

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

Responsible Party	Contango Resources, LLC	OGRID	330447
Contact Name	Chet Stuart	Contact Telephone	713-236-7530
Contact email	Cstuart@Contango.com	Incident # (assigned by OCD)	NSAP0110037006
Contact mailing address	717 Texas Ave, Suite 2900, Houston, TX 77002		

Location of Release Source

Latitude 32.868618 Longitude -103.3263931
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ABO SWD ROC #002	Site Type	Salt Water Disposal Surface Facility
Date Release Discovered	API# (if applicable) 30-025-03849		

Unit Letter	Section	Township	Range	County
C	02	17S	36E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chet Stuart</u>	Title: <u>Manager- Operations Support</u>
Signature: <u>Chet Stuart</u>	Date: <u>3/20/23</u>
email: <u>cstuart@contango.com</u>	Telephone: <u>713-236-7530</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>04/16/2023</u>

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 items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chet Stuart Title: Manager- Operations Support
Signature: Chet Stuart Date: 3/20/23
email: cstuart@contango.com Telephone: 713-236-7530

OCD Only

Received by: Jocelyn Harimon Date: 04/14/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: M 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,
- 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**

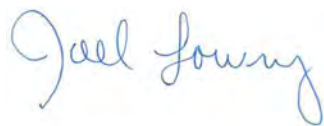
Prepared For:

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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INTRODUCTION & BACKGROUND INFORMATION

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

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

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

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

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

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

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

SITE CHARACTERIZATION AND WORKPLAN

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

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

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

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

SUMMARY OF SOIL REMEDIATION ACTIVITIES

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

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

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

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

On 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 poly-ethylene 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 water-packed 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

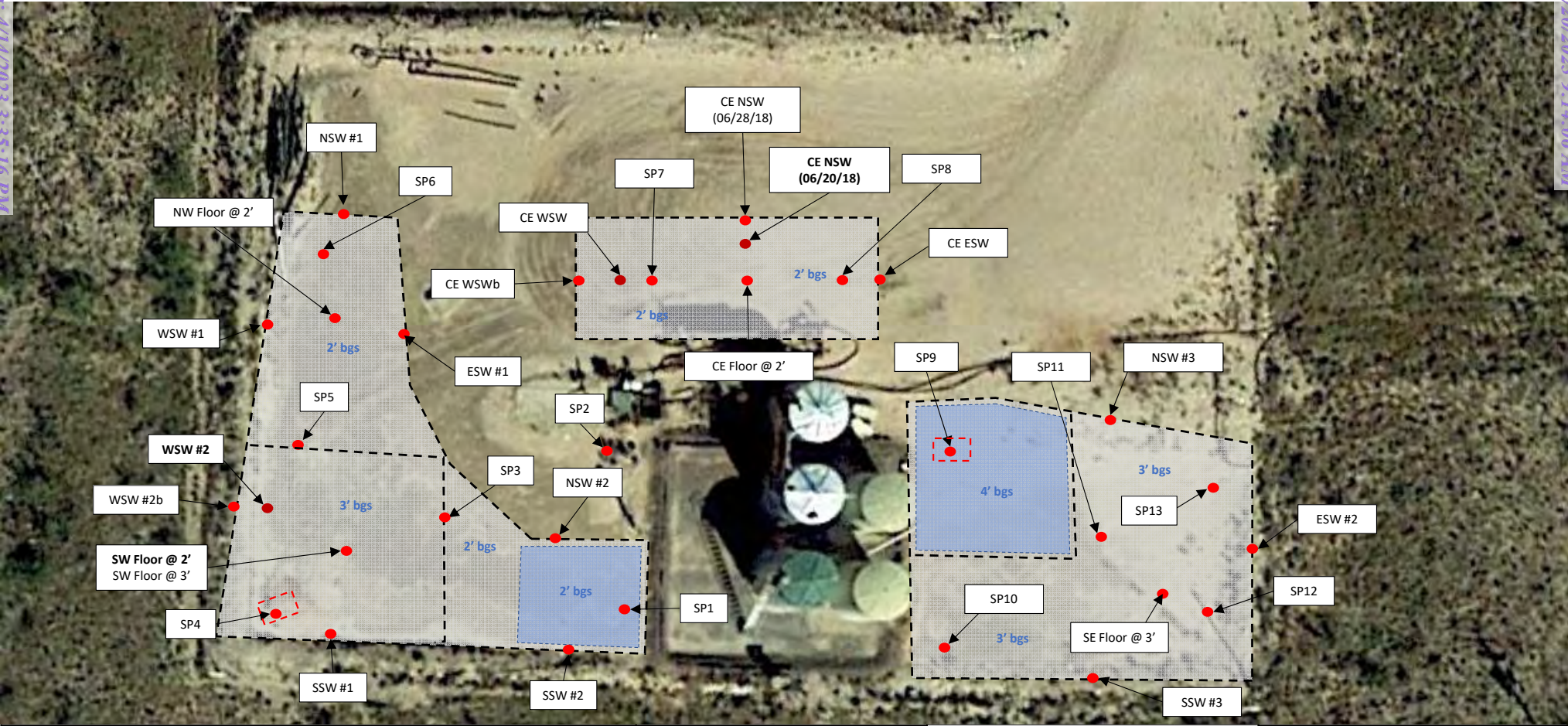


Figure 1
Site Location Map
Vanguard Operating, LLC
ABO SWD #2
Lea County, New Mexico

Scale 1" = ~12,000'	
Drafted by: BC	Checked by: JL
Draft: July 26, 2018	
Lat. N 32.868700 Long. W -103.326070	
UL "C", Sec. 2, T17S, R36E	
TRC Proj. No.: 299746	



