-
52 1 1001 (B) 5	00.20/10	onu						-15.0	.07					
WSW #2b (1')	06/28/18	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	-	<15.0	-	-
CE WSWb (1')	06/28/18	In-Situ	-	-	-	-	-	<15.0	131	24.1	-	151.1	- 242	-
CE NSW (1')	06/28/18	In-Situ	-	-	-	-	-	-	-	-	-	-	342	-
SW Floor (3')	07/17/18	Excavated	-	-	-	-	-	<14.9	<14.9	<14.9	-	<14.9	-	-
NMOCD Site Classification Criteria	-	-	10	-		-	50	-	-	-	1,	000	6	00
CINCIIA	-		1					1						



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 www.tceq.texas.gov/field/ga/lab 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



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: 06/19/2017

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	Analyzed 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 %	% 34.7-15	7						

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Celey D. Keene



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: 06/19/2017

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 (26') (H701703-02)

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 %	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	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 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7 9	% 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: 06/19/2017

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		Analyze	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 %	6 72-148							
Chloride, SM4500CI-B	mg/l	kg	Analyzed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	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 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 %	6 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: 06/19/2017

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/l	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/l	kg	Analyzed 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/l	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 %	6 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	104 %	34.7-15	7						

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06/19/2017

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 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 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	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 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	164 %	6 34.7-15	7						

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Celey D. Keene



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: 06/19/2017

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 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	Analyze	d 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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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: 06/19/2017

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		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	% 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	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						
Surrogate: 1-Chlorooctadecane	524 9	% 34.7-15	7						

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Celeg D. Freene



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: 06/19/2017

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	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 %	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	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 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	115 %	6 34.7-15	7						

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06/20/2017

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 5 (SURFACE) (H701703-09)

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 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	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 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	122 %	6 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:

06/20/2017 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	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 %	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	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 %	<i>28.3-16</i>	4						
Surrogate: 1-Chlorooctadecane	111 %	34.7-15	7						

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06/20/2017

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 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 %	% 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 %	% 34.7-15	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: 06/20/2017

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	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	102 %	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	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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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: 06/20/2017

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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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: 06/20/2017

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	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 %	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	16.0	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	96.79	28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 %	6 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: 06/20/2017

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 (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 9	% 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: 06/20/2017

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 %	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	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 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	108 %	6 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: 06/23/2017

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)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % R	% 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, SM4500CI-B	mg/kg		Analyzed 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		Analyzed 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						
Surrogate: 1-Chlorooctadecane	146 9	% 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: 06/23/2017

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)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% 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		Analyzed 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	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	98.8 9	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	104 %	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: 06/27/2017

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)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% 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 %	6 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	896	16.0	06/30/2017	ND	432	108	400	0.00	
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	102 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 %	6 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: 06/27/2017

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 %	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	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 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 %	6 34.7-15	7						

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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 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 %	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	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 9	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	109 %	% 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 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 %	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	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 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 %	6 34.7-15	7						

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Analytical Results For:

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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 (SURFACE) (H701703-23)

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	2.03	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	Analyze	d 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	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	50.3	10.0	06/30/2017	ND	222	111	200	2.84	
Surrogate: 1-Chlorooctane	99.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 %	6 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 Sample Received By: Project Number: UL-C SEC.2, T17S, R36E Jodi Henson

Project Location: **VANGUARD**

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

BTEX 8021B	mg/kg		Analyze	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	2.03	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 %	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	48.0	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	91.3 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.2 9	% 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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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 (14') (H701703-26)

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	2.03	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 %	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	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 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.3 9	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QM-07

** 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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Page 29 of 31

Environmental Plus, Inc.

Page 2 of 3

Page 30 of 31

Chain of Custody Form

LAB

Cardinal

Relinquished

Date 6-28-17 Time 2:00 pm

26 28 SP13 (14')

30

29 SP13 (Surface)

SP12 (14")

G G

G

× × ×

×

28-Jun-17 28-Jun-17

28-Jun-17

livered by:

11.10

Sample Cool & Intact (es) No

checked By

inquished by

Client Company EPI Phone#/Fax# City, State, Zip

> 575-394-3481 / 575-394-2601 **Eunice New Mexico 88231**

Vanguard ABO SWD #2

Facility Name

_ocation

Project Reference

EPI Sampler Name

David Robinson

MATRIX

UL- C Sec. 2,

T17S,

R36E

Attn: Daniel Dominguez

Eunice, NM 88231

P.O. Box 1558

PRESERV.

SAMPLING

H7DI7D3

20

21 SP10 (Surface) 22 SP10 (26")

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G

×

×

28-Jun-17

28-Jun-17 28-Jun-17 27-Jun-17 27-Jun-17

× ×

2.1 28 SP11 (Surface) 11 24 SP11 (18')

13 25 SP12 (Surface)

LAB I.D.

SAMPLE I.D.

(G)RAB OR (C)OMP.

CONTAINERS **GROUND WATER** WASTEWATER

SOIL

CRUDE OIL

SLUDGE

OTHER:

ACID/BASE

ICE/COOL

OTHER

DATE

TIME

pH TCLP

PAH

BTEX 8021B

TPH 8015M

OTHER >>>

CHLORIDES (CI')

SULFATES (SO4")

Released to Imaging: 4/14/2023 3:35:16 PM

& bboone.epi@gmail.com

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

NOTES

Page 3 of 3



Certificate of Analysis Summary 589613

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

Page 48 o

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	001	589613-0	02	589613-0	03	589613-0	04			
Analysis Paguastad	Field Id:	SP-4 @	3'	SP-4 @4	4'	SP-9 @5	5'	SP-9 @6	5'			
Analysis Requested	Depth:	3- ft		4- ft		5- ft		6- ft				
	Matrix:	SOIL	SOIL		SOIL			SOIL				
	Sampled:	Jun-18-18 (Jun-18-18 07:00		Jun-18-18 07:10		8:00	Jun-18-18 0	8:10			
Chloride by EPA 300	Extracted:	Jun-22-18	11:00	Jun-22-18 11:00		Jun-22-18 15:15		Jun-22-18 15:15				
	Analyzed:	Jun-22-18	Jun-22-18 13:02		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	4.95	137	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

Kelsey Brooks
Project Manager

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,

Kelsey Brooks

Krus Hoah

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	Date Collected	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

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:

Tech: SCM

Analyst:

SCM

Date Prep: 06.22.18 11.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	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

Soil

Sample Id: SP-4 @4'

Matrix:

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

Tech: Analyst: SCM SCM

Date Prep: 06.22.18 11.00 Basis:

% Moisture:

Wet Weight

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

Tech:

SCM

% Moisture:

Analyst: SCM

Date Prep:

06.22.18 15.15

Basis:

Wet Weight

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:

Tech: Analyst: SCMSCM

Basis:

Seq Number: 3054471

06.22.18 15.15 Date Prep:

Wet Weight

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

^{**} Surrogate recovered outside laboratory control limit.

Flag



Seq Number:

QC Summary 589613

TRC Solutions, Inc ABO SWD 2

Analytical Method: Chloride by EPA 300

3054467

MR

MB Sample Id: 7657167-1-BLK

LCS Sample Id: 7657167-1-BKS Prep Method:

Date Prep: 06.22.18

E300P

E300P

LCSD Sample Id: 7657167-1-BSD

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

Matrix: Solid

Analytical Method: Chloride by EPA 300

Seq Number:

3054471

Matrix: Solid

Prep Method: 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 %RPD RPD Limit Units LCSD LCSD Limits 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 589613-001

Matrix: Soil

MS Sample Id: 589613-001 S Prep Method: E300P 06.22.18 Date Prep:

MSD Sample Id: 589613-001 SD

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

Chloride

Parent Sample Id:

Analytical Method: Chloride by EPA 300

Parent

3054467 Seq Number: Parent Sample Id:

Matrix: Soil 589613-002 MS Sample Id:

Spike

589613-002 S

MSD

MSD

Limits

E300P Prep Method:

Date Prep: 06.22.18

MSD Sample Id: 589613-002 SD %RPD RPD Limit Units Analysis Flag

Parameter Result %Rec Date Result Amount Result %Rec Chloride 137 374 96 372 95 90-110 20 06.22.18 14:29 248 1 mg/kg

MS

Analytical Method: Chloride by EPA 300

3054471 Seq Number: Parent Sample Id:

589613-003

Matrix: Soil MS Sample Id:

MS

589613-003 S

Prep Method: Date Prep: E300P 06.22.18

MS = Matrix Spike

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

B = Spike Added D = MSD/LCSD % Rec = MSD/LCSD Result



QC Summary 589613

TRC Solutions, Inc ABO SWD 2

Analytical Method: Chloride by EPA 300

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

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 Lin	nit Units	Analysis Date	Flag
Chloride	487	250	698	84	709	89	90-110	2	20	mg/kg	06.22.18 17:33	X

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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Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Coo Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other	-		Relinquished by					MALO.	-	38-906	50-90	76-HO7	59-40.3	Company-City Project Name-Location A B S State: TX, AL, FL, NJ, PA, SC, TN, UT Othe E-mail Results to Cuote/Pricing: Quote/Pricing: QAPP Per-Contract Cl Special DLs (GW DW Sampler Name-Rec Sampler Name-Rec Sampler Name-Rec Sample ID	
oduct (P), Solic	ious (V), HCI), 8oz (8), 32d	Maria 167		(Initials and Sign)							6	1/2	6	6		
ឋ (S), Water (\	pH<2 (H), H28 pz (32), 40ml	£2									-18-18	18-18	6-18-18	6-1818	Sampling Date Previously LA, MS, NC, P M and CLEAN Land-Fi AGCEE NAVY PP MDLs RLs: Sampling Date	Greenbriar Driv
N), Liquid (L)	SO4 pH<2 (S) VOA (40), 1L	618-18 3,35	6-18-18/	15	-						8:10 6	8:00	7:10 5	7:003	□ 5332, Blackberry Drive, San Antonio, TX 78238 Phole	e, Stafford, TX 7
	HNO3 pH<2 (1), 500ml (5)	6)	14	-							Q.	۸ در	413	X	Matrix Composite NPDE Composite NPDE Composite NPDE Composite	4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
ဂ	(N), Asbc Acid), Tedlar Bag (TEXA M	The same	Relinquished to (Initials and											Container Size	4200
ommitted to	B), Various (A CAROL	itials and Sign)				•			F-(11	+(H	Preservatives VOA: Full-List BTEX-MTBE EtOH Oxyg MOHs VOAs	
Committed to Excellence in Service and Quality	ZnAc&NaOH (V), Other	(p-1c	6-18-18	n) Date											VOA: Full-List BTEX-MTBE EtOH Oxyg OHs 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 OC Pesticides PCBs Herbicides OP Pesticides Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2 Metals: BCRA-8 BCRA-8 BCRA-4 Ph 13PP 23TAL Appdy 1 Appdy 2	9701 Harry Hines Blvd.; Dallas, TX 75220
e in Servic		1-18 101=	18 10:28	te & Time	-											3lvd., Dallas, TX
lend Onal	<4C) (C), None (NA), See Label (L), Cont. Type: Glass Amb (Otherwise ac	Total Contair							×	X	メ	<u>×</u>	EDB / DBCP	
	IA),See Labe /pe: Glass A	mples will be t sted. Rush Cha	reed on writing	Total Containers per COC:											432-563-1800 Sid 7d 10d 21d till and 10+ Working	214-902-0300
	ee Label (L), Other (0) Glass Amb (A), Glass	neld 30 days af arges and Colle	j. Reports are l				-							·	Serial #: 3 and and TAT ing days for level	
	o) s Clear (C), P	until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed	Otherwise agreed on writing. Reports are the Intellectual Property of XENCO	Cooler Temp: 0.	•										SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP 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)	
SUCK MINIM	Plastic (P), Various (V)	s e-mailed unk มาe-approved if	Property of XE	င္ပ					-		-				Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed Page Of	
3	ous (V)	needed.	ö	<u>@</u>	1										Addn: Date Rcv. by: From:	

Released to Imaging: 4/19/2023 3:35:16 PM





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 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 relinque	uished/ received?	Yes				
#10 Chain of Custody agrees with samp	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)?		N/A				
#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:	Brianna Teel Was a Mary 4	Date: <u>06/19/2018</u>				
5.155.115.15.15 .154.27 1	Kelsey Brooks	Date: 06/20/2018				

Received by OCD: 3/20/2023 9:14:06 AM XENCO LABORATORIES

Certificate of Analysis Summary 590084

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	2	SSW #3	3
Anaiysis Kequesica	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 (ın-20-18 00:00 J		Jun-20-18 00:00		Jun-20-18 00:00		0:00	Jun-20-18 00:00		Jun-20-18 0	0:00
Chloride by EPA 300	Extracted:	Jun-26-18 (n-26-18 08:30 Ju		8:30	Jun-26-18 08:30		Jun-26-18 08:30		Jun-26-18 08:30		Jun-26-18 0	8:30
	Analyzed:	Jun-26-18	n-26-18 15:08 Ju		5:20	Jun-26-18 15:33		Jun-26-18 15:45		Jun-26-18 15:57		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	19:27	Jun-26-18 20:07		Jun-26-18 22:00		Jun-26-18 22:40		Jun-26-18 23:17		Jun-26-18 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 (Jun-26-18 04:02		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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Kelsey Brooks

Received by OCD: 3/20/2023 9:14:06 AM XENCO LABORATORIES

Certificate of Analysis Summary 590084

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	007	590084-0	108	590084-0	na	590084-0	10	590084-0	11	590084-0	12
								NSW #2					
Analysis Requested	Field Id:	WSW #	:1	WSW #	WSW #2		NSW #1		2	NSW #3		ESW #1	
11. augustu 11. questeu	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 (Jun-20-18 00:00		Jun-20-18 00:00		Jun-20-18 00:00		0:00	Jun-20-18 0	0:00	Jun-20-18 0	0:00
Chloride by EPA 300	Extracted:	Jun-26-18 (un-26-18 08:30 J		08:30	Jun-26-18 08:30		Jun-26-18 08:30		Jun-26-18 0	8:30	Jun-26-18 0	8:30
	Analyzed:	Jun-26-18	ın-26-18 16:22 Ju		6:35	Jun-26-18 1	7:00	Jun-26-18 17:49		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
hloride		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 (00:31	Jun-27-18 01:07		Jun-27-18 01:44		Jun-27-18 02:23		Jun-27-18 03:01		Jun-27-18 03:39	
	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 (Jun-26-18 05:52		1:20	Jun-26-18 0	6:19	Jun-26-18 0	6:47	Jun-26-18 07:14		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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Kelsey Brooks Project Manager

Certificate of Analysis Summary 590084

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 Requested	Field Id:	ESW #2			
Anatysis Requestea	Depth:	1.5- ft			
	Matrix:	SOIL			
	Sampled:	Jun-20-18 00:00			
Chloride by EPA 300	Extracted:	Jun-26-18 08:30			
	Analyzed:	Jun-26-18 18:26			
	Units/RL:	mg/kg RL			
Chloride		545 125			
DRO-ORO By SW8015B	Extracted:	Jun-26-18 13:30			
	Analyzed:	Jun-27-18 04:15			
	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 13:00			
	Analyzed:	Jun-26-18 09:31			
	Units/RL:	mg/kg RL			
TPH-GRO		<3.65 3.65			

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Kelsey Brooks Project Manager

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,

Kelsey Brooks

Krus Hoah

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	Date Collected	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

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

Soil

Sample Id: CE NSW

Matrix:

Result

629

Date Received:06.22.18 17.25

Units

mg/kg

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 % Moisture:

Tech:
Analyst:

RNL RNL

Date Prep: 06.26.18 08.30

125

RL

Basis:

Wet Weight

Flag

Dil

5

Seq Number: 3054680

Parameter Cas Number
Chloride 16887-00-6

Analysis Date

06.26.18 15.08

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

PGM 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

Analyst:

MIT

111

Date Prep: 06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	\mathbf{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	4	460-00-4	106	%	76-123	06.26.18 04.02		
a,a,a-Trifluorotoluene	9	98-08-8	89	%	69-120	06.26.18 04.02		



TRC Solutions, Inc, Midland, TX

Abo SWD

Soil

Sample Id: **CE ESW** Matrix:

Result

229

Date Received:06.22.18 17.25

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:

Tech:

RNL RNL

Date Prep:

Basis:

Wet Weight

Analyst: Seq Number: 3054680

06.26.18 08.30

Flag

Parameter Chloride

Cas Number 16887-00-6

Cas Number

C10C28DRO

PHCG2835

RL25.0 Units mg/kg

Analysis Date 06.26.18 15.20 Dil 1

Dil

1

1

Dil

1

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

Tech: Analyst: **PGM PGM**

Date Prep:

06.26.18 13.30

Basis:

% Moisture:

Wet Weight

U

U

Seq Number: 3054675

Parameter Diesel Range Organics (DRO)

<25.2 25.2 <25.2 25.2

RL

06.26.18 20.07 mg/kg mg/kg 06.26.18 20.07

Units

Analysis Date Flag

Oil Range Hydrocarbons (ORO)

0/0 Cas Number Recovery

Units

Limits

Analysis Date Flag

Surrogate Tricosane n-Triacontane

638-67-5 638-68-6

Result

% 90 % 65-144 46-152

06.26.18 20.07 06.26.18 20.07

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

% Moisture:

Tech: Analyst:

Parameter

TPH-GRO

MIT

MIT

Date Prep:

<3.71

Result

06.25.18 13.00

Basis:

Wet Weight

Flag

U

Flag

Seq Number: 3054610

Surrogate

4-Bromofluorobenzene

a,a,a-Trifluorotoluene

Cas Number 460-00-4 98-08-8

Cas Number

8006-61-9

Recovery 107

RL

3.71

92

Units % %

Limits 76-123 69-120

Units

mg/kg

Analysis Date 06.26.18 04.30 06.26.18 04.30

Analysis Date

06.26.18 04.30



TRC Solutions, Inc, Midland, TX

Abo SWD

Soil

Sample Id: CE WSW

Matrix:

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 % Moisture:

Tech:

RNL

% IVIO1

Analyst: RNL Seq Number: 3054680

Date Prep:

547

Result

Cas Number

06.26.18 08.30

Basis:

Wet Weight

Parameter

Chloride 16887-00-6

 RL
 Units

 50.0
 mg/kg

mg/kg 06.26.18 15.33

Analysis Date

Flag Dil

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

PGM 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 Units Limits **Analysis Date** Flag Recovery Tricosane 638-67-5 65-144 06.26.18 22.00 ** 450 % 46-152 06.26.18 22.00 n-Triacontane 638-68-6 368 %

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech:

MIT

Analyst:

MIT

Date Prep:

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<8.00	8.00		mg/kg	06.26.18 10.53	U	2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	76-123	06.26.18 10.53		
a,a,a-Trifluorotoluene	!	98-08-8	73	%	69-120	06.26.18 10.53		



TRC Solutions, Inc, Midland, TX

Abo SWD

Soil

Sample Id: SSW #1

Matrix:

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

Prep Method: E300P % Moisture:

Tech:
Analyst:

RNL RNL

Date Prep: 06.26.18 08.30

Basis:

Wet Weight

Seq Number: 3054680

1

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

% Moisture:

Tech: Analyst: PGM 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	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

% Moisture:

Tech:

MIT

Analyst: MIT Seq Number: 3054610 Date Prep: 06.25.18 13.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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

Soil

Sample Id: SSW #2

Matrix:

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 % Moisture:

Tech:

RNL RNL

Date Prep: 06.26.18 08.30

Basis:

Wet Weight

Analyst: RNL Seq Number: 3054680

Bed Number. 3034000

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

% Moisture:

Tech: Analyst: PGM 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	<25.0	25.0		mg/kg	06.26.18 23.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0		mg/kg	06.26.18 23.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	103	%	65-144	06.26.18 23.17		
n-Triacontane		638-68-6	104	%	46-152	06.26.18 23.17		

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech:

MIT

Seq Number: 3054610

Analyst:

MIT

Date Prep: 06

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil TPH-GRO 8006-61-9 < 3.90 3.90 06.26.18 02.11 U mg/kg 1 Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery 460-00-4 4-Bromofluorobenzene 76-123 06.26.18 02.11 % a,a,a-Trifluorotoluene 98-08-8 65 % 69-120 06.26.18 02.11



TRC Solutions, Inc, Midland, TX

Abo SWD

Soil

Sample Id: SSW #3

Matrix:

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

% Moisture:

Tech: Analyst: PGM 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	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 Seq Number: 3054610 Date Prep: 06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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	4	460-00-4	92	%	76-123	06.26.18 05.25		
a,a,a-Trifluorotoluene	Ģ	98-08-8	81	%	69-120	06.26.18 05.25		



TRC Solutions, Inc, Midland, TX

Abo SWD

Soil

Sample Id: WSW #1

Matrix:

Date Received:06.22.18 17.25

Lab Sample Id: 590084-007

Date Collected: 06.20.18 00.00

Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: RNL

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	93.4	25.0	mg/kg	06.26.18 16.22		1

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech: Analyst: **PGM**

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	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

Tech:

MIT

Analyst:

MIT

Date Prep:

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

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

Sample Id: **WSW #2**

Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-008

Date Collected: 06.20.18 00.00

Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: RNL RNL

Date Prep:

06.26.18 08.30

Basis:

Wet Weight

Seq Number: 3054680

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 25.0 157 mg/kg 06.26.18 16.35 1

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

PGM 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	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

MIT Analyst:

Seq Number: 3054610

Date Prep:

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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	160-00-4	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

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 % Moisture:

Tech: Analyst: RNL 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	491	125	mg/kg	06.26.18 17.12	D	5

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech: Analyst: **PGM 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	26.1	25.2		mg/kg	06.27.18 01.44		1
Oil Range Hydrocarbons (ORO)	PHCG2835	25.3	25.2		mg/kg	06.27.18 01.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	109	%	65-144	06.27.18 01.44		
n-Triacontane		638-68-6	116	%	46-152	06.27.18 01.44		

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: Analyst: MIT

MIT

Date Prep:

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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		460-00-4	103	%	76-123	06.26.18 06.19		
a,a,a-Trifluorotoluene		98-08-8	92	%	69-120	06.26.18 06.19		



TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: NSW #2

Matrix: Soil Date Received:06.22.18 17.25

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:

Tech: Analyst: RNL RNL

Date Prep: 06.26.18 08.30 Basis:

Wet Weight

Seq Number: 3054680

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

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech: Analyst: **PGM 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	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		

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech:

MIT

Analyst:

MIT

Date Prep:

06.25.18 13.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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

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 % Moisture:

Tech: Analyst: RNL RNL

Date Prep:

06.26.18 08.30

06.26.18 13.30

Basis:

Wet Weight

Seq Number: 3054680

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

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

% Moisture:

Tech: Analyst: PGM **PGM**

Date Prep:

Basis:

Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.2	25.2		mg/kg	06.27.18 03.01	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2		mg/kg	06.27.18 03.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	98	%	65-144	06.27.18 03.01		
n-Triacontane		638-68-6	93	%	46-152	06.27.18 03.01		

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: Analyst: MIT

MIT

Date Prep: 06.25.18 13.00 % Moisture: Basis:

Wet Weight

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



TRC Solutions, Inc, Midland, TX

Abo SWD

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

125

Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

RNL

% Moisture:

RNL Analyst:

Date Prep:

Cas Number

Cas Number

06.26.18 08.30

Basis:

Wet Weight

Seq Number: 3054680 **Parameter**

16887-00-6 Chloride

Result RL447

Date Prep:

<25.0

Result

638-67-5

638-68-6

Units mg/kg

Units

mg/kg

65-144

46-152

Analysis Date Flag 06.26.18 18.14

Prep Method: SW8015P

Dil 5

Dil

1

1

Analytical Method: DRO-ORO By SW8015B

PGM

PGM Analyst:

06.26.18 13.30

% Moisture:

Basis:

Wet Weight

Flag

U

Seq Number: 3054675

Tech:

Parameter

Tricosane

n-Triacontane

Diesel Range Organics (DRO) C10C28DRO Oil Range Hydrocarbons (ORO)

PHCG2835 Surrogate Cas Number

<25.0 25.0 0/0 Recovery

RL

25.0

Units % 100 %

mg/kg 06.27.18 03.39 Limits **Analysis Date**

U Flag

06.27.18 03.39 06.27.18 03.39

Prep Method: SW5030B

Analysis Date

06.27.18 03.39

Analytical Method: TPH GRO by EPA 8015 Mod.

MIT Tech:

MIT Analyst: Seq Number: 3054610

Date Prep:

06.25.18 13.00

% Moisture:

Basis:

Wet Weight

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



TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: ESW #2

Matrix: Soil Date Received:06.22.18 17.25

Lab Sample Id: 590084-013

Date Collected: 06.20.18 00.00

Sample Depth: 1.5 ft

Analysis Date

06.26.18 18.26

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Chloride

Tech:

RNL

Date Prep:

545

Result

Cas Number

16887-00-6

Basis:

Units

mg/kg

Wet Weight

Flag

Dil

5

RNL Analyst:

Seq Number: 3054680

06.26.18 08.30

125

RL

Parameter

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

PGM

% Moisture:

PGM Analyst:

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: Analyst: MIT MIT

06.25.18 13.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	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

^{**} Surrogate recovered outside laboratory control limit.