2057 Commerce Drive
Midland, Texas 79703
432.520.7720








LEGEND:		Figure 2 Site & Sample Location Map Vanguard Operating, LLC ABO SWD #2 Lea Co, New Mexico	Scale 1" = ~40'		 2057 Commerce Drive Midland, Texas 79703 432.520.7720
 Sample Locations	 Lined Area		Drafted by: BC Checked by: JL		
 Excavated Area			Draft: July 26, 2018		
 Test Trench			Lat. N 32.868700 Long. W -103.326070		
			UL "C", Sec. 2, T17S, R36E		
			TRC Proj. No.: 299746		

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

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

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	METHODS: SW 846-8021b					METHOD: SW 8015M					E 300.1	SM4500C-B
			BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₂₈	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	-	-	256
SP5 (10')	06/20/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	64.0
SP6 (Surface)	06/20/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	6,250	-	6,250	-	-	640
SP6 (10')	06/20/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	48.0
SP7 (Surface)	06/20/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,870	-	1,870	-	-	21,600
SP7 (28')	06/20/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	16.0
SP8 (Surface)	06/20/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.6	-	25.6	-	-	640
SP8 (16')	06/20/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<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	-	<10.0	-	-	1,280
SP10 (Surface)	06/27/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	896
SP10 (26')	06/27/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	528
SP11 (Surface)	06/28/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.0	-	49.0	-	-	6,320
SP11 (18')	06/28/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	32.0
SP12 (Surface)	06/28/17	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
SP13 (Surface)	06/28/17	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.9	-	49.9	-	-	5,040
SP13 (14')	06/28/17	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	-	<10.0	-	-	160
SP-4 @ 3'	06/18/18	In-Situ	-	-	-	-	-	-	-	-	-	-	129	-
SP-4 @ 4'	06/18/18	In-Situ	-	-	-	-	-	-	-	-	-	-	137	-
SP-9 @ 5'	06/18/18	Risked	-	-	-	-	-	-	-	-	-	-	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')	06/20/18	In-Situ	-	-	-	-	-	<3.71	<25.2	<25.2	-	<25.2	229	-
CE WSW (1.5')	06/20/18	Excavated	-	-	-	-	-	<8.00	868	198	-	1,066	547	-
SSW #1 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.75	196	176	-	372	<25.0	-
SSW #2 (1.5')	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')	06/20/18	In-Situ	-	-	-	-	-	<3.77	249	126	-	375	93.4	-
WSW #2 (1.5')	06/20/18	Excavated	-	-	-	-	-	24.3	1,890	441	-	2,355.3	157	-
NSW #1 (1.5')	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')	06/20/18	In-Situ	-	-	-	-	-	<3.96	<25.0	<25.0	-	<25.0	447	-
ESW #2 (1.5')	06/20/18	In-Situ	-	-	-	-	-	<3.65	<24.8	<24.8	-	<24.8	545	-
NW Floor @ 2'	06/28/18	In-Situ	-	-	-	-	-	<15.0	92.6	26.7	-	119.3	154	-
SW Floor @ 2'	06/28/18	Excavated	-	-	-	-	-	19.3	3750	105	-	3874.3	436	-
CE Floor @ 2'	06/28/18	In-Situ	-	-	-	-	-	<15.0	24.8	<15.0	-	24.8	494	-
SE Floor @ 3'	06/28/18	In-Situ	-	-	-	-	-	<15.0	104	<15.0	-	104	412	-
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	-	-
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	600		



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/29/2017	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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 1 (26') (H701703-02)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	

Surrogate: 1-Chlorooctane 96.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	416	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	06/29/2017	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Daniel Dominguez
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 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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	96.0	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	06/29/2017	ND	184	91.9	200	1.76	
DRO >C10-C28	<10.0	10.0	06/29/2017	ND	180	90.2	200	3.77	

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Analytical Results For:

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 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 (SURFACE) (H701703-05)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/30/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 164 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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 3 (18') (H701703-06)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	112	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	06/29/2017	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.6 % 34.7-157

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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 4 (SURFACE) (H701703-07)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	464	16.0	06/30/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 524 % 34.7-157

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Analytical Results For:

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 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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	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	06/29/2017	ND	205	103	200	2.25	
DRO >C10-C28	647	10.0	06/29/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 82.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 115 % 34.7-157

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Analytical Results For:

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 Fax To: (505) 394-2601

Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	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	06/29/2017	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 122 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	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	06/29/2017	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 111 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<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	640	16.0	06/30/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 225 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<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	48.0	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 99.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Analytical Results For:

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	21600	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	1870	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 99.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 139 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	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 96.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/20/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	640	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	25.6	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 75.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 108 % 34.7-157

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Analytical Results For:

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Received:	06/28/2017	Sampling Date:	06/23/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 146 % 34.7-157

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Analytical Results For:

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 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)

BTX 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 BTX	<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 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Analytical Results For:

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Received:	06/28/2017	Sampling Date:	06/27/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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Received:	06/28/2017	Sampling Date:	06/27/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 BTX	<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	528	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 110 % 34.7-157

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Analytical Results For:

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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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	6320	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	49.0	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 97.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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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 11 (18') (H701703-22)

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) 102 % 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	32.0	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Analytical Results For:

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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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	06/30/2017	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	50.3	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 99.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 110 % 34.7-157

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Analytical Results For:

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Received:	06/28/2017	Sampling Date:	06/28/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ABO SWD #2	Sampling Condition:	Cool & Intact
Project Number:	UL-C SEC.2, T17S, R36E	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

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

BTX 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 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	205	103	200	2.25	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	222	111	200	2.84	

Surrogate: 1-Chlorooctane 91.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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)

BTX 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 BTX	<0.300	0.300	06/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	5040	16.0	06/30/2017	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	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 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 % 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	160	16.0	06/30/2017	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

Surrogate: 1-Chlorooctane 90.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

P.O. Box 1558, Eunice, NM 88231

Chain of Custody FormLAB **Cardinal****ANALYSIS REQUEST**

Bill To

Company Name Environmental Plus, Inc.