E300P

Prep Method:



QC Summary 590084

TRC Solutions, Inc

Abo SWD

Analytical Method: Chloride by EPA 300

MR

Seq Number: 3054680 Matrix: Solid Date Prep: 06.26.18

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

LCS Spike LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 06.26.18 13:53 Chloride <25.0 250 254 102 257 103 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3054680 Matrix: Soil Date Prep: 06.26.18

Parent Sample Id: 589735-001 MS Sample Id: 589735-001 S MSD Sample Id: 589735-001 SD

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

Chloride <25.0 250 281 112 279 112 80-120 20 mg/kg 06.26.18 14:31

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3054680 Matrix: Soil Date Prep: 06.26.18

MS Sample Id: 590084-009 S MSD Sample Id: 590084-009 SD Parent Sample Id: 590084-009

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 X mg/kg

Analytical Method: DRO-ORO By SW8015B

SW8015P Prep Method: Seq Number: 3054675 Matrix: Solid Date Prep: 06.26.18

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

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

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

79

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

n-Triacontane

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

79

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

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result

85

= MSD/LCSD Result

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

46-152



Seq Number:

Surrogate

QC Summary 590084

TRC Solutions, Inc

Abo SWD

Analytical Method: DRO-ORO By SW8015B

SW8015P Prep Method: 3054675 Matrix: Soil Date Prep: 06.26.18

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

Parent Spike MS MS %RPD RPD Limit Units **MSD MSD** Limits 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

MSD MS MS **MSD** Limits Units Analysis

Flag %Rec Flag Date %Rec 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 7657268-1-BLK LCS Sample Id: 7657268-1-BKS LCSD Sample Id: 7657268-1-BSD MB Sample Id:

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

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

Limits MB MB LCS LCS LCSD LCSD Units Analysis **Surrogate** Flag %Rec Flag Flag Date %Rec %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: SW5030B Seq Number: 3054610 Matrix: Soil Date Prep: 06.25.18

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

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

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

86

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

Log Difference

a,a,a-Trifluorotoluene

[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

73

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

69-120

%

06.26.18 02:39

CHAIN OF CUSTODY

XENCO

Received by OCD: 3/20/2		e 86 of 265
h80065	W = Water S = Soil/Sed/Soild GW = Ground Water DW = Drinking Water DW = Product SW = Studge OW = Ocean/Sea Water ON = Oth WW = Wipe O = Oth WW = Water A = Air Sield Comments	Thermo. Corr. Factor A 38sume any responsibility for any at \$5 per sample. These terms will
12ona (480-355-0900)	PCI TCLP Benzene TPH 8015 M Ext (VM) The EXT (VM) TO TO THE	Solution on the liable only for the cost of samples and shall not samples and shall not analyzed will be invoice.
F CUSTODY	Forms Forms Custody Seal # Preserved Water as 1 Preserved Withere as 1 Preserved Water as	On los Cooler Termo. Corr. Factor Thermology negotiated under a fully executed client contract. Thermology of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will
Page 1 O San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251) WWW.xenco.com Project NameNumber:	Abo SWD Phone No:	oor not usen company to Xenco. Its affillates and subconsider. A minimum charge of \$75 will be applied to each project to the construction of the
Standard since 1990 as (281-240-4200) (214-902-0300) Signaturation Porting Information ital Corporation	10 Desite Dr. Studiess:	fully executed client contract.
Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (281-240-4200) Dallas Texas (214-902-0300) Company Name / Branch: TRC Environmental Corporation Company Address:	To Desta D. Suite 150E Midland, TX 79705 Final I. Igowry@trcsolutions.com Igowry@trcsolution	a Japun papangan tanggan pungak a

CHAIN OF CUSTODY

Page 10 21 San Antonio, Texas (210-509-3334)

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

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

Client / Reporting Information		THE REAL PROPERTY OF THE PARTY		THE SECTION OF THE PARTY OF THE			The state of the s	September 19 and	
	1000	d Information			Analytical Information	nformation		The state of the s	Matrix Codes
Company Name Branch: TRC Environmental Corporation Company Address:	Project Name/Number: Abo SWD Project Location	T I I I I I I I I I I I I I I I I I I I							W = Water
Middland, TX 79705 Email: Phone No: Phone No: Committee of the Committee	Lea County Invoice To:								S = Soll/Sed/Solld GW =Ground Water DW = Drinking Water P = Product
432-466-4450 Project Contact: Joel Lowry	Vanguard CO Chuck Johnston	nston				stats	(MN		SW = Surface water SL = Sludge OW =Ocean/Sea Water
vers's Name:	Collectors	order N	of Orderstrand bellen		əuəz	M 8 AF	M Ext (Wi = Wipe O = OII WW= Waste Water
No. Field ID / Point of Collection		p nZ/HC etsie	HC +OS	12 M E					A = Air
1 NSW #3	6/20/2018 Time	HC Nac	DBN	СР	ЭЫ	ЭΤ		i.	Field Comments
2 ESW #1	+-	0 0							/
3 ESW #2	1.5' 6/20/2018	60		+	+	1			8
4				×					m
Turnaround Time (Business days)		Dotto Dotto							
Same Day TAT 5 Day TAT		on a more representation and the second	Ìг			Notes:			
Next Day EMERGENCY 7 Day TAT		ora rac	Level IV (Full Data Pkg /raw data)	v data)	ilown	llowry@trcsolutions.com	ons.com		
	Level III Std	Std QC+ Forms	TRRP Level IV		zconc	zconder@trcsolutions.com	rtions.com		
	Level 3 (CL	(CLP Forms)	UST / RG -411		pcood	er@trcsoli	bcooper@trcsolutions.com		
TAT Starts Day received by Lab, if received by 5:00 pm	00 pm	hecklist							
SAMPLE CUSTOR	T BE DOCUMENTED	ME SAMPLES CHANGE POSSE	SAMPLES CHANGE POSSESSION INCLINING COURSED DEL MICE.	200	FED-E	FED-EX / UPS: Tracking #	acking #		
Rejin quished by:	5.23		Relinquished By:		Date Time:	Recei	Received By:		
Relinquished by:	Date Time: Received By:		Relinquished By:	Date Time:	Time:	2 Recei	2 Received By:		
Section State State of this document and relinquishment of samples conserved of the comment and relinquishment of samples conserved of the comment and relinquishment of samples conserved of the comment and relinquishment of samples conserved of the conserved of	Pare Time: Received by:	2018 11 Mars	Custody Seal #	Preserved	where applica	ble 4	Onice	Cooler Temp. 1	Thermo. Corr. Factor
or expenses incurred by the Client if such loses are due to compile	ites a valid purchase orger from client combany to	Xenco, ite affiliațee and subcont			_		7	S	7 /



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

Analyst:

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 conta	iner/ 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	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	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	pace?	N/A	

Checklist completed by:	Brenda Ward	Date: <u>06/22/2018</u>
Checklist reviewed by:	Kelsey Brooks	Date: 06/22/2018

PH Device/Lot#: IR-3



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	7b	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 1	0:00	Jul-06-18 10	0:00					
	Analyzed:	Jul-06-18 1	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

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,

Kelsey Brooks

Krus Hoah

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 591008



TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id	Matrix	Date Collected	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

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

Tech:

ARM

% Moisture:

Basis:

Wet Weight

Analyst: ARM

Date Prep:

07.06.18 10.00

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**

Lab Sample Id: 591008-003

Matrix: Soil Date Received:06.30.18 09.00

Date Collected: 06.28.18 07.55 Sample Depth: 1

Prep Method: E300P

% Moisture:

Basis:

Wet Weight

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst:

Seq Number: 3055723

SCM

Date Prep:

07.05.18 15.00

Dil

Parameter Cas Number Result RLUnits **Analysis Date** Flag 16887-00-6 07.05.18 21.32 Chloride 342 4.93 mg/kg 1



Flagging Criteria



Page 97 of 265

- 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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 591008

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method: Chloride by EPA 300

Seq Number: 3055723 Matrix: Solid

MR

Result

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

Spike

Amount

LCS

Result

E300P Prep Method:

Date Prep: 07.05.18 LCSD Sample Id: 7657872-1-BSD

Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag Date %Rec Result

07.05.18 19:23 Chloride < 5.00 250 232 93 235 94 90-110 20 mg/kg

LCS

%Rec

Analytical Method: Chloride by EPA 300

Seq Number: 3055723

Parameter

Parent Sample Id:

590920-004

Matrix: Soil

MS Sample Id: 590920-004 S

Prep Method:

E300P

Date Prep: 07.05.18

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

Chloride <4.98 249 246 99 242 97 90-110 2 20 mg/kg 07.05.18 19:39

Analytical Method: Chloride by EPA 300

Seq Number:

3055723

Matrix: Soil

Prep Method: Date Prep:

E300P

07.05.18

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

MS Parent Spike MS **MSD MSD Parameter**

%RPD RPD Limit Units

Analysis Flag

Result %Rec Date Result Amount Result %Rec

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

Analytical Method: TPH by SW8015 Mod

Seq Number:

MB Sample Id:

3055781

7657983-1-BLK

Matrix: Solid

LCS Sample Id:

7657983-1-BKS

Prep Method:

Limits

TX1005P

07.06.18 Date Prep:

LCSD Sample Id: 7657983-1-BSD

%RPD RPD Limit Units MB Spike LCS LCS LCSD Limits Analysis **LCSD** Flag **Parameter** Result %Rec Date Result Amount %Rec Result 07.06.18 11:18 Gasoline Range Hydrocarbons (GRO) 940 94 943 70-135 0 20 <15.0 1000 94 mg/kg 07.06.18 11:18 963 96 70-135 0 20 Diesel Range Organics (DRO) 1000 96 961 <15.0 mg/kg

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 102 115 115 70-135 % 07.06.18 11:18 103 07.06.18 11:18 o-Terphenyl 108 107 70-135 %

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 591008

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055781 Matrix: Soil

MS Sample Id: 590704-001 S

Prep Method: TX1005P

Date Prep: 07.06.18

MSD Sample Id: 590704-001 SD

Parent Sample Id: 590704-00)1		MS Sar	nple Id:	590704-00	01 S		MS	SD Sample I	d: 590	704-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range 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				AS Rec	MS Flag	MSI %Re		_	Limits	Units	Analysis Date	
1-Chlorooctane			1	.09		114		7	0-135	%	07.06.18 12:18	
o-Terphenyl			9	96		99		7	0-135	%	07.06.18 12:18	

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

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

P 1	Minair,	Midiand, Texas (432-704-5251)	04-5251)											
			ex://ww/	www.xenco.com			Xenco	Xenco Quote #			Xenco Job	•	59 Q	8
Client / Benorting Information								•	Analytical I	Information	3			Matrix Codes
Company Name / Branch:	Project Name/Number:	e/Number:	rioject illiorination				<u></u>							
TRC Environmental Corporation	Vanguard .	Vanguard Abo SWD #2												W = Water
Company Address: 10 Desta Dr. Suite 150E	Project Loca	ition:											-	GW =Ground Water
Midland, TX 79705	Lea County, NM	N.												DW = Drinking Water
Email: Phone No: illowry@trcsolutions.com 432-466-4450	Invoice To: Vanguard, C	Invoice To: Vanguard, CO Chuck Johnston	Юп							·)			SW = Surface water
Project Contact:										letals	(NM			OW =Ocean/Sea Water
Samplers's Name:	invoice:							0						0=0ii
							5	300	ene		1 E			WW= Waste Water
	Collection			Numi	umber of prese	served bottles	100	E 3	enze					A = Air
No. Field ID / Point of Collection	<u> </u>					04	ł TX	oride RM	.РВ		oride 1 801			
	th Date	Time	Matrix bottles	HCI NaO Acet	HNC H2S	NaH: MEC	NON TP	Ch NO	RC					Field Comments
1 WSW #2b	6/28/2018	23.5	s -						\dashv		-			· iora commonia
2 CE WSWb	6/28/2018	7:50	s					+	-	1	×	1		
CENSW	6/28/2018	7:55	s 1							1	< ,	-		
4								\dashv	+	1				
o						1		-	-	1	-			
6	-								_	1	-			
7											+			
										1	+	-		
9									+		\perp	-		
10									-	1	+	-		
Turnaround Time (Business days)			Data Deli	Data Deliverable Information	ation				-	Notes:		F		
Same Day TAT 5 Day TAT		Level	Level II Std QC		ш	Level IV (Full Data	Pkg /raw data)	a)	iloy	/ry@trcs	jlowry@trcsolutions.com	m		
Next Day EMERGENCY 7 Day TAT		Level	Level III Std QC+ Forms	orms	TRAN	TRRP Level IV			ZCO	nder@tro	zconder@trcsolutions.com	com		
4:0 2 Day EMERGENCY X Contract TAT		Level	Level 3 (CLP Forms)	9)	Ust,	UST / RG -411			<u>bc</u>	oper@tro	bcooper@trcsolutions.com	com		
3 Day EMERGENCY		TRRP	TRRP Checklist											
TAT Starts Day received by Lab, if received by 5:00 pm										EX/UP	FED-EX / UPS: Tracking # (16	001020	101
Relinquished by Sample:	BE DOCUMENTE	D BELOW EACH	TIME SAMPLE	S CHANGE PO	OSSESSION, I	NCLUDING CO	URIER DELIVERY	RY	-			1	スクサンド	とというと
1 Of the samples.	we:	Received By:	(1) (3)	#	刘酮	Relinquished By:		Date	Time: 19-19	<i>X</i>	Received By:		2	
ω	me:	Received By	C	O	Relinq	Relinquished By:	JOG	O ate Time:	.)	Q	刀副	() {	70,0	900
	me:	Received By:	77		Custo	Custody Seal #		Preserved where applicable	where app	licable	•	Onles	Cooler Temp.	o. Thermo. Corr. Factor
losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples and shall not assume any responsibility for any be enforced unless previously negotiated under a fully executed client contract.	control of Xenco.	om client compar A minimum chars	ny to Xenco, its a	affiliates and su applied to each	bcontractors. In project. Xence	assigns standa o's liability will b	rd terms and co	nditions of sost of samp	ervice. Xendes. Any san	o will be lia	ble only for ed by Xeno	the cost of o but not a	samples and shall a alyzed will be invok	not assume any responsibility for ced at \$5 per sample. These terr



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 #: 591008

Temperature Measuring device used: R8

#1 *Temperature of cooler(s)?		.1
#2 *Shipping container in good condition	1?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping co	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 reling	uished/ received?	Yes
#10 Chain of Custody agrees with samp	le 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	red test(s)?	Yes
#16 All samples received within hold tim	e?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero hea	dspace?	N/A
* Must be completed for after-hours de Analyst:	elivery of samples prior to placing in	the refrigerator
Checklist completed by: Checklist reviewed by:	Manual March	Date: 07/02/2018
	Kelsey Brooks	Date: 07/03/2018

Sample Receipt Checklist



Certificate of Analysis Summary 591014

TRC Solutions, Inc, Midland, TX Project Name: Vanguard Abo SWD #2 Page 102 of 265

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	03	591014-0	04		
Analysis Requested	Field Id:	NW Floor	@2'	SW Floor	@2'	CE Floor	@2'	SE Floor (@3'		
Anaiysis Requesieu	Depth:	2- ft		2- ft		2- ft		3- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jun-28-18 (9:10	Jun-28-18 0	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 1	6:30	Jul-05-18 10	6:30		
	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 0	8:00	Jul-07-18 0	8:00		
	Analyzed:	Jul-07-18 1	5:25	Jul-08-18 0	8:30	Jul-07-18 1	6:04	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 beest 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,

Kelsey Brooks

Krus Hoah

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 591014



TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id	Matrix	Date Collected	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		

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'

Soil Matrix:

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

Tech:

SCM

% Moisture:

SCM Analyst:

Date Prep:

Basis:

Wet Weight

Seq Number: 3055724

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 154 07.05.18 22.32 4.97 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

Seq Number: 3055921

Basis:

07.07.18 08.00 Date Prep:

07.05.18 16.30

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

SCM

Prep Method: E300P

Tech: SCM

07.05.18 16.30

% Moisture:

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

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

Analyst:

ARM 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		



Certificate of Analytical Results 591014



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 % Moisture:

Tech:

SCM

Date Prep: 07.05.18 16.30

Basis:

Wet Weight

Analyst: SCM

Seq Number: 3055724

 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:

70-135

Analyst: ARM

o-Terphenyl

Seq Number: 3055921

Date Prep: 07.07.18 08.00

100

Basis:

07.07.18 16.04

Wet Weight

Parameter	Cas Number	r 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		

84-15-1



Certificate of Analytical Results 591014



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

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	412	4.96	mg/kg	07.05.18 22.59		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 07.07.18 08.00

Basis:

Wet Weight

Seq Number: 3055921

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	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



Page 111 of 265

- 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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 591014

TRC Solutions, Inc

Vanguard Abo SWD #2

Analytical Method: Chloride by EPA 300

Seq Number: 3055724 Matrix: Solid

MR

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

Prep Method:

E300P

Date Prep: 07.05.18

LCSD Sample Id: 7657873-1-BSD

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

3055724

Matrix: Soil

E300P Prep Method: 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

Seq Number:

Parent Sample Id:

Seq Number:

3055724

591015-007

Prep Method: 07.05.18

E300P

Matrix: Soil Date Prep:

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

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

Analytical Method: TPH by SW8015 Mod

Seq Number:

3055921

Matrix: Solid

Prep Method:

TX1005P

07.07.18

7658081-1-BLK LCS Sample Id: MB Sample Id:

7658081-1-BKS

Date Prep: LCSD Sample Id: 7658081-1-BSD

Flag

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

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 98 118 117 70-135 % 07.07.18 10:10 108 07.07.18 10:10 o-Terphenyl 105 107 70-135 %

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

07.07.18 11:09

07.07.18 11:09



Seq Number:

1-Chlorooctane

o-Terphenyl

Parent Sample Id:

QC Summary 591014

TRC Solutions, Inc

Vanguard Abo SWD #2

115

107

Analytical Method: TPH by SW8015 Mod

591015-001

3055921 Matrix: Soil

Prep Method: TX1005P

Date Prep: 07.07.18

70-135

70-135

MSD Sample Id: 591015-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP	D RPD Limi	t 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				AS Rec	MS Flag	MSD %Red	MSI Flag		Limits	Units	Analysis Date	

119

105

MS Sample Id: 591015-001 S

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample A = Parent Result

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

Stafford, Texas (281-240-4200)

LABORATORIES Setting the Standard since 1990

CHAIN OF CUSTODY

Page 1 Of

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

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	Client / Reporting Information Program Stance Program Stance Program Stance Program Stance Program Address: Program	Project Name/N Vanguard Abo Project Location Vanguard County, NM Invoice To: Vanguard, Co C Sample 2: 6/28/2018 4 2: 6/28/2018 4 2: 6/28/2018 4 3: 6/28/2018	Project Name/Number: Project Name/Number: Project Name/Number: Project Name/Number: Project Name/Number: Vanguard Abo SWD #2 Project Location: Lea County, NM Invoice To: Vanguard, CO Chuck Johnsto 2: 6/28/2018 4:15 2: 6/28/2018 4:70 2: 6/28/2018 4:70 2: 6/28/2018 4:70 Level II Level II IIII Level II III Level	Project Name/Number: Vanguard Abo SWD #2 Project Location: Lea County, NM Invoice To: Vanguard, CO Chuck Johnston Collection	Project Information Project I	Project NameANumber: Vanguard Abo SWD #2 Project Location: Lee County, NM Invoice: Vanguard, CO Chuck Johnston Van	Project Name/Number:	Project NameNumber: Variguard Abo SWO #2 Project Incention: Variguard CO Chuck Johnston Froject NameNumber:	Project Information Project Information	Project Information	Project NameNumber: Project Information Project NameNumber: Project NameNumber:	Project Information	Project Information	Project Information Project Information	### Project Information Project Information Project Informati	Annotation Ann



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 #: 591014

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 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 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
* 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:	Marie Lowe	Date: <u>07/02/2018</u>
Checklist reviewed by:	Kelsey Brooks	Date: 07/03/2018



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:	592670-0	01	
Analysis Paguested	Field Id:	SW Floo	or	
Analysis Requested	Depth:	3- ft		
	Matrix:	SOIL		
	Sampled:	Jul-17-18 1	0:30	
TPH by SW8015 Mod	Extracted:	Jul-19-18 1	2:00	
	Analyzed:	Jul-19-18 1	6:49	
	Units/RL:	mg/kg	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-Tampa: Florida (E84098) 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,

Kelsey Brooks

Krus Hoah

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

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



TRC Solutions, Inc, Midland, TX

ABO SWD #2

07.19.18 12.00

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

Date Prep:

% Moisture:

Basis:

Wet Weight

Tech: ARM

ARM Analyst:

Seq Number: 3057120

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



Page 122 of 265

- 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

^{**} Surrogate recovered outside laboratory control limit.

07.19.18 13:08

Flag



QC Summary 592670

TRC Solutions, Inc ABO SWD #2

Analytical Method: TPH by SW8015 Mod

114

Seq Number: 3057120 MB Sample Id:

7658750-1-BLK

101

Matrix: Solid LCS Sample Id: 7658750-1-BKS

TX1005P Prep Method:

Date Prep: 07.19.18

LCSD Sample Id: 7658750-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	958	96	969	97	70-135	1	20	mg/kg	07.19.18 13:08	
Diesel Range Organics (DRO)	<15.0	1000	986	99	1000	100	70-135	1	20	mg/kg	07.19.18 13:08	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane	95		1	22		123			70-135	%	07.19.18 13:08	

113

MS Sample Id:

Analytical Method: TPH by SW8015 Mod

Seq Number: 3057120

o-Terphenyl

Parent Sample Id:

592471-001

Prep Method: TX1005P

70-135

Date Prep: 07.19.18 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 70-135 2 20 96 mg/kg

Matrix: Soil

592471-001 S

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

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 E = MSD/LCSD Result MS = Matrix SpikeB = Spike AddedD = MSD/LCSD % Rec

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(8), 32oz (32), 40m P), Notice: Signature subcontractors as	nd Sign)							ţ.	7-17-18	HA43 Greenbriar Drive, St. 5332, Blackberry Drive, S. 5332, Blackberry Drive, S. GA, LA, MS, NC. Program and BCooper Program a	
T-17-18 2:54 2Y Quick (C) Coccision T-17-18 2:54 Otherwise agreed on writing. Reference on writing and escions under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.	Date & Time								10:37	an Antonio, TX 7747 an Antonio, TX an Antonio and Tx an Antonio an	~
2:54 2x 2:54 2x (6) 1003 p 1L (1) 5000 (a) 1 controlling 1 controlling	e									Thin m Composite Containers Container	301
(1), 500ml (5), Tedlar Bag (B), Various (V). Other Committed to Excellence in Service and Quality Committed to Excellence in Service and Quality standard terms and conditions of service unless previously negotiated under a fully executed client contract. (1) Other (NA), Samples will be held 30 days after final report hereby requested. Rush Charges and Collection Fees and hereby requested. Rush Charges and Collection Fees and (C), None (NA), See Label (L), Other (O) Cont. Type: Glass Amb (A), Glass Clear (C), (1), 500ml (5), Tedlar Bag (B), Various (V). Other Committed to Excellence in Service and Quality Land relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, the contract of the contract o	Relinqu									Container Signal Container Type Container Type Container Type Composite C	740 4300
Asbc Tedlar B	Relinquished to (Initials									# Containers Lili PM) Lili PM	
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Otherwise agree (CCC) (C), Cool, <4C) (C), None (NA); Warious (V), Other (Cool, <4C) (C), None (NA); Warious (V), Other (Committed to Excellence in Service and Quality amples constitutes a valid purchase order from client company to Xeronditions of service unless previously negotiated under a fully execute (Coordinate).	and Sign)									THE PIECE STORY NAME OF THE PROPERTY OF THE PIECE OF THE	
ZnAc& (V), Ott to Exc es a valic	(ng				<u> </u> -					VOA: Full-List BTEX-MTBE EtOH 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 OC Pesticides PCBs Herbicides OP Pesticides	l Harry Hi
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Otherwise agreed on writing. Reports are tree to the local partil paid. Samples will be held 30 days after fine hereby requested. Rush Charges and Collection (Cool, <4C) (C), None (NA), See Label (L), Other (O)—Cont. Type: Glass Amb (A), Glass Construice and Quality	ne -									VOA: Pull-List BTEX MIDE VOA: PD 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 OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit	9701 Harry Hines Blvd., Dallas, TX 75220
Thereby (C), N (C), N and and	otal C		\vdash	+	+			-	\forall	7PH 8015 M FXT 3	214
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Otherwise agreed on writing. Reports are the intellectual in type by the paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed (C), None (NA), See Label (L), Other (O) Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (Na) and Quality are a fully executed client contract.	of XE									Sample Clean-ups are pre-approved as needed Sample Clean-ups are pre-approved as needed Q	•
neec	NCO						\perp	\bot	\perp		
. 0 - 1 14				1 ,			1	- 1	- 1	Addn: Date Rcv. by: From:	



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO#:

Manifest #: ŃΑ

Manif. Date: 6/22/2018

Hauler: Driver

M MATA TRUCKING LLC SAUL

Truck#

38 Card# Job Ref#

Ticket #:

Generator:

Generator #:

Well Ser. #:

Well Name:

Well#:

Field #:

Field:

Bid #:

Date:

Rig:

NON-DRILLING

ABO SWD ROC

700-904873

Walk-in Bid

VANGUARD

6/22/2018

03849

002

LEA (NM) County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell CI pΗ Cond. %Solids PCI/GM 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 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 Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver	Agent	t Signature	
--------	-------	-------------	--

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

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, 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: 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	Trocking
#3920 Yard	Name: JUCIA Galaura
,	Signature 479
	Date: 6/2)//8
DISPOSAL SITE:	
R360 Halfway Facility I507 W Carlsbad Hwy	1 Along
PO Bax 388 Hobbs, NM 88241	Signature:
,	Date: 4/22/18
Direc	TBill: Variouard Operation 110

Care Of: Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

JUAN

39

AFE#:

PQ #:

Manifest#: NA

Manif. Date: 6/22/2018

Hauler:

M MATA TRUCKING LLC

Driver Truck #

Card# Job Réf# Ticket#:

700-904874 Walk-in Bid

Bid #: Date:

6/22/2018 VANGUARD

Generator: Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#:

002

Field:

Field #:

riela #: Ríg:

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 % 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 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 descripti	on above;

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

	B 1	
Approved By:	Date:	

t6UJ9A010DSQ

6/22/2011 .

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, 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		Signature: Off JA PAR Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M. MATA Trucking BOLLY DUMP Truck # 450		Name: Jalo Signature: F. V. Date: 6 - 21 - 18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: T. Marinan Date: 427 18	
	Direct Bill:	Vanguard Operating, LLC	



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO#:

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

Hauler:

M MATA TRUCKING LLC

Driver LALO Truck# 150

Card # Job Ref # Ticket #: Bid #:

700-904876 Walk-in Bid 6/22/2018

Date: 6/22/2018 Generator: VANGUARD

Generator#:

Well Ser. #: 03849

Well Name: ABO SWD ROC

002

Well#: Field:

Field #:

Rig: County

NON-DRILLING 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 0.00 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 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 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)

Oriver/ Agent Signature	R360 Re

Sustomer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010DSZ

TRANSPORTER'S MANIFEST		
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:	
Vanguerd 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 Johns ton Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA Date: 6-50-18	
NAME OF TRANSPORTERY (DRIVER) M Mata Tro # 39 20 1/06d Twee # 12	King Adrian G Name: Josephane Signature: A30	
DISCOSAL CUTT	bate: 6/2//8	
DISPOSAL SITE: R360 Halfway Facility 4507 W Certsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MALL S	

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



VANGUARD PERMIAN Customer:

Customer #: CRI6830

Ordered by: CHUCK JOHNSTON

12

AFE #: PO#:

Manifest #: NA Manif, Date: 6/22/2018

Hauler:

M MATA TRUCKING LLC ADRIAN

Driver Truck#

Card # Job Ref# Ticket #: Bid #:

Walk-in Bid 6/22/2018 Generator: VANGUARD

700-904911

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Date:

Field #:

NON-DRILLING

Rig: County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

H2S

Cell Lab Analysis: 50/51

0.00

0.00

Cond. 0.00

%Solids

TDS

PCI/GM

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:

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

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010DWE

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, 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: ChiphA Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M Mata Tro	Name: Juan Galaurz Signature: 130 Date: 6/21/18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: 1000 Carlos Date: 1000 Carlos Car	
Direct Bills		



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO #:

Manifest #:

Manif, Date: 6/22/2018

Hauler: Driver Truck# M MATA TRUCKING LLC JUAN

39

Card # Job Ref# Ticket #:

700-904913

Bid #: Date:

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)

*acility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell .ab Analysis: 50/51

CI 0.00 0.00

Cond. 0.00

%Solids ō

TDS PCI/GM MR/HR

H28

% Oil

Weight

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 D, as 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

Sustomer Approva

R360 Refresentative Signature

THIS IS NOT AN INVOICE!

Approved By

Date:

tGUJ9A010DWH

6/27/15



Customer: VANGUARD PERMIAN

Customer#; CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO#:

Manifest #: NA

Manif, Date: 6/22/2018

Hauler: Driver Truck #

Card # Job Ref# Ticket #: Bid #:

700-904916 Walk-in Bid

Date:

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

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

M MATA TRUCKING LLC

Generator Certification Statement of Waste Status

Maruelemer

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

THIS IS NOT AN INVOICE!

Approved By: Date:

IBUJ9A010DWN

6/22/2011

28 14

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, 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 Tohnstan Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChipAA Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M. MATA TRUCKING BOLLY DUMP TRUCK # 150 38		Name: Fall Saul Signature: ET Date: G-21-18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241		Signature: 1 Martino	
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	

TRANSPOR	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, T17S, 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: 20				
FACILITY CONTACT: Chuck Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		5ignature: <i>CALJLA</i> Date: 6-30-18		
NAME OF TRANSPORTER: (DRIVER) M. MATA Trucking BOLLY DUMP Truck # +50		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. Marinur Date: 422/18		
		Vanguard Operating, LLC Kyle Zimmerman		



VANGUARD PERMIAN Customer:

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest #:

NA Manif, Date: 6/22/2018

Hauler: Driver

M MATA TRUCKING LLC LALO

Truck# 150

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

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

VANGUARD

03849

Generator: Generator #1

Well Ser. #:

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 рH 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 Sigi	nature
--------------------	--------

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date: __

t6UJ9A010DWV



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Manifest #:

Manif. Date: 6/25/2018

M MATA TRUCKING LLC

Hauler: **MAUL** Driver Truck# 39

Card# Job Ref#

700-905527

Ticket #: Bid #: Date:

Walk-in Bid 6/25/2018 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

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

PCI/GM MR/HR

H2S % 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 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

-			mature
Tiriuar	/ Δπο	of Sic	* ** ** ** ** **
D117 G1	·		HICKLIS

Customer Approval

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010FCX

6/25/2011

TRANSPORTER'S MANIFEST

TRANSPORT	ER S MAN	ires i	
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: Chek Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature Date:	Chlph4 6-30-18
NAME OF TRANSPORTER: (DRIVER) MM AT #39201/060	a Truck	Name: Signature Date:	Tuch Galaurz 130 121/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:	In cut
	Direct Bill: Care Of:	Vanguard Kyle Zimn	Operating, LLC erman



VANGUARD PERMJAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Manifest #: NA

Manif. Date: 6/25/2018

Hauler: Driver

M MATA TRUCKING LLC **ADRIAN**

Truck#

12

Card # Job Ref# Ticket #: Bid #:

700-905528 Walk-in Bid 6/25/2018

Date: **VANGUARD** Generator:

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#: 002

Field:

Field #:

NON-DRILLING Rig:

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

PCI/GM H2S % Oil Weight %Solids TDS MR/HR CI Cell Cond. 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): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature
A./	AM
(Byron b	

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date	3.
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TRANSPORTER'S	MANIFEST
HIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
anguard Operating, LLC 001 Penbrook, Suite 201, Odessa, TX 79762	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Les Co, NM API: 30-025-03849
RANSPORTERS NAME AND ADDRESS:	
Mata Trucking,	
O BOX 1263,	
lobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VQLUME:	
FACILITY CONTACT: Chrek Johnston	Signature: OhlphA
Chiel Johnston	Sīgnature:
Kyle Zimmerman Vanguard Operating, LLC	Date: 6-30-18
4001 Penbrook, Suite 201, Odessa, TX 79762	Date: 0 10
NAME OF TRANSPORTER (DRIVER) M MATA 439 20 1/06d	Tis Alun 6
NAME OF TRANSPORTER (DRIVER) MMata	Trocking front
1/20 201/01	Name: SOPERALIZE
7734 ZV Y 4.0	(140_
Truck #12	Signature
I MACH IN THE	Date: 6/2//8
DISPOSAL SITE:	
	Signature: AVX V
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy	Signature:

Date:_

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

PO Box 388 Hobbs, NM 88241



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

150

AFE #: PO#:

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

Hauler:

M MATA TRUCKING LLC LALO

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 #: 002

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 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:

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):

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Date:

t6UJ9A010FE3



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

Campany Man Co.	react Information
Name Wull L	shristen

Control of No. Operators from Country Country				*//***********************************	Phone No.	1176.
Operators Name Andreas Construction Construction Construction Construction Construction Andreas Construction Cons	Security No.		GENERATO	R	No. 31	0396
Annual 6 to County Annual 6 to County Annual 6 to County Annual 7 to County Annual 7 to County Annual 7 to County Annual 8 to County Annual			р			•••
All frees County All frees County All frees All frees County All frees County All frees All frees All frees County All	Operators Name	W/ Wim/	in "		BRO CLUB	DW AM
Corp. SUMS. To United Autor Summer A Lo. Prome No. EXAMPLEAP WasterSamvice describitation and Amount (place volume needs to waster types in harmons or authory years) Of Disass Muster Michael Muster Micha	7		N N	ame & No.	DU SWP	NC UUZ
City, Story, 20 April 1990	Address	*, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	C	ounty	4	
City, Story, 20 April 1990			A	PI No.		
DEMONTER BY What Service Mendification and Amount (place volume note: to wisses type in barries or cubic yards)	City, State, Zip					######################################
District Marie District Marie District Marie District Marie District Cuttors Number Stand Marie Numb	Phone No.				A (100 to the first of the state of the sta	
Oil Based Cumings				•		·····
SUBJECT COPIES Market Board Wulds	EXEMPT	E&P Waste/Service Identifi	cation and Amount (place vol.	me next ta v	aste type in harrale or orbits as	alo)
Weshood Water (Specially Completed by Comple	On Dated Midds	NON-INJECTABLE WA	NTERS	***************************************	INIECTARIE WATERS	asj
Completion Full-file was a (Theorems) and completion (Confidence of Full-file) was as (Theorems) produced Former for folials part (Martin Martin) produced Former folials part (Martin) produced for produced former folials part (Martin) produced folials		Washout Water (Non	ı-Injectable)	Validation de monte de la constanti on de la constantion de la co		
Produced Formation facilist Trans Batters Table States Table 1		Completion Fluid/Flo	w bask (Non-Injectable)			table)
Task potentians Task potentians Color C					Produced Water (Injectable)	·
Trick Wissboal (semes waite)			/Waste (Non-Injectable)		Gathering Line Water/Waste (inje-	ctable)
MASTE CENTERATION PROCESS: DRILLING DOMPLETION PRODUCTION GATHERING UNES	E&P Contaminated Soil 20	1	ogi verta)	·	OTHER EXEMPT WASTES (type and g	eneration process of the waste)
NON-EXEMPT EAP Waster/Survivor learning in the fire content of the		Trock Pyssioac (exer).	ipc waste)			
All non-commot E&P waste must be analyzed and be below the threshold limits for underly TCLP), pointablety, Corporately and Researching. NON-EXEMPT E&P Waste/Service Identification and Amount TO Chempat Chinar Photos select from Mon-Exempt Waste (fist on book QUANTITY B - BARBES L - LIQUID - YARD E - EACH hereby certify that according to the Resource Conservation and Recovery Act (ACR4) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste and is (Chines, the according to the Resource Conservation and Recovery Act (ACR4) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste and is (Chines, the according to the Resource Conservation and Recovery Act (ACR4) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste and is (Chines, the according to the Agency State) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste than the US and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste than the US and the US and the US and the Agency State (Agency State) and the US	WASTE GENERATION PROCESS:	DRILLING	COMPLETION	m	PRODUCTION TO	CATUCOURCE
AND PROPOSED EXPONENT DE analysed and be below the threshold limits for rosicity (TCL), ignitiaality, correctivity, and featestyry. When select from Nan-Exempt Wasts but a book only and the selection of the selection of the selection of the Resource Contervation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 register of book and the selection of		No. c		<u> </u>		GATHERING LINES
Description of the properties and security that according to the Resource Conservation and Recovery Act (RCNA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste generated to the distribution of the properties classification of the properties classification of the properties classification of the properties classification of the description and Recovery Act (RCNA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste generated from all and ges exploration and production operations and are not inited distribution non-exament waste (R360 Accepts certifications on a per local basis only). RCAA NON-EXEMPT:	All non-exem	NON-E) ot E&P waste must be analysed	ADMP1 E&P Waste/Service Identific and be below the threshold limite	ration and Ame	P) lanitability Co-	h.te.
DEPOSITION OF TRANSPORTER Common Print and according to the Resource Conservation and Recovery Act (RCRA) and the LS Environmental Protection Agency's July 1988 regulatory determination, the above described wasted as (Check-the appropriate classifications) RCAR EXEMPT: Coll field wasted generated from oil and gise exploration and production operations and are not mixed with non-examet waste (R360 Accepts certifications on a period to the destroy of the destroy	Non-Exempt Other					
hearety certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste to the Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste to the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste to the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste to the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste only in the US Environmental Protection Agency's Livy 1988 regulatory determination, the above described waste to the US Environmental Protection Agency's Livy 1988 regulatory, 45 C 256,124-524, or Interface Agency waste that Agency to the Agency Agency Constitution of the Agency Agen	OLIANTETY				Hurrekempt woste List on back	
CREA EXEMPT: Oil field wastes gunarated from oil and gas exploration and production operations and are not mixed with non-exempt waste (836) Accepts certifications on a per load basis only).			•			
ACRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (836) Accepts certifications on a per load bads only) RCRA NON-EXEMPT: Git field waste which is non-hazardous that does not exceed the minimum standards for waste heavardous by characteristics attablished in RCRA regulation, 40 CCF, part 251, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Inches the appropriate licens as provides licens as provides licens as provides licens.) RCRA NON-EXEMPT: Git field waste which is non-hazardous waste as defined by 90 CCFP, part 251, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous in a standardous waste and field waste final 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) PRINCE ACHAS NAME DIVER'S NAME DIVER'	hereby certify that according to the Resource	Conservation and Recovery Ac	t (RCRA) and the US Environmenta	Protection As	ency's july 1988 regulatory determin	
RCRA NON-EXEMPT: Oli Ried waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CT 28-12-12-12 or risted hazardous waste as defined by 40 CFR, part 251, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached, floretch the appropriate litems as provided) MSDS information ACRA Hazardous Waste Analysis Other (Provide Description Below) Emergency non-hazardous, non-oilfelid waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form) General Announce Actars name TRANSPORTER Driver's Name COLO Print Name Phone No. Truck No. Signature ONUTE STAMP DISPOSAL FACILITY RECEIVING AREA Name/No. DISPOSAL FACILITY RECEIVING AREA Name/No. Phone No. 575-393-1079 REST THE PAINT FILTER TEST? (Circle One) VES NO TANK BOTTOMS TRANSPORTER TRANSPORTER DISPOSAL FACILITY RECEIVING AREA Name/No. DISPOSAL FACILITY RECEIVING AREA Name/No. Phone No. 575-393-1079 TANK BOTTOMS TANK BOTTOMS TOTAL Received TANK BOTTOMS TOTAL Received The paint Filter TEST? (Circle One) VES NO TANK BOTTOMS Truck No. Truck	oad is (Check the appropriate classification)	•	,		and a sail tabb reflaigtor & defettill	ation, the above described waste
RCFA NON-EXEMPT: City College	RCRA EXEMPT: Off field v	rastes generated from oil and gr	as exploration and production oper	ations and are	not mixed with non-average uncted to	2250 0 440-14
hazardous is attached. (Check the appropriate liems as provided) MSDS information RCRA Histardous Waste Analysis Other (Provide Description Below) EMERGENCY NON-GILFEILD: Emergency non-hazardous, non-oilfelid waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form) PRIMITY SOWALLE TRANSPORTER Driver's Name Print Name TRUCK TIME STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Feet Inches Read Feet Vacore Truck Time Test? (Circle One) YES NO NORAM READINGS TAKEN? (Circle One) YES ON NORAM PRINT THE TEST? (Circle One) YES ON NORAM PRINT THE ABOVE load material has been (cyrcle one) ACCEPTED CEWICE TOTAL Received Total Recei	load basi	i only)	,		The trible of the tribe waste (F	abou Accepts certifications on a per
hazardous is attached. (Check the appropriate liems as provided) MSDS information RCRA Histardous Waste Analysis Other (Provide Description Below) EMERGENCY NON-GILFEILD: Emergency non-hazardous, non-oilfelid waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form) PRIMITY SOWALLE TRANSPORTER Driver's Name Print Name TRUCK TIME STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Print Name Name/No. Allfur STAMP OUT: RECEIVING AREA Name/No. Feet Inches Read Feet Vacore Truck Time Test? (Circle One) YES NO NORAM READINGS TAKEN? (Circle One) YES ON NORAM PRINT THE TEST? (Circle One) YES ON NORAM PRINT THE ABOVE load material has been (cyrcle one) ACCEPTED CEWICE TOTAL Received Total Recei	RCRA NON-EXEMPT: Oil field v	aste which is non-hazardous th	at does not exceed the minimum o	tanda edu da a	ata base of the later of the la	
MSDS information RCRA Hazardous Waste Analysis Other (Provide Description Below)	261.21-20	1.24, or listed hazardous waste	as defined by 40 CFR part 751 en	tenuarus ror w	aste nazardous by characteristics est:	ablished in RCRA regulations, 40 CFI
EMERGENCY NON-CILIFEILD: Emergency non-hazaradous, 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 ALTIVOLECE ACENTS NAME	hazardou	s is attached. (Check the approp	riate items as provided)	abair D, R5 am	inded. The following documentation	demonstrating the waste as non-
EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has bren ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form) (PRINT) AUTHORIZED AGENTS JAMM (PRINT)						
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TRANSPORTER TRANSPORTER TRANSPORTER Truck No. Inches TRUCK TIME STAMP OUT: TRUCK TIME STAMP No. TRUCK TIME delice to the disposal facility listed below. TRUCK TIME deposal facility listed	EMERGENCY NON-OILFEILD: determine	y non-hazradous, non-oilfeild w	aste that has been ordered by the	Department of	Public Safety (the order, documenta	tion of non-hazardous waste
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Print Name Phone No. Indeedy 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 below. SHIPMENT DATE TRUCK TIME STAMP OUT: IN A Name / No. B Name / No. Phone No. S75-393-1079 DISPOSAL FACILITY RECEIVING AREA Name / No. ANAM (Palm) PASS THE PAINT FILTER TEST? (Circle One) Feat Inches SSEW/BBLS Received I denied, why? ACCEPTED DENIED If denied, why? AMM (Palm) DATE Phone No. S75-393-1079 DENIED If denied, why? AMM (Palm) DATE DENIED If denied, why? AMM (Palm) DATE	ransporter's h/\ IA/\ .A^		INMNSPURIE	K		
Print Name Phone No. Truck No. SHIPMENT DATE ORIVER'S SCINATURE ORIVER'S SCINATURE TRUCK TIME STAMP OUT: Name/No. Phone No. ST75-393-1079 SEC 1400 bbs Hwy US 62/180 Mile Marker 66 Carisbad, NM 88220 NORM READINGS TAKEN? (Circle One) PASS THE PAINT FILTER TEST? (Circle One) PEET Inches BS&W/SBLS Received TANK BOT IOMS Feet Inches BS&W/SBLS Received Total Received I heraby certify that the above named material has been (circle one) ACCEPTED DENIED I denied, why? ACCEPTED DENIED If denied, why? NAME (PRINT) DATE PASS THE PAINT FILTER TEST? (Circle One) NAME (PRINT) NAME (PRINT) NAME (PRINT) DATE PASS THE PAINT Has above load material has been (circle one) ACCEPTED DENIED I denied, why? NAME (PRINT) DATE PASS THE PAINT HAS BOY IOMS Free Water TOTAL Received BS&W/SBLS Received BS&W		i furt	Drív	er's Name	1010	
hereby certify that the above named material(s) wes/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. SILIPMENTORIE ORIVERS SONATURE DISPOSAL FACILITY RECEIVING AREA DELIVERY DAYERS SIGNATURE DISPOSAL FACILITY RECEIVING AREA Name/No. DISPOSAL FACILITY NAME/NO. DISPOSAL FA	ddress		···········		Caro	
Truck No. SIEMENT DATE ORIVERS SCHWATURE ORIVERS	***************************************		Print	Name		
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TRUCK TIME STAMP N: OUT: TRUCK TIME STAMP Norme/No. April Name/No.	hereby certify that the above named material	(c) was hugen nighted up as short		*		
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TRUCK TIME STAMP N: OUT: RECEIVING AREA Name/No. Halfway Facility / NM1-006 Fhone No. 575-393-1079 ANDRI (PBIMT) NAME (PBIMT) DATE Phose No. 575-393-1079 Phone No. 575-393-1079 If YES, was reading > 50 micro roentgens? (circle one) YES NO INC. BSS.W/BBLS Received BSS.W (%) Free Water Total Received Total Received No. 575-393-1079 Phone No. 575-393-1079 If YES, was reading > 50 micro roentgens? (circle one) YES NO INC. BSS.W/BBLS Received BSS.W (%) Free Water Total Received Total Received Total Received No. 575-393-1079 Phone No. 575-393-1079 If YES, was reading > 50 micro roentgens? (circle one) YES NO INC. BSS.W/BBLS Received BSS.W (%) Total Received	SHIPMENT DATE	ORIVER'S STRATURE		0 20-	18 X From	,
N: OUT: Name/No. Also Name/No.	エロログレ ていんに こてん				DATE	DRIVER'S SIGNATURE
N: OUT: Name/No. Allfway Facility / NM1-006 Phone No. 575-393-1079 ### NORM READINGS TAKEN? (Circle One) YES O If YES, was reading > 50 micro roentgens? (circle one) YES OO NO ### ANK BOTIOMS Feet		'ML [DISPOSAL FACIL	ITY	RECEIVIN	IG ARFA
te Name/ permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079 Remit No. Halfway Facility / NM1-006 Phone No. 575-393-1079 NORM READINGS TAKEN? (Circle One) YES O If YES, was reading > 50 micro roentgens? (circle one) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO ANK BOTTOMS Feet Inches Gauge Ceived SS&W/BBLS Received BS&W/BBLS Received BS&W (%) Thereby certify that the above load material has been (circle one)? ACCEPTED DENIED If denied, why? NAME (PRINT) DATE NAME (PRINT) DATE	N: OUT:			··········		The s
Phone No. 575-393-1079 Halfway Facility / NM1-006	te Name/				Name/No.	עאטו
MORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO IANK BOLLOMS Feet Inches Cauge of Gauge one of Take Water Total Received Total Received Thereby certif, that the above load material has been (circle one) ACCEPTED DENIED If denied, why?	•		Phor	e No		·
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Feet Inches Caage BS&W/BBLS Received BS&W(%) Gauge Free Water Ceived Total Received I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? NAME (PRINT) DATE DESCRIPTION DATE	PASS THE PAINT FILTER TEST? (Circle	One) YES			io in (with billion	
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ACCEPTED DENIED If denied, why? NAME (PRINT) DATE ### BS&W/BBLS Received BS&W (%) Free Water Total Received TOTAL Received BS&W (%)	Feet	Inches	TAIN DOLLOW	3		
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1 hereby certify that the above load material has been (circle one). ACCEPTED DENIED If denied, why? NAME (PRINT) DATE DATE	nd Gauge			0.367	^~^-	BS&W (%)
1 heraby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? NAME (PRINT) DATE DATE	ceived				LICE ANGLEL	
NAME (PRINT) DATE DATE DEVIEW If denied, why?			1 1		Total Received	
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	I hereby certify that the above load material	ras been (circle one)) ACC	CEPTED DENIED If d	enied, why?	Total Received	
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C-138

White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



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 #: Bid #:

700-905532 Walk-in Bid 6/25/2018

Date: Generator: **VANGUARD**

Generator #: Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #: Ria:

NON-DRILLING County 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

Generator 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 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 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)

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_	.,.	~ 1 1		CIIL	U 134	mature	

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

t6UJ9A010FEH

6/25/2010

E 2 11

TRANSPORTER'S MANIFEST

7.4.1137 37.		
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:		**************************************
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. MARTA I RUCKING BOLLY DU MP TWUE # 150 38		Name: Fall Saul Signature: ET Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 18 Autoroco
	Direct Bill: Care Of:	Vanguard Operating, LLC Kvie Zimmerman



ENVIRONMENTAL SOLUTIONS Permian Basin	50	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	AMBER GRO	VE	LC	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		OOBEJ RNE OIL INER RID LLING	
Facility: CRI									
Product / Service			,	Qı	uantity U	nits			
Contaminated Soil (Re	CRA Exemp	t)			20.00 y				
Cell	рН	Cl Cond	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis; 50/51	0.00	0.00 0.00	0 0				***************************************		
Generator Certificatio I hereby certify that accor 1988 regulatory determine X RCRA Exempt: Oil F RCRA Non-Exempt: characteristics established amended. The following of MSDS Information	ding to the Re tion, the above ield wastes ge Oil field waste in RCRA reg locumentation	source Conserve described was nerated from oile which is non-hulations, 40 CFI is attached to c	ation and Recove ste is: I and gas explora nazardous that do R 261.21-261.24 of Iemonstrate the a	tion and pressure tisted habove-description	roduction of eed the min zardous was ribed waste	perations and a limum standard iste as defined i	are not mixe s for waste in 40 CFR, j	d with non hazardous part 261, su	by bpart D, as
Driver/ Agent Signatur	e		R360 R	lepresent	tative Sig	nature			
2/4/3			_//	M					
Customer Approval						-			
		THIS	S IS NOT	AN IN	VOICI	Ξ!			

Approved By: Date:

t6UJ9A010FEY

TRANSPORTER'S MANIFEST

TRANSF	PORTER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Plains Marketing, LP 505 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	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL VOLUME: 0	
FACILITY CONTACT:	
Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	Signature MMY 410VL Date: 4 31 348 6 22 20/8
NAME OF TRANSPORTER: (DRIVER)	
**************************************	Name: Hactor B Signature: 71 +/8
	Date: 6-27-18
DISPOSAL SITE: Lea Land, Inc. NMOCD Permit #NM-01-035 Mile Marker 64, 62/180, Carlsbad, NM 88220	Signatures J. Manzalz
	Date: <u>4-12-18</u>
	Direct Bill: Plains Marketing, LP



VANGUARD PERMIAN Customer:

Customer #: CRI5830 Ordered by: CHUCK JOHNSTON

AFE#:

PO #: Manifest #:

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

Hauler. JUAN Driver 39

Truck # Card# Job Ref# Ticket #:

700-905556 Walk-in Bid

Bid #: 6/25/2018 Date: VANGUARD Generator:

Generator#:

03849 Well Ser. #:

ABO SWD ROC Well Name: 002

Well#:

Field:

Field #:

NON-DRILLING Rig: LEA (NM) County

H2S

Facility: CRI

Product / Service

Quantity Units

20.00 yards

Contaminated Soil (RCRA Exempt)

Cond.

PCI/GM TDS %Solids

MR/HR

Weight % Oil

0.00 Lab Analysis: 50/51 0.00 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:

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

THIS IS NOT AN INVOICE!