EPI Project Manager Daniel Dominguez

Mailing Address P.O. BOX 1558

City, State, Zip Eunice New Mexico 88231

EPI Phone#/Fax# 575-394-3481 / 575-394-2601

Client Company Vanguard

Facility Name ABO SWD #2

Location UL-C Sec. 2, T17S, R36E

Project Reference

EPI Sampler Name Dustin Crockett

Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231

LAB I.D.

SAMPLE I.D.

H701703

SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS																			
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
1 SP1 (Surface)	G	1			X					X		19-Jun-17		X	X	X					
2 SP1 (26')	G	1			X					X		19-Jun-17		X	X	X					
3 SP2 (Surface)	G	1			X					X		19-Jun-17		X	X	X					
4 SP2 (10')	G	1			X					X		19-Jun-17		X	X	X					
5 SP3 (Surface)	G	1			X					X		19-Jun-17		X	X	X					
6 SP3 (18')	G	1			X					X		19-Jun-17		X	X	X					
7 SP4 (Surface)	G	1			X					X		19-Jun-17		X	X	X					
8 SP4 (2')	G	1			X					X		19-Jun-17		X	X	X					
9 SP5 (Surface)	G	1			X					X		20-Jun-17		X	X	X					
10 SP5 (10')	G	1			X					X		20-Jun-17		X	X	X					

E-mail results to: ddominguezepi@gmail.com & cjohnston@vnrllc.com
& dboone.epi@gmail.com**NOTES:**

Sampler Relinquished:

Relinquished By:

Date 6-26-17

Time 6:00 am

Received By: (lab staff)

Date 6-26-17

Time 4:00

Sample Cool & Intact

Yes

Checked By:

Yes

#75 ~1.10

Environmental Plus, Inc.

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

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB

Cardinal

FAX: (575) 394-2601
(575) 394-3481

Company Name

Environmental Plus, Inc.

Bill To

ANALYSIS REQUEST

Page 30 of 31

(575) 394-3481 FAX: (575) 394-2601							Bill To		ANALYSIS REQUEST											
Company Name			Environmental Plus, Inc.																	
EPI Project Manager			Daniel Dominguez																	
Mailing Address			P.O. BOX 1558																	
City, State, Zip			Eunice New Mexico 88231																	
EPI Phone#/Fax#			575-394-3481 / 575-394-2601																	
Client Company			Vanguard																	
Facility Name			ABO SWD #2																	
Location			UL-C Sec. 2, T17S, R36E																	
Project Reference							Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231													
EPI Sampler Name			Dustin Crockett																	
LAB I.D.			SAMPLE I.D.																	
H7101703			(G)GRAB OR (C)OMP.																	
			# CONTAINERS	MATRIX						PRESERV.	SAMPLING	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ⁼)	pH	TCLP	OTHER >>>	PAH	
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME						
11	SP6 (Surface)	G	1	X		X					X		20-Jun-17		X	X	X			
12	SP6 (10')	G	1			X					X		20-Jun-17		X	X	X			
13	SP7 (Surface)	G	1			X					X		20-Jun-17		X	X	X			
14	SP7 (28')	G	1			X					X		20-Jun-17		X	X	X			
15	SP8 (Surface)	G	1			X					X		20-Jun-17		X	X	X			
16	SP8 (16')	G	1			X					X		23-Jun-17		X	X	X			
17	SP9 (Surface)	G	1			X					X		23-Jun-17		X	X	X			
18	SP9 (4')	G	1			X					X		23-Jun-17		X	X	X			
19																				
20																				

NOTES:

E-mail results to: ddominguezepi@gmail.com & cjohnston@vnrlc.com & bboone.epi@gmail.com

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB

Cardinal

(575) 394-3481 FAX: (575) 394-2601

Company Name Environmental Plus, Inc.

Bill To

ANALYSIS REQUEST

Page 31 of 31

(575) 394-3481 FAX: (575) 394-2601						Bill To		ANALYSIS REQUEST	
Company Name		Environmental Plus, Inc.							
EPI Project Manager		Daniel Dominguez							
Mailing Address		P.O. BOX 1558							
City, State, Zip		Eunice New Mexico 88231							
EPI Phone#/Fax#		575-394-3481 / 575-394-2601							
Client Company		Vanguard							
Facility Name		ABO SWD #2							
Location		UL-C Sec. 2, T17S, R36E							
Project Reference						Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231			
EPI Sampler Name		David Robinson							
LAB I.D.		SAMPLE I.D.							
H7D17D3				(G)RAB OR (C)OMP.					
		# CONTAINERS							
		GROUND WATER							
		WASTEWATER							
		SOIL							
		CRUDE OIL							
		SLUDGE							
		OTHER:							
		ACID/BASE							
		ICE/COOL							
		OTHER							
		DATE		TIME					
19 2T SP10 (Surface)		G	1	X		27-Jun-17		BTEX 8021B	X
20 2T SP10 (26')		G	1	X		27-Jun-17		TPH 8015M	X
21 2T SP11 (Surface)		G	1	X		28-Jun-17		CHLORIDES (Cl ⁻)	X
22 2T SP11 (18')		G	1	X		28-Jun-17		SULFATES (SO ₄ ⁼)	X
23 2T SP12 (Surface)		G	1	X		28-Jun-17		pH	X
24 2T SP12 (14')		G	1	X		28-Jun-17		TCLP	X
25 2T SP13 (Surface)		G	1	X		28-Jun-17		OTHER >>>	X
26 2T SP13 (14')		G	1	X		28-Jun-17		PAH	X
27 2T SP13 (14')		G	1	X		28-Jun-17			
28 2T SP13 (14')		G	1	X		28-Jun-17			
29									
30									
Sampler Relinquished:		Date 6-28-17		Receiver BY:		E-mail results to: ddominguezepi@gmail.com & cjohnston@vnrllc.com & bboone.epi@gmail.com			
Relinquished by:		Time 2:00 pm		Received By: (lab staff)		NOTES:			
Delivered by:		Sample Cool & Intact Yes		Checked By:					



Certificate of Analysis Summary 589613

TRC Solutions, Inc, Midland, TX

Project Name: ABO SWD 2



Project Id:

Contact: Joel Lowry

Project Location:

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

Report Date: 26-JUN-18

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	589613-001	589613-002	589613-003	589613-004		
	Field Id:	SP-4 @3'	SP-4 @4'	SP-9 @5'	SP-9 @6'		
	Depth:	3- ft	4- ft	5- ft	6- ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Jun-18-18 07:00	Jun-18-18 07:10	Jun-18-18 08:00	Jun-18-18 08:10		
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 13:02	Jun-22-18 14:23	Jun-22-18 16:12	Jun-22-18 16:34		
	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,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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

**Sample Cross Reference 589613****TRC Solutions, Inc, Midland, TX**

ABO SWD 2

Sample Id	Matrix	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:

Work Order Number(s): 589613

Report Date: 26-JUN-18

Date Received: 06/19/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 589613

TRC Solutions, Inc, Midland, TX
ABO SWD 2Sample Id: **SP-4 @3'**
Lab Sample Id: 589613-001Matrix: Soil
Date Collected: 06.18.18 07.00Date Received: 06.19.18 10.15
Sample Depth: 3 ftAnalytical Method: Chloride by EPA 300
Tech: SCM
Analyst: SCM
Seq Number: 3054467Prep Method: E300P
% Moisture:
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



Certificate of Analytical Results 589613

TRC Solutions, Inc, Midland, TX

ABO SWD 2

Sample Id: **SP-4 @4'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589613-002

Date Collected: 06.18.18 07.10

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 11.00

Basis: Wet Weight

Seq Number: 3054467

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



Certificate of Analytical Results 589613

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

Seq Number: 3054471

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



Certificate of Analytical Results 589613

TRC Solutions, Inc, Midland, TX
ABO SWD 2Sample 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

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 15.15

Basis: Wet Weight

Seq Number: 3054471

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.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



TRC Solutions, Inc
ABO SWD 2

Analytical Method: Chloride by EPA 300

Seq Number: 3054467

MB Sample Id: 7657167-1-BLK

Matrix: Solid

LCS Sample Id: 7657167-1-BKS

Prep Method: E300P

Date Prep: 06.22.18

LCSD Sample Id: 7657167-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	258	103	90-110	1	20	mg/kg	06.22.18 12:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3054471

MB Sample Id: 7657168-1-BLK

Matrix: Solid

LCS Sample Id: 7657168-1-BKS

Prep Method: E300P

Date Prep: 06.22.18

LCSD Sample Id: 7657168-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	258	103	90-110	2	20	mg/kg	06.22.18 16:02	

Analytical Method: Chloride by EPA 300

Seq Number: 3054467

Parent Sample Id: 589613-001

Matrix: Soil

MS Sample Id: 589613-001 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589613-001 SD

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

Analytical Method: Chloride by EPA 300

Seq Number: 3054467

Parent Sample Id: 589613-002

Matrix: Soil

MS Sample Id: 589613-002 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589613-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	137	248	374	96	372	95	90-110	1	20	mg/kg	06.22.18 14:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3054471

Parent Sample Id: 589613-003

Matrix: Soil

MS Sample Id: 589613-003 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589613-003 SD

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

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

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

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



TRC Solutions, Inc
ABO SWD 2

Analytical Method: Chloride by EPA 300

Seq Number: 3054471

Parent Sample Id: 589731-004

Matrix: Soil

MS Sample Id: 589731-004 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589731-004 SD

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

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

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

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

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

XENCO
Laboratories

☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West 1-20 East, Odessa, TX 79765 432-563-1800

Serial #: 330918 Page of

Company City		Phone	
XENCO SOLUTIONS		432-466-4450	
Project Name-Location		Project ID	
ABO SUB 2		Previously done at XENCO	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM)	
E-mail Results to		Fax No:	
ZCORP@ZCORP.COM		JOC LOUISY	
Invoice to <input type="checkbox"/> Accounting <input type="checkbox"/> Inc. Invoice with Final Report <input type="checkbox"/> Invoice must have a P.O.		Bill to: VAUGHAN OPERATIONS INC 96 CHUCK JONES RD	
Quote/Pricing:		P.O. No:	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP		<input type="checkbox"/> Call for P.O.	
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:			
Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)			
Sampler Name	Signature		
BECKY BRITTON	[Signature]		
Sample ID	Sampling Date	Time	Depth ft' in" m
1 SP-403'	6-18-18	7:00	3'3"
2 SP-404'	6-18-18	7:10	4'3"
3 SP-905'	6-18-18	8:00	5'3"
4 SP-906'	6-18-18	8:10	6'3"
5			
6			
7			
8			
9			
10			
Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) [Signature]	6-18-18 10:24	2) [Signature]	6-18-18 10:28
3) [Signature]	6-18-18 3:35	4) [Signature]	6-19-18 10:15
5)		6)	
Preservatives		VOA: Full-List BTEX-MTBE EtOH Oxyg VOAs 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: 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 Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
		Addn: PAH above mg/L W, mg/Kg S Highest Hit	
		Hold Samples (Surcharges will apply and are pre-approved)	
		Sample Clean-ups are pre-approved as needed	
		Remarks	
		Addn: Date Rcv. by: From:	