Date: Approved By:

t5UJ9A010FKF

1-23/20 Person

TRANSPORTER'S MANIFE	ST
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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	
No.	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
EACUTY CONTACT	
Chack Johnston	201101
Kyle Zimmerman	Signature:
Vanguard Operating, LLC	Signature:
4001 Penbrook, Suite 201, Odessa, TX 79762	Date: 6-30-18
·	
NAME OF TRANSPORTER: (DRIVER) M Mata #39 20 yard	3 Track 5 12 0
1/2-2	17014119
#3920 Vaid	Name: Juan Gelaurz
- / /	/ // 3/2
	Signature Signature
•	Date: 6/2//8
DISPOSAL SITE:	
.R360 Halfway Facility	
4507 W Carlsbad Hwy PO Box 388	
Hobbs, NM 88241	Signature:
, 10003, 1979 GOZ41	
	Date: 472
А	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Care Of: Kyle Zimmerman

¥.



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

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

Hauler: Driver M MATA TRUCKING LLC ADRIAN

Truck# 12

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

Well#; (Field:

Field #:

Rig: County

NON-DRILLING

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 % 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 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 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

THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

t6UJ9A010FKM

6/25/2018 10 C 1 -

TRANSP	ORTER'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, 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:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chack Johnston Kyle Einmennen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Oldfald Date: 6-30-18
NAME OF TRANSPORTER JORIVER) MMa 439 20 1/0. Twck #12	Ta Trocking Adrian G Name: Josephanic Signature: 439 Date: 6/2//8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Market
•	Direct Bill: Vanguard Operating, LLC



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

PO #:

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

Hauler: Driver

M MATA TRUCKING LLC LALO

Truck # 150

Card # Job Ref# Ticket #: Bid #:

700-905563 Walk-in Bid

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

Generator #:

Well Ser. #: 03849

002

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

На CI Cond. %Solids 0.00

TDS

PCI/GM 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 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 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)

Deliversi	A	C1
Driver	MOBOL	Signature
		- Guntaio

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010FM0



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

Company Man Contact Information
Name CHVCK Johnston

			Control Control				Phone No.	H-1
		,,=,,,,=,,,,=,,,,=,,,,,=,,,,=,,,,=,,,,=,,,,		GENERAT	OR		^{o.} 31040	0
Operator No	o. <u> </u>	<u> </u>	<u> </u>		Permit/RRC	No.	·	~
Operators N	vame Vangyar	d Pa	ymran		Lease/Well Name & No.	ABO	SWD	Rue oo
Address	·	\	-		County			
		***************************************			API No.			
City, State, 2	čip	·····			Rig Name & I	No.	······································	
Phone No.	***************************************				AFE/PO No.			······································
i i	EXEMPT E&P	Maeta/Sarvice Ir	lentification and	Amount Inlaca	•	to waste type in barreis		······································
Oil Based M	1802	NON-INJECTAL	BLE WATERS	Attiount (place)	Olume next	INJECTABLE WATERS		
Oil Based Cu Water Base			er (Non-Injectable)			Washout Water (Inje	ectable)	
Water base			uid/Flow back (Non ter (Non-Injectable)		**	Completion Fluid/Flo		Annual Andrew Annual An
Produced Fo	ormation Solids		e Water/Waste (No			Produced Water (Inj Gathering Line Wate	,	
Tank Botton E&P Contain	***************************************	INTERNAL USE	ONLY	***************************************	·····	OTHER EXEMPT WAS	TES (type and generation proc	ass of the waste)
Gas Plant W		Truck Washou	it (exempt waste)					
	NERATION PROCESS:	DRILLING		COMPLETION		PRODUCTION	F GATUCOU	
			ALCAN EVELANT ER D				GATHERI	NG LINES
	All non-exempt E&	P waste must be ar	NON-EXEMPT E&P palysed and be belo	Waste/Service inc w the threshold lin	ntification and nits for toxicity	Amount (TCLP), ignitability, Corrosi	otty and Reactivity.	
Non-Exempt	Other					ct from Non-Exempt Wast		
QUANTITY			8 - BARRELS		L-LIQUID	<i>K</i> .	yARDS	E - EACH
I hereby cert	ify that according to the Resource Cons	servation and Reco	verv Act (RCRA) an	d the LIS Environment	-		7	
■ EMER	hazardous is at MSDS informat Emergency non-	or listed nazardous tached, (Check the don	s waste as defined to appropriate items and RCRA Hazardous	by 40 CFR, part 2G1 as provided) s Waste Analysis as been ordered by	, subpart D, as	or waste hazardous by charramended. The following do Other (Provide Description of Public Safety (the order	comentation demonstrati ation Below)	ng the waste as non-
ransporter's lame	LEK TUHNS FUN LIPRIHTI) AUTHORIZEO AGENTS NAME	4 7	TR	ANSPOR	T ER Driver's Name Print Name	<u>Ja</u>	SIGNATURE	
Fransporter's Name Addr e ss	PRINT) AUTHORIZED AGENTS NAME	1	TR	ANSPOR	T ER Driver's Name Print Name		lo .	
Fransporter's Name Address Phone No.	IPRINT) AUTHORIZED AGENTS NAME M. MATH	4	TR	ANSPOR	TER Driver's Name Print Name Phone No. Truck No.	Ja		
ransporter's lame address	PRINT) AUTHORIZED AGENTS NAME	4	TR	ANSPOR	TER Driver's Name Print Name Phone No. Truck No. d delivered with	nout incident to the disposa		
ransporter's Name Address 'hone No. hereby certif	IPRINT) AUTHORIZED AGENTS NAME M. MATH	4	TR	ANSPOR	TER Driver's Name Print Name Phone No. Truck No. d delivered with	mout incident to the disposa	O I facility listed below	TIEP
Fransporter's Name Address Phone No. hereby certif	IPRINT) AUTHORIZED AGENTS NAME M. M	s/were picked up a	TR	ANSPOR	TER Driver's Name Print Name Phone No. Truck No. d delivered with	nout incident to the disposa いとのいって .iveny date	ol facility listed below.	
Fransporter's Name Address Phone No. hereby certif	IPRINT) AUTHORIZED AGENTS NAME M. M	s/were picked up a	TR	ANSPOR	TER Driver's Name Print Name Phone No. Truck No. d delivered with	nout incident to the disposa - 5 ー ら UVERY DATE	O I facility listed below. DRIVER'S SIGNA RECEIVING AREA	
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Phone No. hereby certif N: lite Name/ rermit No. address PA st Gauge nd Gauge eceived	IPRINT) AUTHORIZED AGENTS NAME TY that the above named material(s) was provided the state of th	S/were picked up a ORIVES STIGNATURE Marker 66 Carlsbad, 1) YES 1)	TR It the Generator's s DISP NM 88220 ACCEPTED	Site listed above and	TER Driver's Name Print Name Phone No. Truck No. d delivered with CILITY Phone No. If YES, was rea O	Name/N 575-393-1079 S8W/B9LS Received Free Water Total Received	DRIVERS SIGNA RECEIVING AREA O. GOIS (circle one) YES	Q ₀
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C-138

White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



VANGUARD PERMIAN Customer:

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Manifest #: NA

Manif. Date: 6/25/2018

Hauler: Driver Truck # M MATA TRUCKING LLC JUAN

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

002

Well#: Field:

Rig:

Field #:

NON-DRILLING

County

LEA (NM)

acility: CRI

roduct / Service

Quantity Units

ontaminated Soil (RCRA Exempt)

20.00 yards

Cell CI %Solids Cond. 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:

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 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)

river/	Agent	Signature
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Marinelune

R360 Representative Signature

ustomer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010FM6

6/25/2010

TRANSPOR	TER 2 IVIA	INIFEST
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: ChiphA Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MATA TRUCKING BOLLY DUMP THUK # 150 38		Name: Fall Saul Signature: ET Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: J. M. Autura Date: U. 2017
	Direct 8ill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



MEWBOURNE OIL CO Customer:

Customer#: CRI4110 Ordered by: AMBER GROVE

AFE#: PO #:

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

Hauler: Driver

Job Ref#

M MATA TRUCKING LLC **HECTOR**

Truck # Card #

30

Ticket #:

700-905611

Bid #: Date:

O6UJ9A000BEJ 6/25/2018

Generator: MEWBOURNE OIL CO

Generator #:

Well Ser. #: 42708

Well Name: FORTY NINER RIDGE UNIT

103H

Well#: Field:

Field #:

Rig: County

MR/HR

NON-DRILLING EDDY (NM)

Facility: CRI

Product / Service Quantity Units

PCI/GM

Contaminated Soil (RCRA Exempt)

20.00 vards

Cell ĊΙ Cond. %Solids Lab Analysis: 50/51 0.00 0 00 0.00

H₂S

% 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 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
7/1R	R360 Representative Signature
/	
Customer Approval	

THIS IS NOT AN INVOICE!

Approved By: Date:	
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TRANSPORT	TER'S MA	ANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Plains Marketing, LP 505 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 80X 1263, Hobbs, NM, 88241		CAN'T EN 772 U EN 772 U
DESCRIPTION OF WASTE:	········	, serviniali (1990) — may jedjelmini ara may 1998 — may
E&P EXEMPT IMPACTED SOIL VOLUME: 0 0		
FACILITY CONTACT: Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	,,	Signature: My 1/2012 7 Date: 4 31/208
NAME OF TRANSPORTER: (ERIVER)		Name: Hector B Signature: 7/1/8 Date: 6-27-18
<u>DISPOSAL SITE:</u> Lea Land, Inc. NMOCD Permit #NM-01-03S Mile Marker 64, 62/180, Carlsbad, NM 88220		Signature J. Montalz M. Date: U-22-18 lens 18
·		Date: 4-22-18 6-25-18
	Direct Bill: Care Of:	Plains Marketing, LP Amber Groves



MEWBOURNE OIL CO Customer:

Customer #: CRI4110

Ordered by: AMBER GROVES

AFE #: PO #:

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

Hauler:

M MATA TRUCKING LLC 'HECTOR

Driver Truck #

Card # Job Ref# Ticket #: Bid #:

700-905664 O6UJ9A000BEJ

Date:

6/25/2018 Generator: MEWBOURNE OIL CO

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 yards

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

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)

)river/ Agent Signature

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

t6UJ9A010G1V

6/25/2018 3 (Feb.)



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTONQ

SAUL

38

AFE #: PO #:

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

Hauler:

Driver Truck #

Card # Job Ref# Ticket #: Bid #:

700-905679 Walk-in Bid

Date: Generator: 6/25/2018 **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

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 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/	Ann	· Ctar	4
DITABLE	Mycu	t Willi	iaiui e

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

pproved By:	Date:
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t6UJ9A010G3i

6/25/2018 4.11



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

Cor Name	Physical division	η
waine_\	The CAC MOLL MID.	

					Phone No.	·····
			GENER	RATOR	No. 310429	
Operator No.	lΛ ta Λ	A -A	***************************************	Permit/RRC No.	010420	
Operators Name	KANAMA	(21)		Lease/Well	A BO SUID 7	
Address	11.70-0011		***************************************	Name & No.	11000000	
	······································		***************************************	County		
				API No.		
City, State, Zip				Rig Name & No.		
Phane No.		***************************************	***************************************	AFE/PO Na.		
	EXEMPT E&P W	aste/Service Ideo	tification and Amount In	dace volume covers.	vaste type in barrels or cubic yards)	
Oil Based Muds		NON-INJECTABLE	WATERS	nace volume next to t	Vaste type in barrels or cubic yards) INJECTABLE WATERS	
Oil Based Cuttings	***************************************	Washout Water (I	Non-Injectable)	**************************************	Washout Water (Injectable)	««««
Water Based Muds Water Based Cuttings	***************************************	Completion Fluid/	Flow back (Non-Injectable)		Completion Fluid/Flow back (Injectable)	H
Produced Formation Solids		Produced Water (Non-injectable) ater/Waste (Non-injectable)	W	Produced Water (Injectable)	
Tank Bottoms		INTERNAL USE ON			Gathering Line Water/Waste (Injectable) OTHER EXEMPT WASTES (type and generation process of	
E&P Contaminated Soil Gas Plant Waste	20	Truck Washout (e:	kempt waste)	***************************************	CALLEGACION I AND LES (Abs sun Benevation blocess of	the waste)
WASTE GENERATION PRO	- FECT. []	<u> </u>	Patenty			
WASTE GENERALIDIA FINO	-5.3.	DRILLING	[] COMPLE		PRODUCTION GATHERING LI	INES
·	All non-exempt E&P	NO! waste must be analy	N-EXEMPT E&P Waste/Servious and be below the thresh	ce Identification and Am	ount LP), ignitability, Corrosivity and Reactivity.	
Non-Exempt Other			33 333 44 431			
OHANTIY				picuse sereet ji	om Non-Exempt Waste List on back	
QUANTITY	·····		3 - BARRELS	E - LIQUID	Y - YARDS	E - EACH
I hereby certify that according load is (Check the appropriate	to the Resource Consert classifications	vation and Recovery	Act (RCRA) and the US Envi	ironmental Protection Ap	ency's July 1988 regulatory determination, the above d	escribed waste
18:30						
RCRA EXEMPT:	load basis only)	enerated nath on an	n Rea exbiolytion and blodni	ction operations and are	not mixed with non-exempt waste (R360 Accepts certi	fications on a per
ACRA NON-EXEMPT:		lch is non-hazardous	s that does not nuroed the +	efalmina esta a di il i		
_				unnuun standards tor w itt 261, subbari Di ac am	aste hazardous by characteristics established in RCRA re ended, The following documentation demonstrating the	egulations, 40 CFR
	hazardous is attac	hed. (Check the app	ropriate items as provided)	ar aray and point by as and	enoug, the longwing documentation demonstrating the	è waste as non-
	MSDS Information	<u></u>	CRA Hazardous Waste Analy	rsis 🗀	Other (Provide Description Below)	
					- and the observation actors	
EMERGENCY NON-OILFE	Emergency non-h	azradous, non-oilfeil	d waste that has been order	ed by the Department of	Public Safety (the order, documentation of non-hazard	
	determination an	d a desciption of the	waste must accompany this	form)	The safety this cities, documentation of non-hazard	lous Waste
(PRINT) ALTHORIZED A	ELIT DALIS		***************************************	***************************************	*****	
	CALL OF THE PARTY.			DATE	SIGNATURE	
ransporter's			TRANSPO	ORTER	_	15.35
lame /	MAIA	Trucks	Wa.	Oriver's Name	Cent	*************************************
ddress		111470	* *} —		<u> </u>	
	····	······································		Print Name		
hone No.			***************************************	Phone No.	26	
***************************************			······································	Truck No.	70	
nereby certify that the above n	amed material(s) was/	were picked up at the	: Generator's site listed abov	ve and delivered without	incident to the disposal facility listed below.	
SHIPMEHT DATE				u-25-		whe
William Control of the Control of th		DAIVER'S SIGNATURE		DELIVER	DAITE DRIVEN'S SIGNATURE	v-ue
	IME STAMP	1	DISPOSALF	ACILITY	RECEIVING AREA	
N:	OUT:	ļ			and the second s	ı
te Name/		***************************************		L	Name/No. <u>60/5/</u>	
ermit No. Halfway Facilii	y / NM1-006			Phone No.	7E 202 1070	
idress 6601 Hobbs H	vy US 62/180 Mile Mar	ker 66 Carlsbad, NM	88220	4	575-393-1079	
	TAKEN? (Circle One)		<i>f</i> .			
PASS THE PAINT FILT		YES	\ / °)	If YES, was reading	> 50 micro roentgens? (circle one) YES	400
	ar rest (cital one)	YES		МО		
	Tip.		TANKBOT	TOMS		
t Gauge	Т	nches		p-1		
d Gauge				BS&V	//BBLS Received BS&W (%)	
celved					Free Water Total Received	
					10 for ust sixed	
I hereby certify that the above	pad material has been	(cycle one):	ACCEPTED DENIED	If denied, why?		
	7	6-14-	-15			
NAME [PRINT]	N	1 11	17)	The same of the sa		
		DAYE				
		DAYE	***************************************	Ditt	SIGNATURE	
138 White P	360 ORIGINAL	DATE Yellow - TRANSF			SIGNATURE COPY Gold - RETURN TO GENERATOR	www.wwy.wy



Customer: VANGUARD PERMIAN

Customer #; CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

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

Hauler:

M MATA TRUCKING LLC

Driver LALO Truck # 150

Card # Job Ref # Ticket #: Bid #:

700-905680 Walk-in Bid 6/25/2018

Date: 6/25/2018 Generator: VANGUARD

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 0.00 0

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 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 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!

pproved By:	Date:

3UJ9A010G3K

6/25/201d 4 to



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

Company Man Contact Information
Name CHUCK JOHNSTON

							Phone No.		
Opgrator #1-				SENERAT	***************************************	***************************************	^{vo.} 3103	398	
Operator No.	1 }				Permit/RRC f	No			•••••
Operators Name	Vanguar	Per	man		Lease/Well Name & No.	_ABC	5W5	Rec	00.2
Address					County				<u> </u>
					API No.		*************************************		
City, State, Zip					Rig Name & N			Partition	********
Phone No.					AFE/PO No.	40,			
	EVERADT CO.O.	Marta (Cardas I	1						
Oil Based Muds	EALIST LEXT	NON-INJECTA	denuncation and ,	Amount (place vi	olume next t	o waste type in barreis	or cubic yards)		
Oil Based Cuttings	Maddanagana	Washout Wa	ter (Non-Injectable)			INJECTABLE WATER Washout Water (Inj			
Water Based Muds Water Based Cuttin			luid/Flow back (Non-	injectable)		Completion Fluid/Fl	ow back (Injectable)		***************************************
Produced Formation			ter (Non-Injectable) e Water/Waste (Nor	-Iniertahia)		Produced Water (In		-	
Tank Bottoms		INTERNAL US	E ONLY		·····	OTHER EXEMPT WA	er/Waste (Injectable) STES (type and general	on process of the w	rsetal
E&P Contaminated Gas Plant Waste	Soil	Truck Washot	ut (exempt waste)						W-1
WASTE GENERAT	ION PROCESS:	DRILLING	[]	COMPLETION	, , , , , , , , , , , , , , , , , , , ,		——————————————————————————————————————		
	1.	DITECTIVO			Į.	PRODUCTION	GAT	HERING LINES	
	All non-exempt E8	LP waste must be a	NON-EXEMPT E&P \	Naste/Service Iden withe threshold limi	tification and A	Amount (TCLP), Ignitability, Corros	hallen and Daniel Is		
Non-Exempt Other				. com any control of this		t from Nan-Exempt Wass		·····	
QUANTITY						- Translating Was	e clac on back		
			B - BARRELS		L - LIQUIO	1	YARDS		EACH
nereby certify that : load is (Check the ap	according to the Resource Con propriate classification)	servation and Reco	overy Act (RCRA) and	the US Environmen	ntal Protection	Agency's July 1988 regula	atory determination,	the above descri	bed waste
		s generated from o	ul and gas evoloration	s and production o	naendaes sad	are not mixed with non-ex			
RCRA EXEMP	load basis only	i)	and gas captorago	ri and production b	perations and	are not mixed With hon-ex	rempt waste (R350 A	ccepts certification	ons on a per
RCRA NON-E	XEMPT; Oil field waste	which is non-hazar	dous that does not e	exceed the minimur	n standards fo	r waste hazardous by chai	rartosistice octablishe	rd in BCDA rosula	Mane 30 005
		O RATEU HAZAIOUU	is waste as delined o	17 40 CFH, 1981t 261.	subpart D, as a	amended. The following d	ocumentation demo	nstrating the was	ite as non-
	Tracer about is a	wached, joneck bie	: appropriate items a	s provided)	_			~	
	MSDS Informa	tion	RCRA Hazardous	Waste Analysis	[Other (Provide Descri	ption Below)		
	*			·····	***************************************	***************************************			
EMERGENCY N	VON-DILFEILD: tmergency nor determination	n-ha <i>ttad</i> ious, non-o and a desciption of	olifelid waste that has f the waste must acci	s been ordered by ti ompany this form)	he Oepartmen	t of Public Safety (the ord	er, documentation of	non-hazardous	waste
····				,					
(PRINT) AI	UTHORIZED AGENTS NAME			DA*			Signature		
Transporter's	- MATA T		TR	ANSPORT	ER				
Name				0	river's Name		1-10		
Address			w	,		······	JUCO		
	······································				rint Name				
Phone No.	·		······		hone No. ruck No.				······································
hereby certify that it	a photo carnod materially					<u> </u>	0	10.10±11	
thereary service court in	he above named material(s) wa	эз/were ріскад цр ;	at the Generator's sit	te listed above and	delivered with	out incident to the disposi	al facility listed belov	1.	
SHIPMENT DA	ATE	DAIVER'S SIGNATURI	f		6.2	18-18 VERY DATE	AN A	•	
TI	RUCK TIME STAMI			SCAL FAC	*****			'S SIGNATURE	
iN:		,	DISPE	DSAL FAC	ILIIY		RECEIVING A	REA	
***************************************	OUT:		<u>_</u>			Name/N	lo. 51	1151	ľ
lite Name/ Permit No. Half	fway Facility / NM1-006			OH	ione No.				
	***************************************			rı	iqiig 140.	575-393-1079	·····		
	1 Hobbs Hwy US 62/180 Mile M		, NM 88220			**····································	Control of the second s		
	READINGS TAKEN? (Circle One		> 6	ţ	f YES, was reac	ding > 50 micro roentgens	? (circle one)	YES Z	-m-
PASS (HE)	PAINT FILTER TEST? (Circle One	:)	res)	NO					
	֥			KBOTTO	MS				SCHOOL MARKET
st Gauge	Feet	- In	rhat	,		***************************************			
nd Gauge				 	89	&W/BDLS Received	658	W (%)	
eceived		***************************************		 		Free Water Total Received			
Maria de la companya del companya de la companya de la companya del companya de la companya de l	****			L	****				
I hereby certify that	the bove load material has b	een (circle one):	ACCEPTED	DENIED	If denied, why	?		Print of the last of the second stocks	A 40 (0) (0) (0) (0) (0)
	V	6-16	718	\sim		NIV.	J		****
N	iame (Print)	Ď	ATE	me		- A.	SIGNATURE		
							and the stands		

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

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

Hauler:

M MATA TRUCKING LLC

Driver JUAN Truck # 39

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

Date: 6/25/2018 Generator: VANGUARD

Generator #:

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

Well #: 002

vveii #: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

icility: CRI

roduct / Service

Quantity Units

20.00 yards

ontaminated Soil (RCRA Exempt)

Cell pH Cl Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight 1b Analysis: 50/51 0.00 0.00 0.00 0

enerator Certification Statement of Waste Status

sereby 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:

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 iended. 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
stomer Approval	

THIS IS NOT AN INVOICE!

oproved By:	Date:	
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UJ9A010G3O

6/25/2018 (1)

R360
Operator No

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

Name Name Name Name Name Name Name Name

				Phone i	No.
i		GENERAT	OR	NO. 1	310428
Operator No.		***************************************	Permit/RRC No.		710420
Operators Name Van	guord		Lease/Well	14131) ST	\() \()
Address	700-1	**************************************	Name & No.	1 JOY CV	JUL
		***************************************	County	······································	
City, State, Zip	////	*************************************	API No.		
Phone No.		**************************************	Rig Name & No.	**************************************	
	VELANT CONTINUE TO THE		AFE/PO No.		
Oil Based Muds	NON-INJECTA	dentification and Amount (place v	olume next to w		yards)
Oil Based Cuttings		er (Non-Injectable)	***************************************	INJECTABLE WATERS Washout Water (Injectable)	
Water Based Muds Water Based Cuttings		luid/Flow back (Non-Injectable)		Completion Fluid/Flow back (Injectable)
Produced Formation Solids		ter (Non-Injectable) e Water/Waste (Non-Injectable)		Produced Water (Injectable)	//
Tank Bottoms	INTERNALUSI	EONLY	· · · · · · · · · · · · · · · · · · ·	Gathering Line Water/Waste OTHER EXEMPT WASTES (type	and generation process of the waste)
E&P Contaminated Soil Gas Plant Waste	Truck Washou	it (exempt waste)			
WASTE GENERATION PROCESS	DRILLING	COMPLETION	[]	PRODUCTION	
	Lange Control of the			······································	GATHERING LINES
All r	on-exempt E&P waste must be a	NON-EXEMPT E&P Waste/Service Iden nalysed and be below the threshold lin	itification and Amo	unt	
Non-Exempt Other		and we will the Confidence of		ır, ignicability, Corrosivity and i im Non-Exempt Waste List on	
			pieuse serect jre	in Non-Exempt Waste List on	DOCK
QUANTITY		B - BARRELS	L - LIQUID	Y-YARDS	E - EACH
I heraby certify that according to the	Resource Conservation and Reco	ivery Act (RCRA) and the US Environme	ental Protection Agr	ancy's July 1988 regulatory dete	rmination, the above described waste
The appropries classic	icacioni				
RCRA EXEMPT:	Oil field wastes generated from o load basis only)	il and gas exploration and production o	perations and are	not mixed with non-exempt wa	ste (R360 Accepts certifications on a per
	**	date that done not award the			
LI HOW EXCHA!	261.21-261.24, or listed hazardou	is waste as defined by 40 CFR, part 261	m stangards for wa . subpart D. as ame	iste hazardous by characteristic inded. The following documents	s established in RCRA regulations, 40 CFR ation demonstrating the waste as non-
	hazardous is aitached. (Check the	appropriate items as provided)	,	makes the following populitiests	adon demonstrating the waste as non-
	MSDS Information	RCRA Hazardous Waste Analysis		Other (Provide Description Belo	ow)
	***************************************	***************************************			
EMERGENCY NON-OILFEILD:	mergency non-hazradous, non-o	ifeild waste that has been ordered by	the Department of	Public Safety (the order, docum	nentation of non-hazardous waste
J	resermination and a desciption of	the waste must accompany this form)	ı		
(PRINT) AUTHORIZED AGENTS I	AMÉ	0.	AYE		SIGNATURE
	**************************************	TRANSPORT	rep		
Transporter's	MANTA TOWN	I TRANSFOR	EK		
Name //	MAIN LIM	WY	Driver's Name	JAGR	ገ
Address			Print Name		
20000000000000000000000000000000000000			Phone No.	مسرر (<i>ا</i> ر د	
Phone No.		-	Fruck No.	7,50	
I hereby certify that the above named	material(s) was/were picked up a	at the Generator's site listed above and	 غيرة delivered with	incident to the disposal facility.	liste de la
······································	4-4		Le 15	-18 WZ	
SHIPMENT DATE	DRIYER'S SIGNATUR		DELLYERY		DRIVER'S SIGNATURE
TRUCK TIM	E STAMP	DISPOSAL FAC	ILITY	RECE	VING AREA
IN:(OUT:			Name/No.	6) /5/
Site Name/		****	L		90/3
Permit No. Halfway Facility / N			hone No.	75-393-1079	
Address 6601 Hobbs Hwy U	62/180 Mile Marker 66 Carlsbad	, NM 88220			
NORM READINGS TAK	EN7 (Circle One) YES	(NO)	If YES, was reading	> 50 micro roentgens? (circle o	ne) YES (NO)
PASS THE PAINT FILTER TE	ST? (Circle One)	YES NO			
331333333333333333333333333333333333333		TANK BOTTO	MS		
Fee	in in	ches	1111/		
st Gauge			85&V	//OBLS Received	BS&W (%)
nd Gauge Received				Free Water	
			······································	Total Received	
I hereby certify that the above load	material has been (circle one)	ACCEPTED DENIED	If denied, why?		And the second s
JU	10-A	(41)	/	In	
NAME (PRINT)	<u> </u>	ATE TITE	<u> </u>	$-\omega \nu$	
	-	TITE	•	- 3	PGNATURE