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool <4C) (C), None (NA), See Label (L), Other (O)
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)
 Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

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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ORIGIN ID: H0BA (5/5) 392-7550

**
MAIL SERVICES ETC, LLC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP
ACTWG
CAD:
DIMS:
BILL RTO XENCO LABORATORIES
XENCO LABORATORIES
1211 W FLORIDA AVE

MIDLAND TX 79701

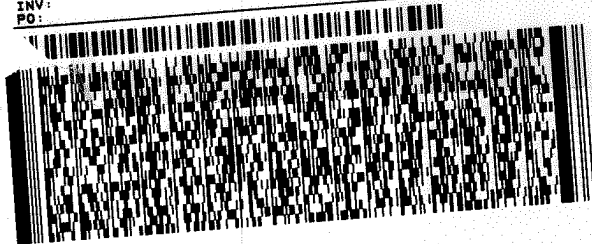
(432) 563-1800

REF:

DEPT:

INV:

PD:

FedEx
Express

J171016102001UV

TRK#
0201

6606 3917 1287

TUE - 19 JUN 10:30A
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB

Part # 156148-434 RRD 09/16





Client: TRC Solutions, Inc

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

Work Order #: 589613

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 06/19/2018

Checklist reviewed by:

Kelsey Brooks

Date: 06/20/2018



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

<i>Analysis Requested</i>	<i>Lab Id:</i>	590084-001	590084-002	590084-003	590084-004	590084-005	590084-006
	<i>Field Id:</i>	CE NSW	CE ESW	CE WSW	SSW #1	SSW #2	SSW #3
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00
Chloride by EPA 300	<i>Extracted:</i>	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30
	<i>Analyzed:</i>	Jun-26-18 15:08	Jun-26-18 15:20	Jun-26-18 15:33	Jun-26-18 15:45	Jun-26-18 15:57	Jun-26-18 16:10
	<i>Units/RL:</i>	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	<i>Extracted:</i>	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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.	<i>Extracted:</i>	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00
	<i>Analyzed:</i>	Jun-26-18 04:02	Jun-26-18 04:30	Jun-26-18 10:53	Jun-26-18 04:58	Jun-26-18 02:11	Jun-26-18 05:25
	<i>Units/RL:</i>	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
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

<i>Analysis Requested</i>	<i>Lab Id:</i>	590084-007	590084-008	590084-009	590084-010	590084-011	590084-012
	<i>Field Id:</i>	WSW #1	WSW #2	NSW #1	NSW #2	NSW #3	ESW #1
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00	Jun-20-18 00:00
Chloride by EPA 300	<i>Extracted:</i>	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30	Jun-26-18 08:30
	<i>Analyzed:</i>	Jun-26-18 16:22	Jun-26-18 16:35	Jun-26-18 17:00	Jun-26-18 17:49	Jun-26-18 18:02	Jun-26-18 18:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		93.4 25.0	157 25.0	491 D 125	128 25.0	183 25.0	447 125
DRO-ORO By SW8015B	<i>Extracted:</i>	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30	Jun-26-18 13:30
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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.	<i>Extracted:</i>	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00	Jun-25-18 13:00
	<i>Analyzed:</i>	Jun-26-18 05:52	Jun-26-18 11:20	Jun-26-18 06:19	Jun-26-18 06:47	Jun-26-18 07:14	Jun-26-18 09:04
	<i>Units/RL:</i>	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

Analysis Requested	Lab Id:	590084-013					
	Field Id:	ESW #2					
	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					

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
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,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', is written over a horizontal line.

Kelsey Brooks

Project Manager

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

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

**Sample Cross Reference 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:

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.



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **CE NSW**
Lab Sample Id: 590084-001

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	629	125	mg/kg	06.26.18 15.08		5

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94	mg/kg	06.26.18 04.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	76-123	06.26.18 04.02	
a,a,a-Trifluorotoluene	98-08-8	89	%	69-120	06.26.18 04.02	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: CE ESW

Matrix: Soil

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

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	229	25.0	mg/kg	06.26.18 15.20		1

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 06.26.18 13.30

Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.2	25.2	mg/kg	06.26.18 20.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.2	25.2	mg/kg	06.26.18 20.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	99	%	65-144	06.26.18 20.07	
n-Triacontane	638-68-6	90	%	46-152	06.26.18 20.07	

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.25.18 13.00

Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.71	3.71	mg/kg	06.26.18 04.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	76-123	06.26.18 04.30	
a,a,a-Trifluorotoluene	98-08-8	92	%	69-120	06.26.18 04.30	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: CE WSW

Matrix: Soil

Date Received: 06.22.18 17.25

Lab Sample Id: 590084-003

Date Collected: 06.20.18 00.00

Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.26.18 08.30

Basis: Wet Weight

Seq Number: 3054680

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	547	50.0	mg/kg	06.26.18 15.33		2

Analytical Method: DRO-ORO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 06.26.18 13.30

Basis: Wet Weight

Seq Number: 3054675

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	868	126	mg/kg	06.26.18 22.00		5
Oil Range Hydrocarbons (ORO)	PHCG2835	198	126	mg/kg	06.26.18 22.00		5

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

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.25.18 13.00

Basis: Wet Weight

Seq Number: 3054610

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **SSW #1**
Lab Sample Id: 590084-004

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **SSW #2**
Lab Sample Id: 590084-005

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.90	3.90	mg/kg	06.26.18 02.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	46	%	76-123	06.26.18 02.11	**
a,a,a-Trifluorotoluene	98-08-8	65	%	69-120	06.26.18 02.11	**



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **SSW #3**
Lab Sample Id: 590084-006

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: 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	460-00-4	92	%	76-123	06.26.18 05.25	
a,a,a-Trifluorotoluene	98-08-8	81	%	69-120	06.26.18 05.25	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **WSW #1**
Lab Sample Id: 590084-007

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: 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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **WSW #2**
Lab Sample Id: 590084-008

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: 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	460-00-4	82	%	76-123	06.26.18 11.20	
a,a,a-Trifluorotoluene	98-08-8	90	%	69-120	06.26.18 11.20	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **NSW #1**
Lab Sample Id: 590084-009

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: 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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **NSW #2**
Lab Sample Id: 590084-010

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: 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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **NSW #3**
Lab Sample Id: 590084-011

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% 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	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **ESW #1**
Lab Sample Id: 590084-012

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

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

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.27.18 03.39	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	06.27.18 03.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	06.27.18 03.39	
n-Triacontane	638-68-6	100	%	46-152	06.27.18 03.39	

Analytical Method: TPH GRO by EPA 8015 Mod.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.96	3.96	mg/kg	06.26.18 09.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	76-123	06.26.18 09.04	
a,a,a-Trifluorotoluene	98-08-8	94	%	69-120	06.26.18 09.04	



Certificate of Analytical Results 590084

TRC Solutions, Inc, Midland, TX

Abo SWD

Sample Id: **ESW #2**
Lab Sample Id: 590084-013

Matrix: Soil
Date Collected: 06.20.18 00.00

Date Received: 06.22.18 17.25
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3054680

Date Prep: 06.26.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	545	125	mg/kg	06.26.18 18.26		5

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3054675

Date Prep: 06.26.18 13.30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

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.

Tech: MIT

Analyst: MIT

Seq Number: 3054610

Date Prep: 06.25.18 13.00

Prep Method: SW5030B

% 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.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



TRC Solutions, Inc
Abo SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3054680

MB Sample Id: 7657385-1-BLK

Matrix: Solid

LCS Sample Id: 7657385-1-BKS

Prep Method: E300P

Date Prep: 06.26.18

LCSD Sample Id: 7657385-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	254	102	257	103	90-110	1	20	mg/kg	06.26.18 13:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3054680

Parent Sample Id: 589735-001

Matrix: Soil

MS Sample Id: 589735-001 S

Prep Method: E300P

Date Prep: 06.26.18

MSD Sample Id: 589735-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	281	112	279	112	80-120	1	20	mg/kg	06.26.18 14:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3054680

Parent Sample Id: 590084-009

Matrix: Soil

MS Sample Id: 590084-009 S

Prep Method: E300P

Date Prep: 06.26.18

MSD Sample Id: 590084-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	513	250	1820	523	1800	515	80-120	1	20	mg/kg	06.26.18 17:24	X

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3054675

MB Sample Id: 7657369-1-BLK

Matrix: Solid

LCS Sample Id: 7657369-1-BKS

Prep Method: SW8015P

Date Prep: 06.26.18

LCSD Sample Id: 7657369-1-BSD

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

Surrogate

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

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

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

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

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



TRC Solutions, Inc
Abo SWD

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3054675

Parent Sample Id: 590084-002

Matrix: Soil

MS Sample Id: 590084-002 S

Prep Method: SW8015P

Date Prep: 06.26.18

MSD Sample Id: 590084-002 SD

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

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tricosane	112		110		65-144	%	06.26.18 20:46
n-Triacontane	100		92		46-152	%	06.26.18 20:46

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3054610

MB Sample Id: 7657268-1-BLK

Matrix: Solid

LCS Sample Id: 7657268-1-BKS

Prep Method: SW5030B

Date Prep: 06.25.18

LCSD Sample Id: 7657268-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	21.8	109	21.9	110	35-129	0	20	mg/kg	06.26.18 13:10	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
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.

Seq Number: 3054610

Parent Sample Id: 590084-005

Matrix: Soil

MS Sample Id: 590084-005 S

Prep Method: SW5030B

Date Prep: 06.25.18

MSD Sample Id: 590084-005 SD

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

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	115		104		76-123	%	06.26.18 02:39
a,a,a-Trifluorotoluene	86		73		69-120	%	06.26.18 02:39

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

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

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

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

CHAIN OF CUSTODY

Page 2 of 2

Phoenix, Arizona (480-355-0900)

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

www.xenco.com

Xenco Quote # 590075-590084

Xenco Job # 590075-590084

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes				
Company Name / Branch: TRC Environmental Corporation				Project Name/Number: Abo SWD												
Company Address: 10 Dista Dr, Suite 150E Midland, TX 79705				Project Location: Lea County												
Email: lowry@trcsolutions.com				Invoices To: Vanguard CO Chuck Johnston												
Phone No: 432-466-4450				Invoice:												
Project Contact: Joel Lowry																
Sampler's Name:																
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn	Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	NSW #3	1.5'	6/20/2018		S											
2	ESW #1	1.5'	6/20/2018		S											
3	ESW #2	1.5'	6/20/2018		S											
4																
5																
6																
7																
8																
9																
10																
Turnaround Time (Business days)																
<input type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pkg / raw data) <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> Contract TAT <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG -411 <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist																
TAT Starts Day received by Lab, if received by 5:00 pm																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																
Relinquished by Sampler: <i>Joel Lowry</i> Received By: <i>Joel Lowry</i> Date Time: 6/20/18 5:25																
Relinquished by: <i>Joel Lowry</i> Received By: <i>Joel Lowry</i> Date Time: 6/20/18 5:25																
Relinquished by: <i>Joel Lowry</i> Received By: <i>Joel Lowry</i> Date Time: 6/20/18 5:25																
Relinquished by: <i>Joel Lowry</i> Received By: <i>Joel Lowry</i> Date Time: 6/20/18 5:25																
On Ice Cooler Temp. Thermo. Corr. Factor 17 3.9 JH-3																