C-138

White - R360 ORIGINAL Yellow - TRANSPORTER COPY PINK - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#:

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

Hauler:

M MATA TRUCKING LLC ADRIAN

Driver AD
Truck # 12

Card # Job Ref # Ticket #:

700-905684

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

Generator:
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

20.00 yards

ontaminated Soil (RCRA Exempt)

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

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 188 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 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	

THIS IS NOT AN INVOICE!

pproved By:	Date:	

3UJ9A010G3S

6/25/2018 4 24 3



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

Configuration (Mag Cont	actunfor	mation
Name Chany t		sorvi	Stor

			4 		ſ	hone No.	
Operator No.			<u>GENI</u>	ERATOR Permit/RRC No.	N	^{o.} 310427	
	agriand		*************************************	rermit/RRC No. Lease/Well	NON	CONTR	
Operators Name VU	angue or		***************************************	Name & No.	PIDU	DML T	
Address		······································	- Address of the second	County			**************************************
City, State, Zip			1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	API No.	***************************************		
Phone No.	······································		***************************************	Rig Name & No.	***************************************	······	
11000,110.	F1/64 Abra = 8 - 11/11			AFE/PO No.	***		
Oll Based Muds	EXEMP) E&P Waste	2/Service Iden ON-INIECTABLE	tification and Amount	: (place volume next to v		r cubic yards)	
Oil Based Cuttings	W	/ashout Water (Non-Injectable)		INJECTABLE WATERS Washout Water (Inje-	table)	***************************************
Water Based Muds Water Based Cuttings	C	ompletion Fluid/	/Flow back (Non-Injectabl	le)	Completion Fluid/Flor	v back (Injectable)	
Produced Formation Solids	G	athering Line W	(Non-Injectable) <u>ater/</u> Waste (Non-Injectab	ole)	Produced Water (Inje Gathering Line Water		
Tank Bottoms E&P Contaminated Soil	- JA 1	TERNAL USE ON			OTHER EXEMPT WAST	ES (type and generation process	of the waste)
Gas Plant Waste		uck Washout (e	xempt waste)	<u></u>			
WASTE GENERATION PROCES	S: [] DI	RILLING	Сомг	PLETION []	PRODUCTION	GATHERING	LINES
	[na	NO	N-EXEMPT E&P Waste/Se	ervice Identification and Ame	ount		***************************************
Non-Exempt Other	rous-exempt E&P wast	e must be analy	sed and be below the thr	eshold limits for toxicity (TC			
				*please select fr	om Non-Exempt Waste	List on back	
QUANTITY			B - BARRELS	L-LIQUID		AROS	E - EACH
t hereby certify that according to t load is (Check the appropriate clas	te Resource Conservati Sification)	on and Recovery	y Act (RCRA) and the US E	nvironmental Protection Ag	ency's July 1988 regulate	ory determination, the above	described waste
RCRA EXEMPT:	Oil field wastes gener	ated from oil an	id gas exploration and pro	oduction operations and are	not mixed with non-eve	mpt waste (R360 Accepts cer	
	1000 00000 01117)						
RCRA NON-EXEMPT:	Oil field waste which i	s non-hazardou	s that does not exceed th	e minimum standards for w	aste hazardous by chara	deristics established in RCRA	regulations, 40 CFR
		-a liestridada iii	aste as defined by 40 CFR. Propriate items as provide	, Dart 201, Subbart D. At ami	ended. The following do	cumentation demonstrating t	he waste as non-
	MSDS Information	*******	RCRA Hazardous Waste Ai		Other (Provide Descript	inn Italawi	
	TITLE			, 4	- was the same processing	ion delow)	
EMERGENCY NON-OILFEILD:	Emergency non-hazra	dous, nan-oilfeii	id waste that has been or	dered by the Department of	Public Safety (the order	, documentation of non-haza	Edotte strate
	determination and a n	lesciption of the	waste must accompany i	this form)	,,		ruous waste
~ (PRINT) AUTHORIZED AGENT	NAME			DATE	*****	SIGNATURE	**************************************
ransporter's ho	6 A A T W		TRANSI	PORTER			and the second of the second o
Vame M	MANA	TTU	agins	Oriver's Name	And	vinn	***************************************
ddress		J	U	Print Name			·
***************************************				Phone No.	······································		**************************************
hone No.				Truck No.	······································	1	
hereby certify that the above nam	ed material(s) was/were	picked up at th	e Generator's site listed :	bove and delivered without	incident to the disposal	facility listed below.	
SHIPMENT DATE	***************************************			12-15	-18 X	Adres 6	
		ER'S SIGNATURE		OELIVEA	DATE	DRIVER'S SIGNATURE	
	VE STAMP	<u></u>	DISPOSAL	. FACILITY	R	ECEIVING AREA	
N:	OUT:				Name/No	. 579/8>	
ite Name/ ermit No. Halfway Facility /	NIM1 OGE			Phone No. ,			
.4.4	JS 62/180 Mile Marker	65.5-4-1-4-1-4	4 3 4 4 4	Priorie No.	75-193-1079		
					······································		***************************************
NORM READINGS TA PASS THE PAINT FILTER		YES	୍ 🕼		> 50 micro roentgens? (circle one) YES	
THE COLUMN THE CA	ESTY (CROSE ORE)	YES.	<u></u>	NO		****	
<u>-</u>		<u> </u>		DITOMS			
t Gauge	b. s.	I, R. i.e.,)	I GCB.U	V/B915 Received	·····	·
nd Gauge		*****		12341	Free Water	BS&W (%)	<u> </u>
celved		***************************************			Total Received		
I hereby certify that the above los	d material has been fri	gie one):/~	ACCEPTED DENI	FR 16 danta 1 at 2			
		local.	ACCEPTED DENI	If denied, why?		·····	··········
Name (Print)	Heren	DATE	10 2		<u> </u>		
. ,		UNIE		nriệ		SIGHATURE	
138 White - R36	OORIGINAL Val	low - TRANC	SPORTER COPY P	ink offsite in a com-			
		CMANT. ARC.	FOR FER CUPY P	ink - GENERATOR SITE	COPY Gold - RET	URN TO GENERATOR	Version 1

C.



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSON

AFE #; PO #:

Manifest #: 310399 Manif. Date: 6/25/2018

Hauler: Driver

M MATA TRUCKING LLC LALO 150

Truck # Card # Job Ref # Ticket #; Bld #;

700-905693 Walk-in Bid

Date: Generator:

6/25/2018 VANGUARD

Generator #:

Well Ser. #; 03849

Well Name: ABO SWD ROC Well #: 002

Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

icility: CRI

oduct / Service

Quantity Units

20.00 yards

ontaminated Soll (RCRA Exempt)

Cell pH Cl Cond. %Solids TDS PCI/GM MR/HR H2S % Oil Weight 16 Analysis: 50/51 0.00 0.00 0.00 0

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:

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 a tracteristics 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 ____ RCRA Hazardous Waste Analysis ____ Process Knowledge ____ Other (Provide description above)

iver/	Agent	Signature
-------	-------	-----------

R360 Representative Signature

stomer Approval

THIS IS NOT AN INVOICE

proved By:		
	'	Date:
	**************************************	Pale.

JJ9A010G4S

6/25/2016 ₹ €



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

Company Man Contact Information
Name CHUCK JOHNSTON

Contract Name Annual Part County Annual Part	Coperation Name Andress Consty Apt No.					Phone No.	
Permitting No. Inc. States 200. Inc. States 20	Center Name Address Centary APTRO City, State, 7p But Stand & No. APTRO Completion Fluid/Flow back [post-rolled] Comple			GEN	IERATOR	No. 310 a	∤ 99
County C	Lease Avail Art Book South Pool Art Book South Pool Art Book Ar	Operator No.		**************************************	Permit/RRC No.	2100	, , ,
AND PARTIES AND PROCESS DESCRIPTION OF CONTROL PROCESS DESCRIP	Originates in the second of th	i }					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
And States	And the control of th	Iperators Name VOV	-91000 CL	100 mien		- ATBO SOUR PA	20, 000
APPROVED TO STATE OF THE NAME	County API No Big Name & No. Big Nam	Address	•				
TRANSPORT EAP Waster/Service Identification and Amount (place volume next to waste type in barrels or cubic yeards) Dispared Contings Waster Based Much Dispared Contings Waster Based Much Dispared Contings Waster Based Much Complete Transport Based Much All structures Complete Transport Based Much All structures Transport Based Much All structures	City, State, 279 Rig Yame & No. AFFORD No. DESIGNED MICH. EXEMPT E&P Waster/Service Identification and Amount (place volume neet to waste type in barrels or cubic yards) DI Stand Custing Washer Stand Custing Completion Place/Flein waster (Non-injectable) Fronked Variant Standard Custing Proceed Variant Standard Custing Proceded Variant Standard (Non-injectable) Fronked Variant Standard Custing Fronked Variant Standard Custing Fronked Variant Standard (Non-injectable) Salt Place Waster (Non-injectable) Salt Place Waster (Non-injectable) Salt Place Waster (Non-injectable) Fronked Variant Standard (Non-i				County	***************************************	***************************************
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SIGNATURE	NAIT THE	NAME (PAINT)		DATE	TITLE	7,7	***************************************
					****	PENATURE	



Facility: CRI

Customer:	VANGUARD	PERMIAN
Customer #:	CRI5830	

39

Ordered by: CHUCK JOHNSON

AFE #: PO #:

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

Hauler: Driver Truck # M MATA TRUCKING LLC JUAN

Card# Job Ref# Ticket #: 700-905694 Bid #: Walk-in Bid Date: 6/25/2018 Generator: **VANGUARD**

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

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
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R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date	
11:	Date:	

t6UJ9A010G4U



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

Company Map Contact Information Name NUCL DINGS	1
none Na,	7

						Phone No	
			GE	NERATOR		J NO. 3104:	13
Operator No.				Permit/R		Ann	
Operators Name	CAllari	71		Lease/W Name &		AHOUS SIND AFT	\mathcal{L}
Address	0	<u> </u>	,,,,,	County	10,		
/haq(G23	***************************************			API No.			,,,,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
City Seate 7in	,	***************************************	***************************************	Rig Name	0 No		
City, State, Zip				AFE/PO I			
Phone No.						A-14-14-14-14-14-14-14-14-14-14-14-14-14-	
	EMPT E&P Wa			ount (place volume n	xt to v	vaste type in barrels or cubic yards)	
Oil Based Muds Oil Based Cuttings	,,,	NON-INJECTABLE Washout Water		-,,		INJECTABLE WATERS Washout Water (Injectable)	
Water Based Muds	***************************************		/Flow back (Non-Inje	ectable)		Completion Fluid/Flow back (Injectable)	***************************************
Water Based Cuttings		Produced Water				Produced Water (Injectable)	***************************************
Produced Formation Solids Tank Bottoms	_	INTERNAL USE O	/ater/Waste (Non-Inj NLY	ectable)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gathering Line Water/Waste (injectable) OTHER EXEMPT WASTES (type and generation)	process of the waste)
E&P Contaminated Soil	20	Truck Washout (.,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Gas Plant Waste		L	et et et		***************************************	<u> </u>	
WASTE GENERATION PROCESS:		DRILLING		OMPLETION		PRODUCTION GATHE	ERING LINES
				ste/Service Identification			
	n-exempt E&P v	raste must be anal	ysed and be below th		,	LP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other				*pléase	seiect fr	om Non-Exempt Waste List on back	
QUANTITY			B - BARRELS	L - LIQUII)	Y - YARDS	E - EACH
	ledelikon Čosto	mails and Barrie	at Act IOCRA) and the	a LIC Covice property Dest	etian A	gency's July 1988 regulatory determination, the	e ahove described waste
2 b	61,21-261,24, or azardous is acta ISOS Informatio mergency non-h	listed hazardous viched. (Check the ap n azradous, non-oilf	waste as defined by 4 opropriate items as p RCRA Hazardous Wi	IO CFR, part 261, subpart provided) aste Analysis een ordered by the Depa	D, as an	vaste hazardous by characteristics established nended. The following documentation demons Other (Provide Description Below) Fublic Safety (the order, documentation of n	trating the waste as non-
(PRINT) AUTHORIZED AGENTS N		, 		DATE		\$IGNATURE	
(PAIN) AD MARKED ACTION IS			TDA	NSPORTER		1	
Transporter's (A)	N. A					L fire	***************************************
Name //	NATH	Truc	king	Driver's I	am a	Man	
Address				Print Nan	ie	- 00 .	
				Phone No		-20	
Phone No.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Truck No		54 1	`
I hereby certify that the above named	material(s) was	/were picked up at	the Generator's site	listed above and delivers	d witho	ut incident to the disposal facility listed below.	·
				/s-	1	18 (V	
SHIPMENT DATE		DRIVER'S SIGNATURE		•	DEUV	ERY DATE DRIVER'S	SIGNATURE
TRUCK TIM	E STAMP		DISPO	SAL FACILIT	1	RECEIVING A	REA
IN:	OUT:					Name/No. 50)	<i>'5</i> 7
Site Name/			1				
Permit No. Halfway Facility / N	M1-006	**************************************		Phone No	١.	575-393-1079	
Address 6601 Hobbs Hwy U	62/180 Mile M	arker 66 Carlsbad,	NM 88220				
NORM READINGS TAK	EN? (Circle One)	YES	NOS.	If YES, v	as read	ing > 50 micro roentgens? (circle one)	YES NO
PASS THE PAINT FILTER TO	•		E 7	NO			
				KBOTTOMS			
ŕec	· ·	lise	.nes		·····	L.,	
1st Gauge	***************************************				BS	&W/8JLS Received BS&	.W (%)
2nd Gauge						Free Water	
Received		L			**********	Total Received	
I hereby certify that the above load	d sed (elspicm l	en (chile mei:	ACCEPTED	DENIED If deni	ed, why	7	gal (s, to Agrid) you all manages area forecasting the first (specific street).
t thereby corony that the above tog	,everiaritas Di	.cin concentration.		Ti delli	: 1411 y	·	***************************************
		W 15	ATE	nare.	*******	SIGNATURE	\$\$\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
HAME (PRINT)		0	ATE	TEFLE		HATANAN	

C-138

White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

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

Hauler:

M MATA TRUCKING LLC

Driver ADRIAN Truck # 12

Card # Job Ref# Ticket #: Bid #:

700-905696 Walk-in Bid 6/25/2018 VANGUARD

Generator: Generator #:

Date:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well#:

002

Field:

Field #: Rig:

County

NON-DRILLING 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
Million and the state of the st	
ustomer Approval	

THIS IS NOT AN INVOICE!

pproved By:	Date:	
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3UJ9A010G4Y

6/25/2018 shall



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

						Phone No.	
			<u>GEN</u>	ERATOR		NO. 3104	412
Operator No.				Permit/R		OLO	7 .d. d.,
Operators Name	nguly	d		Lease/W		ABO SWN	ログ
Address	7			Name &	No.	1110 2017	T U
Address		······································	****	County			***************************************
P				API No.		***************************************	
City, State, Zip			***************************************	Rig Name	e & No.	······································	
Phone No.	 		+	AFE/PO N	No.		
	EXEMPT E&P Wa	iste/Service Ideni	tification and Amour	t (place volume ne	ext to was	te type in barrels or cubic yards)	
chi pazed Midd2		NON-INJECTABLE	WATERS			NJECTABLE WATERS	
Oil Based Cuttings Water Based Muds	***************************************	Washout Water (1		***************************************		Vashout Water (Injectable)	
Water Based Cuttings		Completion Fluid/ Produced Water (I	Flow back (Non-Injectat Non-Injectable)	ble)		Completion Fluid/Flow back (Injectable)	1-Milliand publication of the second
Produced Formation Sollds	·	Gathering Line Wa	ater/Waste (Non-Injecta	ıble)		roduced Water (Injectable) jathering Line Water/Waste (Injectable	1
Tank Bottoms E&P Contaminated Soil	777	INTERNAL USE ON	IĻŸ		Ö	THER EXEMPT WASTES (type and generate	/ Jan process of the waste)
Gas Plant Waste		Truck Washout (ex	kempt waste)	******			
WASTE GENERATION PROCESS	i: []	DRILLING	[] cow	PLETION		2001/2101	
					***************************************		THERING LINES
All	пол-exempt E&P w	NOT aste must be analys	N-EXEMPT E&P Waste/S sed and be below the th	ervice identification a reshold limits for toxi	and Amoun	t Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other		***************************************					
				piease s	seiget J10Mi	Non-Exempt Waste List on back	
QUANTITY			8 - BARRELS	L - LIQUID		Y - YARDS	E - EACH
I hereby certify that according to th	e Resource Conserv	ation and Recovery	/ Act (RCRA) and the US	Environmental Protec	ction Agenc	y's July 1988 regulatory determination,	the above described waste
load is (Check the appropriate class							
RCRA EXEMPT:	Oil field wastes ge	nerated from oil and	d gas exploration and pr	aduction operations	and are not	mixed with non-exempt waste (R360 A	Accepts certifications on a ner
RCRA NON-EXEMPT:	Oil field waste whi	ch is non-hazardous	s that does not exceed t	he minimum standard	ds for waste	hazardous by characteristics established	ed in RCRA regulations, 40 CFR
		110501 5002 110	iste as defined by 40 CFI Propriate items as provid	r, part 201. Suppart D), as amend	ed. The following documentation demo	instrating the waste as non-
	MSDS Information	rear ferrees the app	andrivare sterning an brown	120)	-		
ليا	House turning each		ICRA Hazardous Waste A	Analysis	L Ot	her (Pravide Description Below)	
	_	***************************************	····				
EMERGENCY NON-DILFEILD:	Emergency non-ha	zradous, non-oilfeile	d waste that has been o	rdered by the Depart	ment of Pui	olic Safety (the order, documentation o	f non-hazardous waste
	paterinination and	a desciption of the	waste must accompany	this form)		A. (
(PRINT) AUTHORIZED AGENTS	HAME	HCallladinjaya;; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	***************************************	DATE	······································	Hayres b	
			TD			SIGNATURE	
Transporter's	18.8		IKANS	PORTER		^	
Name	mata	Truck	11540	Oriver's Na	me	Avior	· · · · · · · · · · · · · · · · · · ·
Address		1103/				· jarian	***************************************
***************************************		······································		Print Name	*		
Phone No.			·	Phone No.		10	
	······································		***************************************	Truck No.		•	
I hereby certify that the above name	d material(s) was/w	ere picked up at the	e Generator's site listed	above and delivered	without inc	ident to the disposal facility listed below	u
	***************************************					,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
SHIPMENT DAYE		DRIVER'S SIGNATURE			OELIVERY DAT	E DRIVER	S SIGNATURE
TRUCK TIN	1E STAMP		DISPOSA	L FACILITY		RECEIVING A	DEA
IN:	OUT:	ļ					27
Site Name/	***************************************				L	Name/No. (SD))[
Permit No. Halfway Facility / N	M1-005			Phone No.		***	
Address 6601 Hobbs Hwy U	S 62/180 Mile Mark	or 55 Carlebad, NA	- GB 5-70		3/3	393-1079	······································
		7	00220				······
NORM READINGS TAI		YES /	\	If YES, was	reading > 5	O micro roentgens? (circle one)	YES COO
PASS THE PAINT FILTER T	iST? (Circle Dne)	YES		NO			
		7	TANK BO	OTTOMS			The state of the s
For		Inclus		***************************************			
Ist Gauge					BS&W/BI	BLS Received BS8	(W (%)
Received						Free Water	
	<u></u>		***************************************	<u></u>	To	tal Received	
I hereby certify that the above loa	l material has been	(circloone):	ACCEPTED DEN	ICD ELL			
1 1/1	, 7 5,44]	Ti-ne	216	IED if denied,	wny?		
HAME (PRINT)		U o) 10 (
(arout faith!)		DATE		711LE		3/RUTAHDIZ	***************************************
-138 White Basi							
-130 White - R360	ORIGINAL Y	ellow - TRANSI	PORTER COPY F	ink - GENERATO	R SITE CO	DPY Gold - RETURN TO GENE	RATOR Version 1



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: AMBER GROVE

38

AFE#: PO#:

Manifest #: 313324 Manif. Date: 6/25/2018

Hauler Driver

M MATA TRUCKING LLC SAUL

Truck #

Card# Job Ref# Ticket #: Bld #:

700-905701 Walk-in Bid 6/25/2018

VANGUARD

Date: Generator:

Generator #: Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Hioduct//Service Cuantity Unite

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Ηα 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)

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ь	781		O 1 /	7.5	LI C		LINE			FF).

nature R360 Representative Signature

Customer Approval 1

THIS IS NOT AN INVOICE!

Approved By: Date:

SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Plains Marketing, LP SO5 Big Spring Suite 600, Midland, TX, 79701	Site: Mewbourne Forty Niner Ridge Unit 103H Legals: UL "O" Sec. 22, T235, R30E Location: Eddy Co, NM API: SRS No. 2018-078
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 000000000000000000000000000000000000	
FACILITY CONTACT: Amber Groves Plains Marketing, LP 1911 Connie Road, Carlsbad, NM 88220	Signature MW (1704) Date: 4 3 24 20/8

TRANSPORTER'S MANIFEST

DISPOSAL SITE:

Lea Land, Inc. NMOCD Permit #NM-01-035

Mile Marker 64, 62/180, Carlsbad, NM 88220

1-12-18 le 25-18

Name: Hector B

Signature: 2148

Oate: 6-27-18

Direct Bill: Plains Marketing, LP Care Of: Amuel Groves

Released to Imaging: 4/14/2023 3:35:16 PM



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

c	omplany Man	Contact	Information
Name	Chick	Dola	mstun 💮

	**************************************	****					Phone No.		
Haracon and Colombia Colombia				CIENIERAN	OR		NO. 21	1604	
Operator No.			**************************************		Permit/RRC No.	il .	31	1004	
4, 3, 4, 4, 1, 5,	1				Lease/Well	ARA	CIJD H	7	***************************************
Operators Name		juurd_	*************************************		Name & No.	MO	JWD 41	<u> </u>	
Address	***************************************	/			County	***************************************			***************************************
***************************************	······································				API No.	AIRAI	<u> </u>	······································	
City, State, Zip	***************************************				Rig Namo & No.	NON	יייזט -		······································
Phone No.	***************************************	*******************	***************************************		AFE/PO No.	***************************************	***************************************	······	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Oil Based Cuttin Water Based M			Washout Water (Non-Injectable Completion Fluid/Flow back (No.		***************************************	Washout Water		.\.{.\	
Water Based Co		***************************************	Produced Water (Non-Injectable		74554-14555444-144444444444444444	Produced Water	/Flow back (Injecta (Injectable)	iole)	
Produced Form	nation Sollds		Gathering Line Water/Waste (No	n-injectable)		Gathering Line W	ater/Waste (Inject		
Tank Bottoms E&P Contamina	ated Soil	70-	INTERNAL USE ONLY Truck Washout (exempt waste)			CONCREMENT	ASSESS EXPANDED	reretten process el de	(vaste)
Gas Plant Wast	•		Track washoot levelish wastel		3////	Gellu	W		
WASTE GENE	RATION PROCESS:		DRILLING	COMPLETION		PRODUCTION	(*****	GATHERING LINE	S
***************			Electric and the Manager Property	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ntification and Amo				
	All no	n-exempt E&P v	aste must be analysed and be bel	ow the threshold if	nits for toxicity (TG)	um. Platenitability, Cor	osivity and Reacti	vity.	
Non-Exempt Otl						m Non-Exempt W			
CONTRACTOR									
QUANTITY			B - BARNELS		L-LIQUID	\	Y YARDS	E	~ EACH
I hereby certify i	that according to the l	Resource Conser	ation and Recovery Act (RCRA) at	rd the US Environm	ental Protection Age	ency's July 1988 rej	unatory determina	tion, the above desc	ribed waste
	ne appropriate classific								
TE RCRAEN			nerated from oil and gas explorar	ion and production	operations and are	not mixed with nor	n-exempt waste (R	360 Accepts certifica	itions on a per
		aad basis only)							
RCRAN	ON-EXEMPT: C	III Keld waste wh	ich is non-hazardous that does no	t exceed the minim	um standards for wa	iste hazardous by o	haracteristics esta	blished in RCRA regu	ilations, 40 CFR
			listed hazardous waste as defined hed. (Check the appropriate items		1, subpart U, as ame	inded. The tollowin	g cocumentation (tempostrating the w	aste as non-
	p	ASDS Information	p	us Waste Analysis	()	Other (Provide De	cerintina Rainwi		
	" لنجا				<u></u> ,	onies (crosses or	atription below:		
N	e	**************************************	Carada, a cara allested consec these t			ri. Ella Pataan taku			
EMERGER	MET MUNYCHER BUT		izradous, non-gifeild waste that f I a desciption of the waste must a			Public Salety (the	order, documentar	ion of hun-hazardor	12 AND 21G
- Chuc	4 Julneti	ועני			,				
IPR	UNT) AUTHORIZED AGENTS N	ME		***************************************	DATE		SIGHA	TURE	
			· 原語 为"张兴 州"	RODRINAS					
Transporter's	AT		[MANAGES]	muser wit			±	and the second s	illiplipiellalaeealaeeaaaeeeijilii
Name	M Make	1 Icus	Kim		Driver's Name 🍜	Sal	Man	me luce	
Address					Print Name				
					Phone No.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Phone No.		***************************************		·····	Truck No. 💊	38	***************************************	······································	
I hereby certify t	that the above named	material(s) was/	were picked up at the Generator's	site listed above a	nd delivered without	tincident to the dis	nosal facility listed	below.	***************************************
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-6-25-18		9	11. (
SHPA	MENT DATE	a	DRIVER'S SIGNATURE		DELIVER			DRIVER'S SIGNATURE	
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······································		JUI:				ivarne	:/No.50/5/		
Site Name/	Halfway Facility / N	wi.nas			Phone No.	575-393-1079			
Parmit No. Address	***************************************	**************	alone C.C. Consists and State States	****	•	210-221-0012		***************************************	·/···
		********************	rker 66 Carisbad, NM 88220	······································	k.##.				4
	NORM READINGS TAKI		YES C			g > 50 micro roentį	gens? (circle ane)	YES	A o
PASS	S THE PAINT FILTER TE	5T? (Circle One)	G.	· ·	NO				
					MAS .				
	Feel		inches					***************************************	***
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2nd Gauge Received	***************************************	·····	***************************************	-		Free Water Total Received			ļ
1142741440	L				L	TOTAL NECESTRAL	L		
i hereby certi	ify that the above load	material has be	en (circle ane): ACCEPTED	DENIED	If denied, why?				
A	1 444		B- TS-18	Λl		<u> </u>			
-1/3/MHZ	L VV	************************	UZ LO TIO	MAN	Mi		96/43	elor	····
•	******* \$1,2671 \$2.5		VAL.				34 (44) 46	NY COMP	

C-138

White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Customer: MEWBOURNE OIL CO

Customer #: CRI4110

Ordered by: AMBER GROVE

AFE #: PO#:

Manifest #: NA

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

Driver Truck #

HECTOR 30

Card# Job Ref# Ticket #: Bid #:

700-905826 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

EDDY (NM)

Facility: CRI

Product Service Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Lab Analysis: 50/51

Cell PΗ 0.00

CI. 0.00

Cond. 0.00

%Solids

TDS PCI/GM MR/HR

H₂S

% 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:

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 Signature R360 Representative Signature

CustomerApproval

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010GIM

6/26/2018 E.C.

TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS

LOCATION OF MATERIAL:

Plains Marketing, LP

505 Big Spring Suite 600, Midland, TX, 79701

Mewbourne Forty Niner Ridge Unit 103H

UL "O" Sec. 22, T235, R30E Legals:

Location: Eddy Co, NM SRS No. 2018-078

TRANSPORTERS NAME AND ADDRESS:

M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

#TRUCK 1295

FACILITY CONTACT:

Amber Groves Plains Marketing, LP

1911 Connie Road, Carlsbad, NM 88220

Date:

NAME OF TRANSPORTER; (DRIVER)

DISPOSAL SITE:

Lea Land, Inc. NMOCD Permit #NM-01-035

Mile Marker 64, 62/180, Carlsbad, NM 88220

<u>v. L) anzalz</u> & W

Direct Bill: Plains Marketing, LP

Care OL Amber Grover



MEWBOURNE OIL CO Customer:

Customer#: CRI4110

Ordered by: AMBER GROVE

AFE #: PO#:

Manifest #: NA

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

Hauler: Driver Truck #

ANGEL 1295

Card# Job Ref# Ticket #: Bid #:

700-905827 O6UJ9A000BEJ

Date:

6/26/2018 Generator: MEWBOURNE OIL CO

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 yards

Cell Lab Analysis: 50/51

ÞΗ Ci 0.00 0.00

%Solids Cond. 0.00

TDS PGI/GM MR/HR

H2S

% 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:

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

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010GIR

6/26/2018 8 1 1 1



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK VANGUARD

HECTOR

AFE #: PO#:

Manifest#: NA

Manif, Date: 6/26/2018 Hauler:

M MATA TRUCKING LLC

Driver

Job Ref#

Truck # Card#

Ticket #: 700~905898 Bid #: Walk-in Bid Date: 6/26/2018 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

CI 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

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)

Driver/ Agent Signature

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

16UJ9A010GT4

6/26/2018 15 5 1 1

TRANS	PORTER'S IV	TANIFEST
SHIPPERS FACILITY NAME AND ADDRESS: Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762 TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 80X 1263, Hobbs, NM, 88241 DESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 20 X 4		LOCATION OF MATERIAL: Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, R36E Location: Lea Co, NM API: 30-D25-03849
FACILITY CONTACT: Chuck Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: CALJAA Date: 6-30-18
NAME OF TRANSPORTER: IDRIVERY M. Mata Trucking Truck # 10. 30		Name: Adv. Can 6 Pate: 6-21-18
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: Market Date: W2115
	Direct Bill: Care Of;	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

ANGEL

1295

AFE #: PO #:

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

Hauler: Driver

Truck #

Card# Job Ref#

Ticket #: Bid #:

700-905900 Walk-in Bid

Date: Generator:

6/26/2018 VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#: Field:

Field #:

Ria:

NON-DRILLING

County

LEA (NM)

Facility: CRI

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

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)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: Date:

#GUJ9A010GTD

8/26/2017 11

TRANSF	ORTER'S	MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS: Vanguard Operating, LLC 4001 Panbrook, 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 SOIL VOLUME: 20 X 4		:
FACILITY CONTACT: Chick Johns for Kyle Zinunerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature:
Mame OF TRANSPORTER: (DRIVER) M. Mota Trucking Truck # 10-1295		Name: Add Soros Signature: Aalo Coros Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241		Signature: A Market
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



³ermian Basin

Customer: VANGUARD PERMIAN Customer #: CRI5830

HECTOR

Ordered by: CHUCK JOHNSTON

AFE#:

Manifest #: NA Manif. Date: 6/2

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

Driver Truck #

Card # Job Ref #

700-905968 Walk-in Bid 6/26/2018

Date: 6/26/2018 Generator: VANGUARD

Generator #:

Ticket #:

Bid #:

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 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)

Priver/	Agent	Signature	
	,	_	

Sustance Approval

R360 Representative Signature

Sustomer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date:	

t6UJ9A010GYO

6/26/2011

TRANSPORTER'S MANIFE	FST	4
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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:

E&P EXEMPT IMPACTED SOIL

VOLUME: 26

EACILITY CONTACT: Check Johnston Kyle Zimmermon Vanguard Operating, LLC

Signature:

Date:

6-30-12

NAME OF TRANSPORTER: (DRIVER)

4001 Penbrook, Suite 201, Odessa, TX 79762

M. Mata Trucking

Truck # 10. 30

Name:

= Hurian

Date: 6-21-18

DISPOSAL SITE: R360 Halfway Facility

4507 W Carlsbad Hwy

PO Box 388

Hobbs, NM 88241

Signature;

Nata

Direct Bill: Vanguard Operating, LLC

Care Of: Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CR[5830

Ordered by: CHUCK JOHNSTON

ANGEL

1295

AFE#: PO#:

Manifest #: NA

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

Hauler: Driver

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

700-905970 Walk-in Bid

Date: 6/26/2018 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

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell 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

THIS IS NOT AN INVOICE!

Approved By: Date:

t6UJ9A010GYQ

6/26/2019 2 5.11

TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:	

LOCATION OF MATERIAL:

Vanguard Operating, LLC

4001 Penbrook, Suite 201, Odessa, TX 79762

Site: A80 SWD #2

Legals: UL "C", Sec. 2, T175, R36E

Location: 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:

Check Johnston

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

Date:

NAME OF TRANSPORTER: (DRIVER)

M. Mata Tracking

Truck # 1295

DISPOSAL SITE: R360 Halfway Facility

4507 W Carlsbad Hwy PO Box 388

Hobbs, NM 88241

Date:

Direct Bill: Vanguard Operating, LLC Care Of: 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:	Katie Lowe Many Moah Kelsey Brooks	Date: 07/18/2018 Date: 07/19/2018



Customer:

VANGUARD PERMIAN

Ticket #:

700-906233

CRI5830 Customer#:

Bid #: Date:

Walk-in Bid

CHUCK JOHNSTON Ordered by: AFE#:

Generator:

6/27/2018 **VANGUARD**

PO #:

313324

Well Ser. #:

Generator #: 03849

Manifest #:

Manif. Date:

6/25/2018

Well Name: Well#:

ABO SWD ROC

Hauler: Driver Truck #

Job Ref#

M MATA TRUCKING LLC HECTOR B

Field:

Field #:

NON-DRILLING

Card#

Rig; County

LEA (NM)

Facility: CRI

Broduct / Servi	ce.					Ģ.	uantity Lin	þ				数一分条
Contaminated :							20.00 yard					
	Cell	pН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Lab Analysis	50/51	0.00	0.00	U UU	Λ						•	•

Generator Gertification 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-bazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

LINVEN Agent Signature	R360 Representative Sig	nature +2+	
customer Approval 144-12-11-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
			ing a resident to the Baseline of the

THIS IS NOT AN INVOICE!

Approved By:	Date:	
	 Date.	



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

Onuok	うってんからい
	Man Contact Information
Name	AL CHARON

saturates 🗸			·		Phone No.	
	78178	,	GENERATO	OR	No. 31332	24
derator No.		,,		Permit/RRC No.		
perators Name Ur	in quard			Lease/Weil	Forty Amer Awar	111211
dress	7			Name & No.	101 1011 10 Novyc	2001
11 653				County	THEO DIMED	<u> </u>
				API Na,	416.	
, State, Zip				Rig Name & No.	NON- Drilling	
one No			·	AFE/PO No.		
	EXEMPT 68 P W	aste/Service iden	rification and Ameliot (olace w	sluma navi ta	vaste type in barrels or cubic yards)	
l Based Muds		NON-INJECTABLE	WATERS	nume next to v	INJECTABLE WATERS	The contract of the contract o
i Based Cuttings		Washout Water (I			Washoul Water (injectable)	
ater Based Muds			Flow back (Non-Injectable)		Completion Fluid/Flow back (injectable)	,
ater Based Cuttings aduced Formation Solids		Produced Water (Produced Water (Injectable)	······································
ink Bottoms		INTERNAL USE ON	ater/Waste (Non-Injectable)		Gathering Line Water/Waste (Injectable)	de la companya de la
P Contaminated Sail		Truck Washout (2			OTHER EXEMPT WASTES (type and generation pro	ocess of the waste)
as Plant Waste						
ASTE GENERATION PROC	ESS:	DRILLING	COMPLETION		PRODUCTION GATHER	ING LINES
	All 150 6	NO	N-EXEMPT E&P Waste/Service Ident	tification and Amo	zunt	
LEvernt Other	All non-exempt E&P	waste must be analy	sed and be below the threshold limi		LP), (gnitability, Corrosivity and Reactivity.	
n-Exempt Other				*please select fr	om Non-Exempt Waste List on back	
ANTITY			B - BARRELS	L- HOUR	(34)	
				L-LIQUID	20 Y-YARDS	E - EACH
reby certify that according t I is (Check the appropriate o	o the Resource Conser	ryation and Recovery	/ Act (ACRA) and the US Environmen	ntal Protection Ag	ency's July 1988 regulatory determination, the a	bove described was
in (order the appropriate t	•					
RCRA EXEMPT;	Oli field wastes g	enerated from oil an	d gas exploration and production of	perations and are	not mixed with non-exempt waste (RB60 Accept	ts certifications on a
	loud basis only)				•	
ACRA NON-EXEMPT:	Oli field waste wi	nich is non-hazardou	s that does not exceed the minimum	n standarde for w	aste hazardous by characteristics established in I	
	261.21-261.24, ar	r listed hazardous wa	aste as riefinad by 40 CER mart 261	Fubrication of a second	ended. The following documentation demonstrat	KCRA regulations, 4
	hazardous is attar	ched. (Check the apr	propriate items as provided)	adopar a D, as arre	ended. The ronowing documentation demonstrat	ting the waste as no
	MSDS Informatio		ICRA Hazardous Waste Analysis	1	au to a constant	
		" LJ '	ICHA HIZZI GOGS WASTE ANALYSIS		Other (Provide Description Below)	
	 	de della del				
EMERGENCY NON-DILFE	LD: Emergency non-h	azradous, non-olifei	ld waste that has been ordered by t	he Department of	Public Safety (the order, documentation of non-	-hazardous waste
Aulanda	determination an	d a desciption of the	waste must accompany this form)			
AS DESIROHTUA (TRIBO)	FINTS NAME					
			DA		SIGNATURE	
			TRANSPORT	'ER		·
nsporter's	Mala Tr	uching		river's Namel	11 / 0	
	VICULUL /F	(ACMIN'S		mversnamer− Æ	dector D	
				rint Name		-
				hone Na.		
ne No.		Alles .		ruck No. 🦠	3	
rehvicertify that the shows				TUCK NO.	30	
reby certify that the above n	amed material(s) was/	Were picked up at th	e Generator's site listed above and	delivered without	incident to the disposal facility littles below.	
				16-75-1	8 2110	
SHIPMENT DATE		ORIVER'S SIGNATURE		DELIVER	ORIVER'S SIGN	ATURE
TRUCK	TIME STAMP	T	DISPOSAL FACI	IIIV	RECEIVING ARE	Λ
	OUT:	 -	2.0. 00/4 170	1111		A
111111111111111111111111111111111111111				ĺ	Name/No. § 0/ § /	
Name/			a.	-		
nit No. <u>Halfway Facill</u>	· · · · · · · · · · · · · · · · · · ·	···		une No.	575-393-1079	
ress 6601 Hobbs H	wy US 62/180 Mile Ma	irker 66 Carlsbad, NN	4 8B220		1111	
NORM READING	TAKEN? (Circle One)	YES C	Q ₀	C1477		71.
PASS THE PAINT FILT		1 1	t e e e e e e e e e e e e e e e e e e e		2 > 50 micro roentgens? (circle one) YES	منتها
PAGO MICEANAT FILE	an rearr (circle one)	₩	NO			
			TANK BOTTO	VIS I		.
<u> </u>	fuct	lactie				
iauge				ASRV	V/BBLS Received BS&W/ (%	71
Gauge					Free Water BS&W (9	G!
elved				Mercialitaça II.dea	Total Received	
						,
hereby confify that the above	load material has bee	ırı (circle one):	ACCEPTED DENIED	If dented, why?	_ ^	
hereby confify that the above	load material has bee			If denled, why?	-1.	· · · · · · · · · · · · · · · · · · ·
Ange M	load material has bee	6-25-1	8 Admin	If denled, why?	b	Military v
Angel M	load material has bee			If denled, why?	SIGNATURE	Makana ()
Haye M	TOTAL PROPERTY.	0-ZS-1	8 Admin	If denled, why?	SIGNATURE	
Hnyel M	e load material has bee	6-25-1	8 Admin	If denled, why?		on Version

TRANSPO	RTER'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, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241	
OESCRIPTION OF WASTE: E&P EXEMPT IMPACTED SOIL VOLUME: 20 X	
FACILITY CONTACT: Chuck Tohnston Kyle Financinon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CALSA4 Date: 6-30-18
M. Mata Truking Truck # 100 30	Name: ATO. SP Signature: 1850, OPEN Date: 6-25-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: 1 25
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman



Customer: Customer#:

Ordered by:

VANGUARD PERMIAN

CRI5830

CHUCK JOHNSTON

AFE #: PO #:

Manifest#:

NA

Manif. Date: 7/2/2018
Hauler: M MATA TRUCKING LLC

Hauler: Driver Truck #

HECTOR 150

Card # Job Ref # AN

Ticket#:

700-907882

Bid #; Date: Walk-in Bid

Generator.

7/2/2018 VANGUARD

Generator #:

Well Ser. #: 03849

Well Name:

ABO SWD ROC 002

Well #:

Field:

Field #: Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

Product/, Servi	ce in the	1			AMANA MANAGARAN Managaran	<i>" ?</i> ' o	lantity Uni				
Contaminated 5	Soil (RCRA	Exempt)					20.00 yard	ls		- and distribution the Parish	, etamoria interessa per emergencia da natura (in establica de la compansión de la compansión de la compansión
	Cell	РН	CI	Cond.	%Solids_	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						- Galage
Generator Cent I hereby certify th 1988 regulatory d X RCRA Exem RCRA Non-E characteristics est amended. The for MSDS Inforn Driver Agent S	at according etermination of: Oil Field Exempt: Oil ablished in Illowing documention	g to the Reson, the above wastes gene field waste vacCRA regulation i RCRA Haza	described varated from which is not attached to a sattached tardous Was	ervation and waste is: oil and gas en-hazardous CFR 261.21-2 to demonstrate Analysis	Recovery Act (exploration and that does not ex 261,24 or listed to the above-de Process Kr	RCRA) and production ceed the m hazardous scribed was nowledge	d the US Environments and continuum standa waste as defin ste is non-haza Other (Pro	onmental Prot I are not mixed ords for waste I ed in 40 CFR, rdous. (Check vide description	I with non-enazardous by part 261, subthe appropriation above)	xempt waste	
Customer Appr	oval 🖘			yez e venezo	enter of National State						
				THIS	IS NOT	AN IN	VOICE!				
Approved By:		<u> </u>	10.4			Da	te:	THE WATER	***		

TRANSPORTE	R'S MANI	FEST
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 70		
VOLUME:		
FACILITY CONTACT: Chusk Johns ton Kyle Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Ollfold Date: 7-03-18
NAME OF TRANSPORTER: (DRIVER)		TV+ 150 Name: <u>Hcctor</u> B Signature: <u>71 f B</u> Date: T-02 - 18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: TMarinue Date: 7/2/18
		Vanguard Operating, LLC Kyle Zimmerman



Customer: Customer#:

Ordered by:

VANGUARD PERMIAN

700-907923

CRI5830

Ticket #: Bid#: Date:

Walk-in Bid 7/2/2018

CHUCK JOHNSTON

Generator: Generator #: VANGUARD

AFE #: PO#: Manifest #;

NA 7/2/2018

150

Well Ser. #: Well Name:

03849 ABO SWD ROC

Manif. Date: Hauler:

Driver

Truck #

Card #

Job Ref#

M MATA TRUCKING LLC HECTOR

Well#: Field:

Field #: Rig:

NON-DRILLING

County

LEA (NM)

002

Facility: CRI

Praduct/Servi			Anna de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición dela composición de la composición dela composición del			وً. ي	vantity - Uni	Single			
Contaminated S	3oil (RCR	A Exempt)				20.00 yard	ls			
	Cell	pН	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0,00	0.00	0,00	0						
Generator Certi I hereby certify th 1988 regulatory d X RCRA Exem _ RCRA Non-E characteristics est amended. The fol _ MSDS Inforn	at according at according the original at the	ng to the Re on, the above d wastes ge I field waste RCRA reg cumentation RCRA Ha	source Conso we described where the which is no ulations, 40 (an is attached uzardous Was	ervation and waste is: coil and gas con-hazardous CFR 261,21- to demonstra ste Analysis	exploration and that does not ex 261.24 or listed te the above-de Process Ki	production sceed the n hazardous escribed wa nowledge	a operations and ninimum stands waste as defin ste is non-haza Other (Pro	d are not mixe ards for waste ed in 40 CFR, rdous. (Check ovide descripti	d with non-e hazardous by part 261, su the appropri on above)	xempt waste y bpart D, as	÷.
Driver/Agent S	gnature		e te juli e zamer egenti.	Commission of the Commission o	R360 R	epresente	ıtive Signatuı	e 2002	ar Maria di Paris di Paris Internationale di Paris	ener (1	d in the tide of the second of
Gustomer Appr	oval			THIS	IS NOT	And the second of the second o	VOICE!				
Approved By:						Đa	nte:				

t6UJ9A010M2D

TRANSPO	RTER'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, 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 70	
VOLUME:	
FACILITY CONTACT: Chuck Johnston Kyla Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Childs Date: 7-08-08
NAME OF TRANSPORTER: (DRIVER)	Name: <i>Hcctor B</i> Signature: <i>91 f B</i> Date: 7-02- 18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: TMaAnue Date: 7/2/18
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman



Customer:

CHUCK JOHNSTON

Ordered by: AFE#:

PO #: Manifest#; NΑ

Manif, Date: Hauler:

Driver Truck #

Card# Job Ref# VANGUARD PERMIAN

Customer #: CRI5830

7/2/2018 M MATA TRUCKING LLC

HECTOR 150

Ticket #: 700-907980 Bid#:

Walk-in Bid 7/2/2018 Generator: **VANGUARD**

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well #: 002

Field: Field #:

Date:

Rig: NON-DRILLING

County LEA (NM)

Facility: CRI

Module (1991A)		and the same		and the second second		E MARIE OF	naulity ful		a and and a state of	and State of	A NAMES AND DESCRIPTION OF THE
Contaminated 8	Boil (RCRA	4 Exempt)				20.00 yard	is			
	Cell	рH	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			, , , , , , , , , , , , , , , , , , , ,			
I hereby certify the 1988 regulatory of X RCRA Exem RCRA Non-Echaracteristics est amended. The form MSDS Inform	Generator Cartification: 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 InformationRCRA Hazardous Waste AnalysisProcess KnowledgeOther (Provide description above)										
Driver! Agent S	ignature	- Franklin Agentie	t for the second second	i generali de la composition della composition d	R360 Re	presenta	tive-Signatui	Service of the servic	ente de la companya d		
Customer Apor	oval			THIS	IS NOT	AN IN	VOICE!				
Approved By:						Da	te:				

t6UJ9A010M91

TRANSPOR	TER'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, 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; ERP EXEMPT IMPACTED SOIL 70	
VOLUME:	
FACILITY CONTACT: Chack Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Alfal Signature: Date:
NAME OF TRANSPORTER: (DRIVER)	Name: <u>Hector</u> B Signature: <u>91 + B</u> Date: 7-02- 18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: TManue Date: 7/2/18
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman



Customer: Customer#:

Ordered by:

Manifest#:

Manif, Date:

AFE #:

PO #:

Hauler:

Truck #

Card#

Job Ref#

Driver

VANGUARD PERMIAN

CRI5830

319085

7/2/2018

HECTOR

150

CHUCK JOHNSTON

M MATA TRUCKING LLC

O Bid #:

Date: 7/4/2018 Generator: VANGUARD

Ticket #:

Generator:

Well Ser, #: 03849

Well Name:

ABO SWD ROC 002

700-908495

Walk-in Bid

Well#:

Field:

Field#:

Rig: NON-DRILLING

County

LEA (NM)

ontaminated s	Soil (RCR	A Exempt))				20.00 yard	ls			
	Cell	рH	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
.ab Analysis:	50/51	0.00	0.00	0.00	0			ų.			
hereby certify th	at accordi	ng to the Re	source Cons	ervation and	Recovery Act (
hereby certify th 988 regulatory d	at accordi eterminati	ng to the Re on, the abov	source Cons e described	ervation and waste is:	Recovery Act (RCRA) an	d the US Envi	ronmental Prot	ection Agend	cy's July	
hereby certify th 988 regulatory d X RCRA Exem	at accordi eterminati ot: Oil Fie	ng to the Re on, the abov ld wastes ge	source Cons e described nerated from	ervation and waste is: a oil and gas	Recovery Act (exploration and	RCRA) an	d the US Envir noperations and	ronmental Prot d are not mixe	ection Agend d with non-e	cy's July xempt waste	
hereby certify th 988 regulatory d X RCRA Exemp RCRA Non-E	at accordi eterminati ot: Oil Fie exempt: O	ng to the Re on, the abov Id wastes ge Il field waste	source Cons 'e described nerated from which is no	ervation and waste is: i oil and gas o on-hazardous	Recovery Act (exploration and that does not e	RCRA) an production sceed the n	d the US Envir n operations and ninimum standa	ronmental Prot d are not mixed ards for waste	ection Agend d with non-e hazardous by	cy's July xempt waste 7	
hereby certify the 988 regulatory downward RCRA Exemple RCRA Non-Etharacteristics estimended. The following the restance of th	at accordi eterminati ot: Oil Fie exempt: O ablished in	ng to the Re on, the abov ld wastes ge il field waste n RCRA regi	source Consider described increased from which is no ulations, 40	ervation and waste is: coil and gas on-hazardous CFR 261.21-	Recovery Act (exploration and that does not ex 261,24 or listed	RCRA) an production sceed the n I hazardous	d the US Envir n operations and ninimum stands waste as defin	ronmental Prot d are not mixe ards for waste ed in 40 CFR,	ection Agend d with non-exhazardous by part 261, sub	cy's July xempt waste / opart D, as	

THIS IS NOT AN INVOICE!