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



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

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

Work Order #: 590084

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist**Comments**

#1 *Temperature of cooler(s)?	3.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#: IR-3

Checklist completed by:

Brenda Ward

Date: 06/22/2018

Checklist reviewed by:

Kelsey Brooks

Date: 06/22/2018



Certificate of Analysis Summary 591008

TRC Solutions, Inc, Midland, TX

Project Name: Vanguard Abo SWD #2



Project Id:

Contact: Joel Lowry

Project Location: Lea County, NM

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

Report Date: 09-JUL-18

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	591008-001	591008-002	591008-003			
	Field Id:	WSW #2b	CE WSWb	CE NSW			
	Depth:	1-	1-	1-			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jun-28-18 07:45	Jun-28-18 07:50	Jun-28-18 07:55			
Chloride by EPA 300	Extracted:			Jul-05-18 15:00			
	Analyzed:			Jul-05-18 21:32			
	Units/RL:			mg/kg RL			
Chloride				342 4.93			
TPH by SW8015 Mod	Extracted:	Jul-06-18 10:00	Jul-06-18 10:00				
	Analyzed:	Jul-06-18 19:19	Jul-06-18 19:39				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		<15.0 15.0	131 15.0				
Oil Range Hydrocarbons (ORO)		<15.0 15.0	24.1 15.0				
Total TPH		<15 15	155.1 15				

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

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

Kelsey Brooks
Project Manager

Analytical Report 591008

for
TRC Solutions, Inc

Project Manager: Joel Lowry

Vanguard Abo SWD #2

09-JUL-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



09-JUL-18

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

Reference: XENCO Report No(s): **591008**
Vanguard Abo SWD #2
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591008. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 591008 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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

**Sample Cross Reference 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:
Work Order Number(s): 591008

Report Date: 09-JUL-18
Date Received: 06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 591008

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

Seq Number: 3055781

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		



Certificate of Analytical Results 591008



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:

Analyst: ARM

Date Prep: 07.06.18 10.00

Basis: Wet Weight

Seq Number: 3055781

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		



Certificate of Analytical Results 591008

TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id: CE NSW

Matrix: Soil

Date Received: 06.30.18 09.00

Lab Sample Id: 591008-003

Date Collected: 06.28.18 07.55

Sample Depth: 1

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 07.05.18 15.00

Basis: Wet Weight

Seq Number: 3055723

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



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



TRC Solutions, Inc
Vanguard Abo SWD #2

Analytical Method: Chloride by EPA 300

Seq Number: 3055723

MB Sample Id: 7657872-1-BLK

Matrix: Solid

LCS Sample Id: 7657872-1-BKS

Prep Method: E300P

Date Prep: 07.05.18

LCSD Sample Id: 7657872-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	232	93	235	94	90-110	1	20	mg/kg	07.05.18 19:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3055723

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

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

Parent Sample Id: 591006-007

Matrix: Soil

MS Sample Id: 591006-007 S

Prep Method: E300P

Date Prep: 07.05.18

MSD Sample Id: 591006-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.1	245	266	97	265	96	90-110	0	20	mg/kg	07.05.18 20:54	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055781

MB Sample Id: 7657983-1-BLK

Matrix: Solid

LCS Sample Id: 7657983-1-BKS

Prep Method: TX1005P

Date Prep: 07.06.18

LCSD Sample Id: 7657983-1-BSD

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

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

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

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

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

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



TRC Solutions, Inc
Vanguard Abo SWD #2

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055781

Parent Sample Id: 590704-001

Matrix: Soil

MS Sample Id: 590704-001 S

Prep Method: TX1005P

Date Prep: 07.06.18

MSD Sample Id: 590704-001 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

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

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

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

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

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

CHAIN OF CUSTODY

Client / Reporting Information						Project Information						Analytical Information						Matrix Codes							
Company Name / Branch: TBC Environmental Corporation						Project Name/Number: Vanguard Abo SWD #2																			
Company Address: 10 Daria Dr. Suite 150E Midland, TX 79705						Project Location: Leas County, NM																			
Email: jlowry@tbc-solutions.com						Phone No: 432-466-4450						Invoices To: Vanguard, CO Chuck Johnston													
Project Contact: Joel Lowry						Invoices:																			
Sampler's Name:																									
No.	Field ID / Point of Collection					Collection		# of bottles		Number of preserved bottles															
	Sample Depth	Date	Time	Matrix	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE													
1	WSW #2b	1	6/28/2018	7:45	s	1											TPH TX1005								
2	CE WSWb	1	6/28/2018	7:50	s	1											Chloride E 300								
3	CE NSW	1	6/28/2018	7:55	s	1											NORM								
4																	RCI								
5																	TCLP Benzene								
6																	TCLP RCRA 8 Metals								
7																	Chloride								
8																	TPH 8015 M Ext (NM)								
9																									
10																									
Turnaround Time (Business days)						Data Deliverable Information						Notes:													
<input type="checkbox"/> Same Day TAT						<input type="checkbox"/> Level II Std QC						<input type="checkbox"/> Level IV (Full Data Pkg /raw data)						lowry@tbc-solutions.com							
<input type="checkbox"/> Next Day EMERGENCY						<input type="checkbox"/> 7 Day TAT						<input type="checkbox"/> Level III Std QC+ Forms						<input type="checkbox"/> TRRP Level IV						zcoonder@tbc-solutions.com	
<input type="checkbox"/> 2 Day EMERGENCY						<input checked="" type="checkbox"/> Contract TAT						<input type="checkbox"/> Level 3 (CLP Forms)						<input type="checkbox"/> UST / RG -411						beooper@tbc-solutions.com	
<input type="checkbox"/> 3 Day EMERGENCY												<input type="checkbox"/> TRRP Checklist													
TAT Starts Day received by Lab, if received by 5:00 pm																		FED-EX / UPS: Tracking # 66603077364							
Relinquished by Sampler:																		Date Time: 6/29-18 3:12							
Relinquished By: [Signature]																		Received By: [Signature]							
Relinquished by:																		Date Time: 6-29-18 3:12							
Relinquished By: [Signature]																		Received By: [Signature]							
Relinquished by:																		Date Time: 6-30-18							
Relinquished By: [Signature]																		Received By: [Signature]							
Custody Seal #																		Preserved where applicable							
On Ice																		Cooler Temp.							
Thermo Corr. Factor																		900							
D.O.I.																		R&B 0.0							