Approved By:	Date:	

Customer Approval

R369	onhold	NEW MEXICO NON-HAZARD (PLEA:	SE PRINT)	NIFEST Con Name Phone No.	Man Contagniforma
Operator No. Operators Nama	Vanquar	GENE	Permit/RRC No. Lease/Well Name & No.	NO.	085 JD#2
Address City, State, Zip Phone No.			County AFI No. Rig Name & No. AFE/PO No.	Non-d	allins
ACCUSATION OF THE PROPERTY OF	OF THE EVEL ABT EVEN	Veste/Service Identification and Amount			END TO A PERSON AND
Oil 8ased Muds	The state of the s	NON-INJESTABLE WATERS		ECTABLE WATERS	
Oil Based Cuttings		Washout Water (Non-injectable)	₩	ashout Water (Injectable)	
Water Based Muds Water Based Cutting	<u></u> .	Completion Fluid/Flow back (Non-injectable Produced Water (Non-injectable)		mpletion Fluid/Flow back (Injectabl Iduced Water (Injectable)	ė) <u> </u>
Produced Formation	Solids	Gathering Line Water/Waste (Non-Injectab	le) Ga	thering Line Water/Waste (Injectab	(e)
Tank Bottoms E&P Contaminated S	Soil 20	INTERNAL USE ONLY Truck Washout (exempt waste)	ot 11.1	ER EXEMPT WASTES (type and gene	ation process of the waste)
Gas Plant Waste		Truck Washout (exempt waste)	-	De//Y	
Waste Generati	ON PROCESS;	DRILLING COMF	PLETION PR	ODUCTION G	ATHERING LINES
78.45 45 W	11 - HR 25 PY 1	NON-EXEMPT E&P Waste/Se	rvice identification and Amount	And the second s	See Man Charles
	All non-exempt E&F	NON-EXEMPT E&P Waste/Se waste must be analysed and be below the thr	eshali limits for toxicity (TCLP), I	nitability. Corrosivity and Reactivit	
Non-Exempt Other				lon-Ехетрt Waste List_on back	1,100,100,100
CALLA S. D. T. T. T. T.	0.02				<u> </u>
QUANTITY		8 - BARRELS	L - LIQUID	Y - YAROS	E - EACH
RCRA NON-E	261.21-261,24,	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR tachod, (Check the appropriate items as provide	, part 261, subpart D, as amende ed)		
RCRA NON-E	XEMPT: Oil field waste v 261.21-261.24, hazerdous is att MSDS Informat JON-OilsFEILD: Emergency non	which is non-hazardous that does not exceed to or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as provid-	, part 261, subpart D, as amendeed) Inalysis Other Ordered by the Department of Pub	d. The following documentation der er (Provide Description Below)	monstrating the waste as non-
EMERGENCY N	XEMPT: Oil field waste v 261.21-261.24, hazerdous is att MSDS Informat JON-OilsFEILD: Emergency non	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as providion RCRA Hazardous Waste And the order of the	, part 261, subpart D, as amendeed) Inalysis Other Ordered by the Department of Pub	d. The following documentation der er (Provide Description Below)	nonstrating the waste as non-
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EMERGENCY N	XEMPT: Oil field waste v 261,21-261,24, hazaidous is att MSDS informat MON-OilsFEILD: Emergency non determination a	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as providion RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been o and a plaception of the waste must accompany	, part 261, subpart D, as amendeed) Inalysis Other Indexed by the Department of Put This form	d. The following documentation der er (Provide Description Below)	nonstrating the waste as non-
EMERGENCY N (PRINT) AL	XEMPT: Oil field waste v 261.21-261.24, hazardous is att MSDS informat ION-OilsFellD: Emergancy non determination a	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as providion RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been o and a plaception of the waste must accompany	, part 261, subpart D, as amendeed) inalysis Otherdered by the Department of Putthis form	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation	nonstrating the waste as non-
EMERGENCY N (PRINT) AL Transporter's Name	XEMPT: Oil field waste v 261,21-261,24, hazaidous is att MSDS informat MON-OilsFEILD: Emergency non determination a	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as providion RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been o and a plaception of the waste must accompany	, part 261, subpart D, as amende ed) inalysis Oth redered by the Department of Put this form) DATE Driver's Name	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation	nonstrating the waste as non-
EMERGENCY N (PRINT) AL Transporter's Name	XEMPT: Oil field waste v 261,21-261,24, hazaidous is att MSDS informat MON-OilsFEILD: Emergency non determination a	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as providion RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been o and a plaception of the waste must accompany	part 261, subpart D, as amendeed) Inalysis Other Indered by the Department of Publish form OATE PORTER Driver's Name Print Name	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation	nonstrating the waste as non-
Transporter's Name Address Phone No.	XEMPT: Oil field waste v 261.21-261,24, hazardous is at MSDS informat MON-Oil FEILD: Emergency rion determination of THOMIZED AGENTS MATTER THOMIZED	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as provided in RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been out a place pitton of the waste must accompany in the company	part 261, subpart D, as amendeed) nalysis Other refered by the Department of Put this form OATE PORTER Driver's Name Print Name Phone No. Truck No. above and delivered without inc	d. The following documentation der (Provide Description Below) Itis Safety (the order, documentation Signature) HECHO dent to the disposal facility listed by	nonstrating the waste as non- nof non-hazardous waste
Transporter's Name Address Phone No. I hereby certify that to	XEMPT: Oil field waste value of 261,21-261,24, hazardous is at MSDS information of the short of	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as provided in RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been out a place provided in the waste must accompany in the cache provided i	PORTER Driver's Name Phone No. Truck No. above and delivered without inc	d. The following documentation der (Provide Description Below) Its Safety (the order, documentation Signature) Hecho Jeon To the disposal felility listed below to the disposal felility listed by the content of the cont	nonstrating the waste as non- nof non-hazardous waste
Transporter's Name Address Phone No. I hereby certify that to	XEMPT: Oil field waste v 261.21-261,24, hazardous is at MSDS informat MON-Oil FEILD: Emergency rion determination of THOMIZED AGENTS MATTER THOMIZED	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR cached. (Check the appropriate items as provided in RCRA Hazardous Waste Achazardous, non-oilfelid waste that has been out a place provided in the waste must accompany in the cache provided i	part 261, subpart D, as amendeed) nalysis Other refered by the Department of Put this form OATE PORTER Driver's Name Print Name Phone No. Truck No. above and delivered without inc	d. The following documentation der (Provide Description Below) Itis Safety (the order, documentation Signature) HECHO dent to the disposal facility listed by	nonstrating the waste as non- nof non-hazardous waste
Transporter's Name Address Phone No. I hereby certify that to SHIPMENT OF TIN: Site Name/ Permit No. Ha	MEMPT: Oil field waste value 261,21-261,24, hazaldous is at MSDS information. ION-OINFEILD: Emergency non determination of the minimum of th	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as providion RCRA Hazardous Waste A chazardous, non-oilfelid waste that has been out a please of the waste must accompany TRANS TRANS as/were picked up at the Generator's site listed ORIVER'S SIGNATURE P DISPOSA	part 261, subpart D, as amende ed) nalysis Oth refered by the Department of Put this form) OATE PORTER Driver's Name Print Name Phone No. Truck No. above and deligned without inc	d. The following documentation der er (Provide Description Below) Lic Safety (the order, documentation Signaful A C C C C dent to the disposal facility listed by E C C C C RECEIVING	nonstrating the waste as non- nof non-hazardous waste
EMERGENCY N (PRINT) AL Transporter's Name Address Phone No. I hereby certify that to SHIPMENT C T IN: Site Name/ Permit No. Address NORN	MEMPT: Oil field waste value of 1,241,2461,24, hazardous is at MSDS information of the shove named materials) waste of the shove named materials waste of the shown of the sho	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as providing in the control of the waste that has been out a place of the waste must accompany in the control of the control of the waste must accompany in the control of the cont	PORTER Driver's Name Phone No. DFACILITY Phone No. 575	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation SIGNATU HECHO SIGNATU RECEIVING Name/No.	nonstrating the waste as non- nof non-hazardous waste
EMERGENCY N (PRINT) AL Transporter's Name Address Phone No. I hereby certify that to SHIPMENT C T IN: Site Name/ Permit No. Address NORN	MSDS Information and MSDS Info	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as providing in the control of the waste that has been out of a place of the waste must accompany to the control of	PORTER Driver's Name Phone No. Phone No. Phone No. Phone No. Phone No. Phone No. S75	d. The following documentation der (Provide Description Below) Its Safety (the order, documentation Sidnaru) Hecho Y dent to the disposal facility listed by the RECEIVING Name/No.	nonstrating the waste as non- nof non-hazardous waste elow. GAREA SOLASIA
Transporter's Name Address Phone No. I hereby certify that to SHIEMMENT OF TIN: Site Name/ Permit No. Ha Address 66 NORM PASS THE	MEMPT: Oil field waste value of 1,241,2461,24, hazardous is at MSDS information of the shove named materials) waste of the shove named materials waste of the shown of the sho	which is non-hazardous that does not exceed the or listed hazardous waste as defined by 40 CFR tachod. (Check the appropriate items as providing in the control of the waste that has been out of a place of the waste must accompany to the control of	part 261, subpart D, as amende ed) nalysis Oth refered by the Department of Put this form) OATE PORTER Driver's Name Print Name Phone No. Truck No. above and descreed without inc security Phone No. 1FACILITY Phone No. 575 If YES, was reading > 1 NO	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation Signarius HECLIO Signarius RECEIVING Name/No. 393-1079	nonstrating the waste as non- not non-hazardous waste elow. AREA YES NO
Transporter's Name Address Phone No. I hereby certify that to SHIEMMENT OF TIN: Site Name/ Permit No. Ha Address 66 NORM PASS THE	MANUEL AGENTS MA	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cachod. (Check the appropriate items as providion RCRA Hazardous Waste A chazardous, non-oilfelid waste that has been o and a desciption of the waste must accompany CANN TRANS TRANS DISPOSA Marker 66 Carlsbad, NM 88220 e) YES NO	part 261, subpart D, as amende ed) nalysis Oth refered by the Department of Put this form) OATE PORTER Driver's Name Print Name Phone No. Truck No. above and descreed without inc security Phone No. 1FACILITY Phone No. 575 If YES, was reading > 1 NO	d. The following documentation der er (Provide Description Below) Its Safety (the order, documentation Signarius HCC/O Signarius RECEIVING Name/No. 393-1079 BLS Received	nonstrating the waste as non- nof non-hazardous waste elow. GAREA SON S
Transporter's Name Address Phone No. I hereby certify that to SHIEMMENT OF TIN: Site Name/ Permit No. Ha Address 66 NORM PASS THE	MANUEL AGENTS MA	which is non-hazardous that does not exceed it or listed hazardous waste as defined by 40 CFR cachod. (Check the appropriate items as providion RCRA Hazardous Waste A chazardous, non-oilfelid waste that has been o and a desciption of the waste must accompany CANN TRANS TRANS DISPOSA Marker 66 Carlsbad, NM 88220 e) YES NO	PORTER Driver's Name Phone No. BS&W/8 BS&W/8	d. The following documentation der er (Provide Description Below) lic Safety (the order, documentation Signarius HECLIO Signarius RECEIVING Name/No. 393-1079	nonstrating the waste as non- not non-hazardous waste elow. AREA YES NO

White - R360 ORIGINAL C-138

Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Facility: CRI

Customer: Customer #:

Ordered by:

Manifest #:

Manif, Date:

NA

151

7/17/2018

ORNALDO

AFE#:

Hauler:

Driver

Truck #

Card#

Job Ref#

PQ#:

VANGUARD PERMIAN CRI5830 **CHUCK JOHNSTON**

M MATA TRUCKING LLC

700-912175

Ticket #: Bid#: Date:

Walk-in Bid 7/17/2018 VANGUARD

Generator:

Generator #: 03849 Well Ser. #:

Well Name:

ABO SWD ROC

Wel! #:

002

Field:

Field #:

Rig:

NON-DRILLING

County

LEA (NM)

Product/Servi	ÇB I				den i de la company de la La company de la company d	9	uantity Uni	(5			nasta e e e e e e e e e e e e e e e e e e e		
Contaminated :	Soil (RCR	A Exempt))		20.00 yards								
	Cell	рН	CI	Cand.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight		
Lab Analysis:	50/51	0.00	0.00	0.00	0						,		
I hereby certify the 1988 regulatory of X RCRA Exem RCRA Non-licharacteristics estamended. The form MSDS Information Driver Agent S	nat accordination of the control of	ng to the Re on, the abov d wastes ge il field waste i RCRA regi cumentation _ RCRA Ha	source Consider described increted from the which is not allations, 40 or is attached izardous Was	ervation and waste is: oil and gas on-hazardous CFR 261.21- to demonstra ste Analysis	exploration and that does not e. 261.24 or listed te the above-de Process K	RCRA) and production accept the interest of th	d the US Envi n operations an ninimum stand s waste as defir ste is non-hazz Other (Pr	d are not mixe ards for waste ted in 40 CFR, trdous. (Check povide descripti	tection Agen d with non-e hazardous b part 261, su the appropri on above)	cy's July exempt waste y bpart D, as			
Customer Appr	ovaj 8.	order erse visites vices Society (See All Vices)	ARTHUM TOMPTHER SECTION OF THE SECTI	an garage and an and an	TO THE STREET OF	MC and the same was		Andreas and Control of the	ny manasiana kao				
				THIS	IS NOT	AN IN	VOICE!						
Approved By:						Da	ite:						

t6UJ9A010XZ0

TRANSPORT	er's man	IIFEST
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: ### 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking VIT # 151	>	Name: On A Signature: Dote: 7-17-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:
	Direct Bill: Care Of:	- · -



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

JUAN

39

AFE# PO#:

Manifest #: NA

Manif. Date: 6/21/2018 Hauler:

M MATA TRUCKING LLC

Driver Truck #

Card # Job Ref#

Ticket #: 700-904439 Bid #: Walk-in Bid Date: 6/21/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well# Field:

Field #:

NON-DRILLING Rig: LEA (NM) County

Facility: CRI

Permian Basin

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 vards

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 Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

TRANSPORTER'S MANIFEST		
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Site: A80.5W0 #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: CALJAA Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) # 39 20 Yard MM ata Trucking	Name: Tuen Go/au, 2 Signature 13/2 Date: G/20/18	
DISPOSAL STTE: R36D Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature:	
Direct Bill Care Of		

TRANSPORTER'S MANIFEST			
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:	
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Ödessa, 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 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		Name:	
DISPOSAL 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: 6/21/2018 M MATA TRUCKING LLC

Hauler: Driver Truck #

LALO 150

Card# Job Ref# Ticket#: 700-904440 Bid #: Date:

Walk-in Bid 6/21/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#:

Field:

Field #:

NON-DRILLING Rig: LEA (NM) County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

DUARU	Agent	Signature	

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

t6UJ9A010CKQ



³ermian Basin

Customer:	VANGUARD	PERMIAI
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Customer#: CRI5830

AFE #:

Ordered by: CHUCK JOHNSTON

PO #:

Manifest#: NA

Manif. Date: 6/21/2018 Hauler:

M MATA TRUCKING LLC **ADRIAN**

Driver Truck # 12

Card # Job Ref# Ticket #: 700-904444 Bid #: Walk-in Bid Date: 6/21/2018

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #: Field:

Field #:

Rig:

NON-DRILLING

VANGUARD

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units "

Contaminated Soil (RCRA Exempt)

20.00 yards

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

Benerator Certification Statement of Waste Status

The state of the s 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 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)

Priver/ Agent	Şignature
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R350 Representative Signature

Sustomer Approval

Approved By:

THIS IS NOT AN INVOICE!

6/21/2018 9:02 (% 1

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: ERP EXEMPT IMPACTED SOIL VOLUME: 20 X	***************************************		
FACILITY CONTACT: Chuck Tohnston Kyle Zimmermen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	***************************************	Signature:	
NAME OF TRANSPORTER: (DRIVER) M. Mata Trucking Truck #12.		Name: $A J_{ria} / 6$ Signature: $A J_{ria} / 6$ Date: $6 - 21 - 18$	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	-	Signature: JMag Date: U21 8	
		Vanguard Operating, LLC Kyle Zimmerman	



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #:

PO #:

Hauler:

Manifest#:

Manif. Date: 6/21/2018

M MATA TRUCKING LLC SAUL

Driver Truck # 38

Card # Job Ref#

700-904446 Walk-in Bid

Bld #: Date: Generator:

Ticket #.

6/21/2018 VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #:

NON-DRILLING

Rig: County

LEA (NM)

acility: CRI

roduct / Service

Quantity Units

iontaminated Soil (RCRA Exempt)

20.00 yards

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

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 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!

ipproved By: Date:

6/21/2018 9:14 5: -

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, 7175, 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, U.C 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER)	***************************************	#38	
		Name: Soul Marine	
		Signature: Cix. / / / Carico b	
		Date: 6-21-18	
DISPOSAL SITE: R360 Halfway Facility 4507 W Cerlsbad Hwy PO Box 388 Höbbs, NM 88241		Signature:	
MACCAS AND	»	Date: Well 18	
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	

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 20			
VOLUME:			
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)		Name: $\frac{1/cclo \vee B}{Signature: 9/fB}$ Date: $6-21-18$	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	-	Signature:	
	Direct Bill: Care Of:	Kyle Zimmerman	



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#

PO #:

Manifest#: NA

Manif. Date: 6/21/2018

Hauler: Driver M MATA TRUCKING LLC HECTOR

Truck#
Card#

HEG I 151

Card # Job Ref # Ticket#: Bid#:

700-904454 Walk-in Bid

Date: 6/21/2018 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

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

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)

Driver/ Agent Signature	R360 Representative Signature
7/1/3	JHVVI
Customer Approval	

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:	Date:	
		``````````````````````````````````````



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNTON

AFE#: PO#:

> Manifest #: NA Manif. Date: 6/21/2018

Hauler: M MATA TRUCKING LLC
Driver LALO
Truck # 150

Card# Job Ref# Ticket #: 700-904504
Bid #: Walk-in Bid
Date: 6/21/2018
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

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Ceil 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**

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)

THIS IS NOT AN INVOICE!

**Driver/ Agent Signature** 

R360 Representative Signature

**Customer Approval** 

Approved By: _____ Date: ____

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6/21/2018 11.13

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, 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 Johns ton Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: ChiphA  Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER)  M. MATA TYWCKING  BELLY DOWN  TRUCK #- 1'50		Name: Jalo Signature: ET  Date: 6-21-18	
OISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: JM aninu	
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	

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, 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: Chack Tohas for Kyle Zimmermon Vanguard Operating, tLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>ChiphA</i> Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M MOTO	Tyur	Name: Nan Galaviz Signature: 13/2 Date: 0/2/5	
<u>DISPOSAL SITE:</u> R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature:	
	Direct Bili: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest #: NA

Manif, Date: 6/21/2018 M MATA TRUCKING LLC Hauler:

JUAN

Driver

39 Truck # Card # Job Ref#

Ticket #: 700-904505 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)

H₂S

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

PCI/GM

MR/HR

% Oil Weight

ρH CI Cond. %Solids 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:

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)

Driver/ Agent Sig	mature
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R360 Representative Signature

**Customer Approval** 

## THIS IS NOT AN INVOICE!

Approved By:	Date:
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VANGUARD PERMIAN Customer:

Customer #: CRI5830 Ordered by: CHUCK JOHNSTON

AFE 批 PO#:

Manifest #: NA Manif, Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC **ADRIAN** 

Truck# 12

Card # Job Ref# Ticket #: 700-904506 Bid #: Walk-in Bid Date: 6/21/2018 Generator: **VANGUARD** 

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well#:

Field:

Field #: Rig:

County

NON-DRILLING LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

MR/HR H25

% Oil Weight

Cell Lab Analysis: 50/51 0.00 0.00

%Solids Cond. 0.00

TDS

PCI/GM

#### 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
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Customer Approval

R360 Representative Signature

## THIS IS NOT AN INVOICE!

Approved By: Date:

TRANSPORTER'S N	IΑ	NI	FEST
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**SHIPPERS FACILITY NAME AND ADDRESS:** 

**LOCATION OF MATERIAL:** 

Vanguard Operating, LLC

4001 Penbrook, Suite 201, Odessa, TX 79762

ABO SWD #2 Site:

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:

**E&P EXEMPT IMPACTED SOIL** 

VOLUME:

FACILITY CONTACT:

Chrek Johnston Kyle Zimmerman

Vanguard Operating, LLC

4001 Penbrook, Suite 201, Odessa, TX 79762

Date:

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking

Truck # 12

DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy

PO Box 388

Hobbs, NM 88241

Direct Bill: Vanguard Operating, LLC

Care Of: Kyle Zimmerman

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, R36E Location: Lea Co, NM API: 30-025-03849
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
DESCRIPTION OF WASTE:		
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chuck Tohns ton Kyle Zhimermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>Chiff</i> Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	***************************************	Name: Scol March
		Signature: Seed 12 coco le
		Date: (3 - 2/ -) \$
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy		
PO Box 388 Hobbs, NM 88241		Signature:
	•	Date:
		Vanguard Operating, LLC Kylc Zimmerraan



Customer: VANGUARD PERMIAN Customer #: CRI5830

Ordered by: CHUCK JOHNSTON AFE #:

PO #:

Manifest #: NA Manif, Date: 6/21/2018.

Hauler. Driver

M MATA TRUCKING LLC SAUL

38

Truck# Card # Job Ref# Ticket#:

700-904514

Bid # Date:

Walk-in Bid 6/21/2018 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

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

#### 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): cess Knowledge __ Other (Provide description above)

MSDS Information RCRA	. Hazardous Waste Analysis Pro
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**Driver/ Agent Signature** 

Munke

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Approved By:

Date:

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6/21/2019



tian Basin

Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO#:

Manifest#:

Manif. Date: 6/21/2018

151

Hauler: Driver

M MATA TRUCKING LLC **HECTOR** 

Truck #

Card# Job Ref# Ticket #:

700-904517

Bid #: Date:

Walk-In Bid 6/21/2018 **VANGUARD** 

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC 002

Well #:

Field:

Field #:

Rig:

NON-DRILLING

LEA (NM) County

ity: CRI

uct / Service

Quantity Units

aminated Soil (RCRA Exempt)

20.00 yards

Cell DΗ CI %Solids TDS PCI/GM Cond. MR/HR H₂S % 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:

ICRA 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-bazardous. (Check the appropriate items): ASDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

F/ Agent Signature

R360 Representative Signature

omer Approval

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roved By: Date:

A010CTA

6/21/2018 15 ...

TRANSPOI	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, 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 Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: CALJAA  Date: 6-30-18	F	
NAME OF TRANSPORTER: (DRIVER)			
m. mouta	Name: Hector B		
#151	Signature: 7/48		
r 🗸 1	Date: 6-71-18		
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241	Signature: JMG Date: UZI 18	- )	
	Oirect Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman	**	



VANGUARD PERMIAN **Customer:** 

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE # PO#:

Manifest #: NA Manif. Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC LALO 150

Truck #

Card # Job Ref# Ticket #:

700-904554

Bid #: Date:

Walk-in Bid 6/21/2018 **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

Call CI %Solids Cond. 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 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** 

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Approved By

Date:

160000 100000 NO

12 m.

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, 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 SQIL		
VOLUME:		
FACILITY CONTACT: Chuck Johns ton 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  BOLLY DUMP  TWIKE # 180		Name: Lale Signature: ET  Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 100 Autoroco
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



VANGUARD PERMIAN Customer: Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #: NΑ Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC

Driver 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

Well#: 002

Field:

Field #: Rig;

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

**Quantity Units** 

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell DΗ 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-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:

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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, 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, U.C 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: <i>OM JAA</i> Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M Mata Ti	Name: Juan Galaurz Signatura 430 Date: 6/2//8	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: JM JO Date: UZU (8	
Dienati	Wangung Anarting U.C.	

Care Of: Kyle Zimmerman



VANGUARD PERMIAN Customer:

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

Manifest #:

NA Manif. Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC ADRIAN 12

Truck # Card # Job Ref# Ticket #:

700-904560

Bid # Date:

Walk-in Bid 6/21/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well#:

Field:

Field #: Ria:

NON-DRILLING

County LEA (NM)

002

'acility: CRI

roduct / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

12.00 yards

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

# 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:

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)

R360 Representative Signature

ustomer Approval

THIS IS NOT AN INVOID

\pproved By:

Date:

5UJ9A@10CY0

6/21/2015

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, 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: 26 K V		
FACILITY CONTACT: Chack Johns Ion Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752	Signature: CALJAA  Date: 6-30-18	
NAME DE TRANSPORTER: (DRIVER)  M. Mata Trucking  Truck #12.	Name: Adrian 6 Signature: Adrian 6	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388	Date: 6-21-18  Signature: 1 Mark	

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

Date:_

Hobbs, NM 88241



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCKJ JOHNSTON

AFE#; PO#:

Manifest #: NA Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC

Driver SAUL Truck # 38

Card# Job Ref# Ticket #: 700-904564
Bid #: Walk-in Bid
Date: 6/21/2018
Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: 7

: ABO SWD ROG 002

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 % Oil Weight Lab Analysis: 50/51 0.00 0.00 0

#### Generator Certification Statement of Waste Status

Mandow

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 I), 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** 

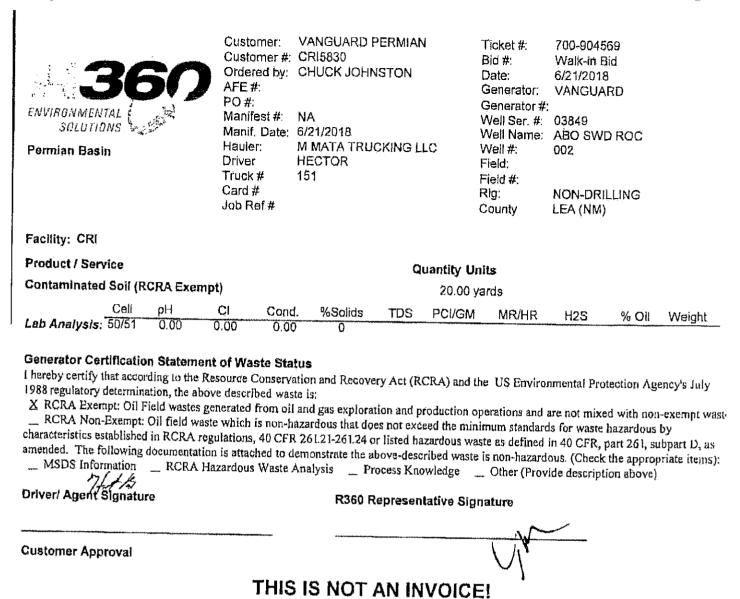
THIS IS NOT AN INVOICE!

Approved By: _____ Date:

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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, 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 Tohnston  Kyle Zimmerman  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Ollflag Oate: 6-50-18	
NAME OF TRANSPORTER: (ORIVER)	<b>****</b> ********************************	÷ 758	
		Name: Seal Maria	
		Signature: Cross. Alone be	
		Date:	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: A Date:	
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman	



Approved By: _____ Date: ____

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6/21/20/19 1

TRA	١NS	PORT	'ER	51	MAN	IJF	est
-----	-----	------	-----	----	-----	-----	-----

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: 90-025-03849

TRANSPORTERS NAME AND ADDRESS:

M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241

DESCRIPTION OF WASTE:

**E&P EXEMPT IMPACTED SOIL** 

VOLUME: 20 12/5/

FACILITY CONTACT: Lon Chack Johnston

Kyle Zimmerman Vanguard Operating, LLC

4001 Penbrook, Suite 201, Odessa, TX 79762

Signature:

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

Name: Hetar B

Signature: 948

Date: 6-2/-18

DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy

PO Box 388 Hobbs, NM 88241 Signature

Date:

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

Weight



VANGUARD PERMIAN Customer: Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO #:

> Manifest #; NA Manif. Date: 6/21/2018

Hauler: Driver

M MATA TRUCKING LLC LALO

Truck # Card #

150 Job Ref#

Ticket#: Bid#:

700-904622 Walk-in Bid 6/21/2018

VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well#:

002

Field:

Date:

Field #: Ria:

NON-DRILLING

County

LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soll (RCRA Exempt)

20.00 yards

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

# Générator 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** 

THIS IS NOT AN INVOICE!

Approved By:

Date:

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6/21/2018 : 66 n

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, 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 Tohnston  Kyle Zimmermon  Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Off JAA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATH TRUCKING  BOLLY DUMP  TWIKE # 150		Name: Jala Signature: ET Date: 6-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	•	Signature: 4 Martino
	Dîrect Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO #:

Manifest #:

NA Manif. Date: 6/21/2018

Hauler: Driver Truck #

NAUL 39

Card# Job Ref# Ticket#: Bid#:

700-904623 Walk-in Bid

Date: 6/21/2018 Generator: VANGUARD

Generator#:

Well Ser. #: 03849

Wéll Name: ABO SWD ROC

002

Well#:

Field:

Field #:

Rig: County NON-DRILLING

LEA (NM)

Facility: CRI

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:

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)

Driver/ Agent Signature

**Customer Approval** 

R360 Representative Signature

THIS IS NOT AN INVOICE!

Approved By: Date:

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TRANSPORTER'S M	ANIFEST
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: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) MMata Tr	Name: Juan Galaurz Signature: 470 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MALL
Direct Bi Care O	



^Jermian Basin

Customer: VANGUARD PERMIAN

Customer #: CRI5830
Ordered by: CHUCK JOHNSTON

AFE#: PO#:

Manifest#: NA Manif. Date: 6/21/2018

Hauler:

M MATA TRUCKING LLC

Driver SAUL Truck # 38

Card # Job Ref # Ticket #:

700-904640

Bid #: Date: Walk-in Bid 6/21/2018 VANGUARD

Generator: Generator #:

Well Ser. #; 03849

Well Name: A

B: ABO SWD ROC 002

Well #: Field:

Field #:

Rig; County

NON-DRILLING LEA (NM)

'acility: CRI

'roduct / Service

Quantity Units

iontaminated Soil (RCRA Exempt)

20.00 yards

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

# ienerator Certification Statement of Waste Status

Menuter

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 waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by arracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as needed. 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!

pproved 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 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:	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
E&P EXEMPT IMPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Chack Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79752		Signature: Chiffee  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)		47-38 Name: 300/ March
		Signature: Course / Lieur Le
		Date: 6-21-19
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	£	Signature: MA
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



Customer:

Customer #: CRI5830

AFE#: PO #:

Manifest#:

Manif. Date: 6/21/2018 Hauler:

Driver

Truck # Card# Job Ref#

VANGUARD PERMIAN

Ordered by: CHUCK JOHNSTON

NA

M MATA TRUCKING LLC **HECTOR** 

151

Walk-in Bid 6/21/2018

700-904644

VANGUARD

Generator: Generator #:

Ticket#:

Bid #:

Date:

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 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 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/-J-B	<u> </u>
Customer Approval	

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Approved By:	Date ⁻	
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6/21-31 .

TRANSPORTER'S MANIFEST	
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:	
E&P EXEMPT IMPACTED SOIL	
VOLUME: 20 Nº 151	
FACILITY CONTACT:  Chael Johnston  Kyle Zimmerman  Vanguard Operating, LLC  4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: Off place: 6-30-18
NAME OF TRANSPORTER: (DRIVER)	Name: Hertor B Signature: 918 Date: 6-21-18
OISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MODATE: LUCIL
	Direct Bill: Vanguard Oppositing 110

Care Of: Kyle Zimmerman



Customer: VANGUARD PERMIAN

Customer #: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

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

39

Hauler: Driver M MATA TRUCKING LLC JUAN

Driver Truck #

Card #
Job Ref #

Ticket#;

700-904788

Bid #: Date: Walk⊣in Bid 6/22/2018 VANGUARD

Generator: Generator #:

Well Ser. #: 03849

Well Name:

: ABO SWD ROC

Well#: Field: 002

Lieid:

Field #: Rig:

Rig: County NON-DRILLING LEA (NM)

Facility; CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Cell Lab Analysis: 50/51

pH CI 0.00 0.00

Cond. 0.00 %Solids

TDS PCI/GM

MR/HR

H2S

% 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:

Driver/ Agent Signature

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

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6/22/21/05

TRANSPORTER'S MANIFEST	
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Opérating, 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 Zimmermon Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762	Signature: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) MMata Tr #39201/06d	Name: Juan Galaure Signatura: 470 Date: 6/21/18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO 80x 388 Hobbs, NM 88241	Signature: MALLS Date: UZLS
Direct B Care C	" t #=

ite: egals: ocation:	ON OF MATERIAL: ABO SWD #2 UL "C", Sec, 2, T175, R36E Lea Co, NM
egals: ocation:	UL "C", Sec, 2, T175, R36E Lea Co, NM
	30-025-03849
gnature <u>:</u>	Chipha
ate: _	6-30-18
Sng	Adrien 6
gnature	120
	10 9 me: <u>J</u>

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

PO Box 388 Hobbs, NM 88241



Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE #: PO #:

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

Hauler:

M MATA TRUCKING LLC

Driver ADRIAN
Truck # 12

Card # Job Ref# Ticket#; Bid#:

700~904789 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

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 0.00 0

# 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 1888 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 waster RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by taracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as needed. 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
		-

Adrun (

R360 Representative Signature

ustomer Approval

# THIS IS NOT AN INVOICE!

pproved By: _____ Date:

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Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

AFE#: PO#:

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

Hauler:

M MATA TRUCKING LLC

Driver Truck # SAUL 38

Card# Job Ref# Ticket #: Bid #:

700-904790 Walk-in Bid

Date: 6/22/2018 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 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)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOIC

Approved By: Date: _

t6UJ9A010DEZ

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:		
FACILITY CONTACT: Chuck Johnston Kyle Zirmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>CAUSAA</i> Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER)  M. MATA TRUCKING  BOLLY DUMP  THUR # 150  38		Name: Fall Saul Signature: E-T Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 1 2018
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman

4001 Penbrook, Suite 201, Odessa, TX 79762

Kyle 2lmmermen. Vanguard Operating, LLC

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: Check Johnston Kyle Zimmermen	Signature: ChiphA

Date:

6-50-18

NAME OF TRANSPORTER (DRIVER) M Mata Trucking

439 20 1/06d Name: 35

TRANSPORTER'S MANIFEST

DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241

Signature

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



Customer: VANGUARD PERMIAN

Customer#: CRI5830

12

Ordered by: CHUCK JOHNSTON

AFE#:

PO#:

Manifest #: NA Manif, Date: 6/22/2018

Hauler: Oriver M MATA TRUCKING LLC ADRIAN

Truck#

Card # Job Ref# Ticket #:

700-904789 Walk-in Bid

Bid #: Date:

vvaik-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)

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 0.00 0

# 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 waster 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 ftems):

___MSDS Information ____RCRA Hazardous Waste Analysis ____ Process Knowledge _____Other (Provide description above)

river/ Agent S	ignature
Λ	/
Adran	/

----

R360 Representative Signature

ustomer Approval

THIS IS NOT AN INVOICE!

pproved 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:

M MATA TRUCKING LLC

Driver JUAN Truck # 39

Card # Job Ref# Ticket #: 700-904823 Bid #: Date:

Walk-in Bid 6/22/2018 VANGUARD

Generator: 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 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** 

THIS IS NOT AN INVOICE!

Approved By: Date:

**WINDARDING** 

6/22/20% g

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, R36E Location: Lea Co, NM API: 30-025-03849	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO 60X 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: CALJAA  Date: 6-30-18	
NAME OF TRANSPORTER: (DRIVER) M Mata Tro.	Name: JUCH Gelaurz Signatura 4390 Date: 6/2///	
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: MASSIGNATURE: UZL 8	
Direct Bill: Care Of:	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 ADRIAN

Driver AD Truck # 12

Card# Job Ref# Ticket #: 700-904827 Bid #: Walk-in Bid

Bid #: Walk-in Bid
Date: 6/22/2018
Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC

Well #: 002

Field:

Field #:

NON-DRILLING

Rig: County

LEA (NM)

lacility: 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 n

# 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)

)river/	Agent	Signature
11 1	_	- /

R360 Representative Signature

**Justomer Approval** 

THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

16UJ9A010DM7

6/22/2018 .....

TRANSPO	RTER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	
Vanguard Operating, LLC	LOCATION OF MATERIAL:
IRANSPORTERS MAAGE 4.1.	Site: ABO SWD #2 Legals: UL "C", Sec. 2, T175, 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: Chack Johns for  Kyle Zimmermen Vanguard Operating, LLC 4001 Penbrook, Sulte 201, Odessa, TX 79762	Signature: <i>CALJAA</i> Date: 6-30-18
NAME OF TRANSPORTER (DRIVER) M MATO	Trocking Admin 6
# 39 20 yard Truck # 12	Name: 479 Signatura: 479 Date: 6/2/8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 98241	Signature: MXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Direct Bill: Vanguard Operating, LLC Care Of: Kyle Zimmerman

表 / 🐍

TRANSPORT	ER'S MAN	IFES1
SHIPPERS FACILITY NAME AND ADDRESS:		LOCATION OF MATERIAL:
Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Site: ABO 5WD #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 (MPACTED SOIL		
VOLUME:		
FACILITY CONTACT: Check Johnston Kyle Zimmerman Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: <i>ChilphA</i> Date: <u>6-30-18</u>
NAME OF TRANSPORTER: (DRIVER) M. MARIA TRUCKING BOLLY DUMP TRUCK # 150 38		Name: 2005 Saw Signature: 21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 1 Martin
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman



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 #:

700-904828

Bid #: Date: Walk-in Bid 6/22/2018 VANGUARD

Generator: Generator #:

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

Well Name: ABC Well #: 002

Well #: Field:

Field #:

Rig: County NON-DRILLING

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/	Agent	Signature

Mankane

R360 Representative Signature

tomer Approval

THIS IS NOT AN INVOICE!

oved By:	Date:	***************************************	
		NAME OF THE OWNER OWNER OF THE OWNER OW	

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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, 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 Zimmermen Vanguard Operating, LLC 4001 Penbrook, Suite 201, Odessa, TX 79762		Signature: Off JA Date: 6-30-18					
NAME OF TRANSPORTER: (DRIVER)  M. MAT A TRUCKING  BOLLY DUMP  TRUCK # 450		Name: Julo Signature: 4  Date: 6-21-18					
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241		Signature: T. Marinur Date: 422/18					
	Direct Bill: Care Of:	Vanguard Operating, LLC Kyle Zimmerman					



Permian Basin

Customer: VANGUARD PERMIAN

Customer#: CRI5830

Ordered by: CHUCK JOHNSTON

150

AFE#;

PO#:

Manifest #: NA Manif, Date: 6/22/2018

Hauler: Driver M MATA TRUCKING LLC LALO

Driver Truck #

Card # Job Ref# Ticket #: Bid #: 700-904836 Walk-in Bid 6/22/2018

Date: 6/22/2018 Generator: VANGUARD

Generator #:

Well Ser. #: 03849

Well Name: ABO SWD ROC Well #: 002

Field:

ld;

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 % 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 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 Représentative Signature
A 4	

**Customer Approval** 

# THIS IS NOT AN INVOICE!

Approved By:	Date:
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16UJ9AD10DNF



Permian Basin

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 12

Truck #
Card #
Job Ref #

Ticket#:

700-904867 Walk-in Bid

Bid #: Date:

6/22/2018 VANGUARD

Generator: Generator#:

Well Ser. #: 03849

Well Name:

ABO SWD ROC

Well#: Field:

Field #:

Rig:

NON-DRILLING

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 %-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 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 __ Uther (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

**Customer Approval** 

THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

tGUJ9A010DRU

6/22/2015 10 4

TRANSPORTER'S	MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL:
Vanguard Operating, U.C 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, PD BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P EXEMPT IMPACTED SOIL	
VOLUME:	
FACILITY CONTACT: Chack Johnston Kyle Zimmermon Vanguard Operating, LLC 4001 Pentirook, Suite 201, Odessa, TX 79762	Signature: Chiffee  Date: 6-30-18
NAME OF TRANSPORTER (DRIVER) M Mata Ti #39 20 1/06d  Twek #12	Name: Josephan 6 Name: Josephan 6 Signatura: 430 Date: 6/2//8
DISPOSAL SITE: R360 Halfway Facility 4507 W Carlsbad Hwy PO Box 388 Hobbs, NM 88241	Signature: Masses Date: UZUK
Direct Bil Care O	The state of the s

11 5

## 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, 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: ChiphA  Date: 6-30-18
NAME OF TRANSPORTER: (DRIVER) M. MATA TRUCKING BONY DUMP TOWER HE 150 38		Name: Fall Saul Signature: F-V Date: G-21-18
DISPOSAL SITE: R360 Halfway Facility 4507 W Carisbad Hwy PO Box 388 Hobbs, NM 88241		Signature: 100 Autorox Date: U2018
	Direct Bill: Care Of:	- · · · · · · · · · · · · · · · · · · ·

Received by OCD: 3/20/2023 9:14:06 AM

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

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

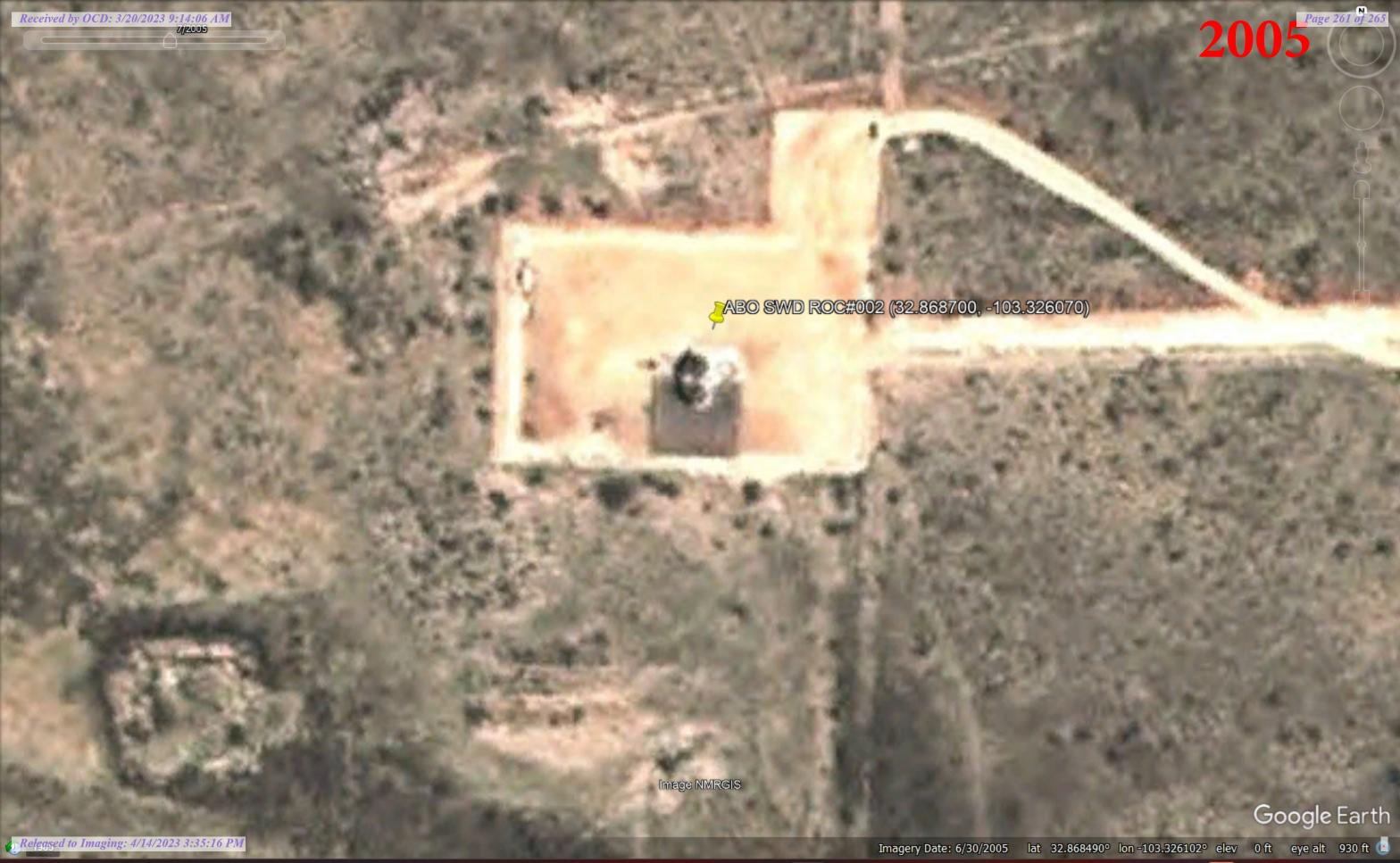
1).	Salita Fe, INVI 87303											
Release Notification and Corrective Action												
OPERATOR				[	☑ Initial	Report		Final Report				
Name of Company: Vanguard Contact: Chuck Johnston												
Address: 4001 Penbrook, Suite 201, Odessa Texas 79762 Telephone No. 432-202-4												
Facility Name: ABO SWD #2 Facility Type: Tank Battery												
Surface Ow	ner: State	·		Mineral C	wner:				API No			
LOCATION OF RELEASE												
Unit Letter C	Section 2	Township 17S	Range 36E	Feet from the	Nort	h/South Line	Feet from the	East/	West Line		Cou	•
		1/5	300								Le	:a
			La	titude: <u>N 32.86</u>	8700°	Longitude	: W 103.32607	0°				
						OF RELE		<del>-</del>				
Type of Rele	aca: Droduz	and Water		ŊAIT	JRE		Release: unknov	3.00	Volume D	Recovered:	unlmo	
Source of Re				•			lour of Occurren			Hour of Di		
						Historic			Historic			,
Was Immedi	ate Notice C		Ves IX	No 🗀 Not Re	ennired	If YES, To	Whom?					
By Whom?			140 2	, 110 🛅 1101 11	-quii vu	Date and H	lour:					
Was a Water	course Reac	:hed?		_			lume Impacting	the Wate	ercourse:			
			Yes 🗵	No		Not Applic						
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	Not Applicable								
						REC	EIVED					
		em and Reme				By O	livia Yu a	t 9:0	7 am.	Sep 2	1. 2	017
Historic rele	ase of prod	uced water fi	rom SWD	tank battery.						- 400	-, –	
		and Cleanup A										
Discovered h	istoric relea	se areas from	SWD tan	k battery. Sample:	s will b	e collected and	d sent to the lab i	or testin	ıg.			
				is true and comp								
regulations a	ll operators	are required to	o report ar	id/or file certain r	elease :	notifications a	nd perform corre	ctive acti	ions for rele	ases which	may e	ndanger
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health												
or the environ	nment. In a	ddition, NMO	CD accep	tance of a C-141	report (	does not reliev	e the operator of	responsi	ibility for co	mpliance v	with an	v other
federal, state.	or local lay	vs and/or regu	llations.		<u> </u>		<u> </u>	·		•		,
MILLEL						OIL CONSERVATION DIVISION						
Signature: (	M	ph								<b>M</b> .		
Signature:				Approved by Environmental Specialist:								
Printed Name	: Chuck Joi	nnston			$\dashv$		0/04/00			V		
Title: EHS						Approval Date: 9/21/2017 Expiration Date:						
E-mail Addre	es ciohneto	m@vnrlle cor	n			Conditions of	`Annroval·				1	
					Conditions of Approval:  See attached directive  Attached							
Date: 9-				432-202-4771		330 at		3		<u> </u>		
Attach Additional Sheets If Necessary  1RP-4817												
						11XI -401	<u>'</u>   [nOY1	7264	55140			

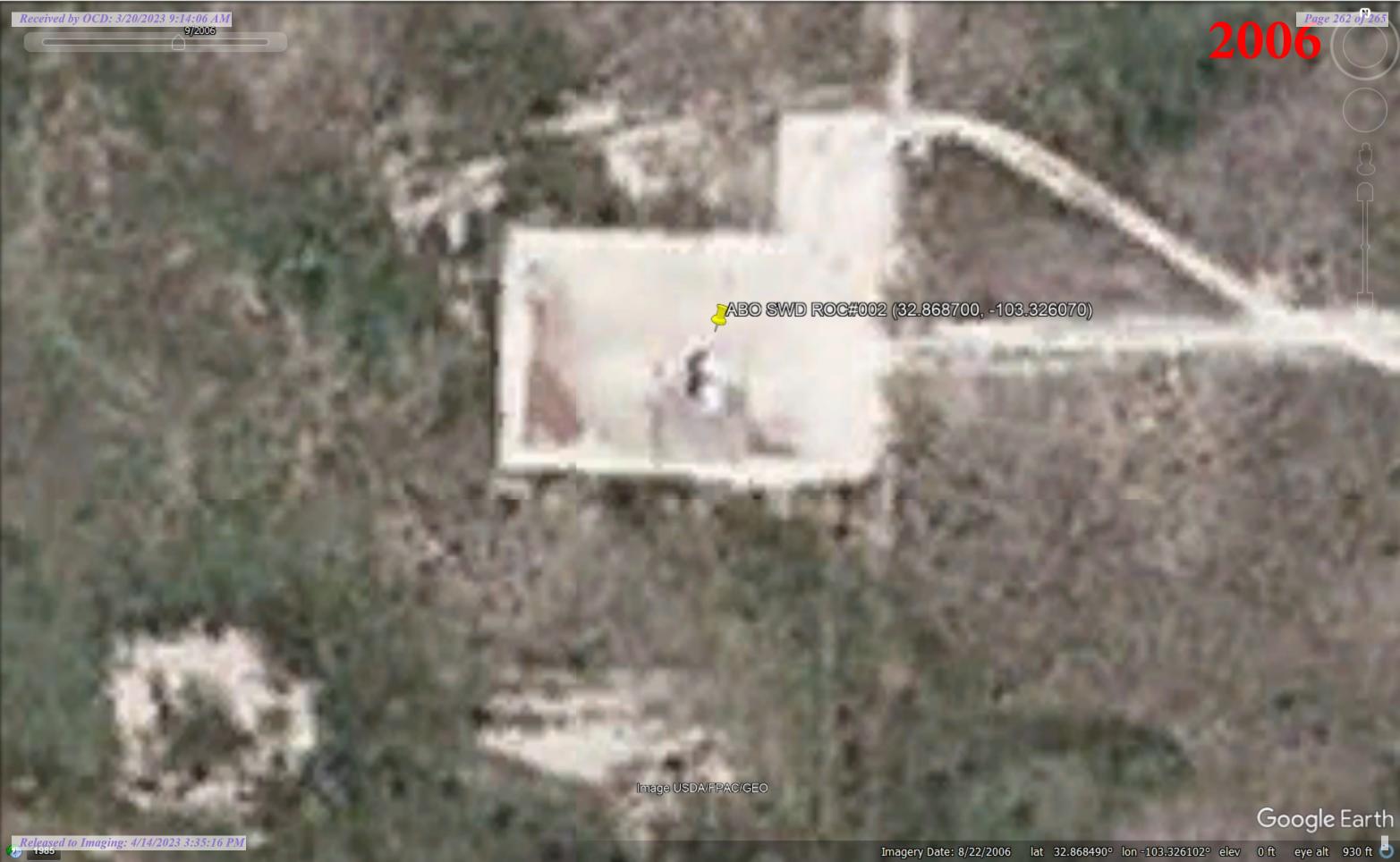
pOY1726455393

Released to Imaging: 4/14/2023 3:35:16 PM

**ABO Roc SWD #002 Historic Imaging:** 







ABO SWD ROC#002 (32.868700, -103.326070)

Image USDA/FPAC/GEO

Google Earth



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 198637

#### **CONDITIONS**

Operator:	OGRID:
Contango Resources, LLC	330447
111 E. 5TH STREET	Action Number:
FORT WORTH, TX 76102	198637
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	4/14/2023