Client: TRC Solutions, Inc

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

Work Order #: 591008

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/02/2018

Checklist reviewed by:

Kelsey Brooks

Date: 07/03/2018



Certificate of Analysis Summary 591014

TRC Solutions, Inc, Midland, TX

Project Name: Vanguard Abo SWD #2

Project Id:

Contact: Joel Lowry

Project Location: Lea County, NM

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

Report Date: 10-JUL-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	591014-001	591014-002	591014-003	591014-004		
	<i>Field Id:</i>	NW Floor @2'	SW Floor @2'	CE Floor @2'	SE Floor @3'		
	<i>Depth:</i>	2- ft	2- ft	2- ft	3- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jun-28-18 09:10	Jun-28-18 09:15	Jun-28-18 09:20	Jun-28-18 09:25		
Chloride by EPA 300	<i>Extracted:</i>	Jul-05-18 16:30	Jul-05-18 16:30	Jul-05-18 16:30	Jul-05-18 16:30		
	<i>Analyzed:</i>	Jul-05-18 22:32	Jul-05-18 22:48	Jul-05-18 22:53	Jul-05-18 22:59		
	<i>Units/RL:</i>	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	<i>Extracted:</i>	Jul-07-18 08:00	Jul-07-18 08:00	Jul-07-18 08:00	Jul-07-18 08:00		
	<i>Analyzed:</i>	Jul-07-18 15:25	Jul-08-18 08:30	Jul-07-18 16:04	Jul-08-18 09:28		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	19.3 15.0	<15.0 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		92.6 15.0	3750 15.0	24.8 15.0	104 15.0		
Oil Range Hydrocarbons (ORO)		26.7 15.0	105 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		119.3 15	3874.3 15	24.8 15	104 15		

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

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

Kelsey Brooks
Project Manager

Analytical Report 591014

for
TRC Solutions, Inc

Project Manager: Joel Lowry

Vanguard Abo SWD #2

10-JUL-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

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

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



10-JUL-18

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

Reference: XENCO Report No(s): **591014**
Vanguard Abo SWD #2
Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591014. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 591014 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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

**Sample Cross Reference 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:
Work Order Number(s): 591014

Report Date: 10-JUL-18
Date Received: 06/30/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 591014



TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id: **NW Floor @2'**

Matrix: Soil

Date Received: 06.30.18 09.00

Lab Sample Id: 591014-001

Date Collected: 06.28.18 09.10

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

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	154	4.97	mg/kg	07.05.18 22.32		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.07.18 08.00

Basis: Wet Weight

Seq Number: 3055921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.07.18 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	



Certificate of Analytical Results 591014

TRC Solutions, Inc, Midland, TX

Vanguard Abo SWD #2

Sample Id: **SW Floor @2'**

Matrix: Soil

Date Received: 06.30.18 09.00

Lab Sample Id: 591014-002

Date Collected: 06.28.18 09.15

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 07.05.18 16.30

Basis: Wet Weight

Seq Number: 3055724

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	436	5.00	mg/kg	07.05.18 22.48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.07.18 08.00

Basis: Wet Weight

Seq Number: 3055921

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

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	494	4.97	mg/kg	07.05.18 22.53		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.07.18 08.00

Basis: Wet Weight

Seq Number: 3055921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.07.18 16.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.8	15.0	mg/kg	07.07.18 16.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.07.18 16.04	U	1
Total TPH	PHC635	24.8	15	mg/kg	07.07.18 16.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	07.07.18 16.04	
o-Terphenyl	84-15-1	100	%	70-135	07.07.18 16.04	



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

Tech: ARM

% Moisture:

Analyst: 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



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



TRC Solutions, Inc
Vanguard Abo SWD #2

Analytical Method: Chloride by EPA 300

Seq Number: 3055724

MB Sample Id: 7657873-1-BLK

Matrix: Solid

LCS Sample Id: 7657873-1-BKS

Prep Method: E300P

Date Prep: 07.05.18

LCSD Sample Id: 7657873-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	236	94	244	98	90-110	3	20	mg/kg	07.05.18 22:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3055724

Parent Sample Id: 591014-001

Matrix: Soil

MS Sample Id: 591014-001 S

Prep Method: E300P

Date Prep: 07.05.18

MSD Sample Id: 591014-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
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: 3055724

Parent Sample Id: 591015-007

Matrix: Soil

MS Sample Id: 591015-007 S

Prep Method: E300P

Date Prep: 07.05.18

MSD Sample Id: 591015-007 SD

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

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055921

MB Sample Id: 7658081-1-BLK

Matrix: Solid

LCS Sample Id: 7658081-1-BKS

Prep Method: TX1005P

Date Prep: 07.07.18

LCSD Sample Id: 7658081-1-BSD

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

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

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

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

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

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



TRC Solutions, Inc
Vanguard Abo SWD #2

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055921

Parent Sample Id: 591015-001

Matrix: Soil

MS Sample Id: 591015-001 S

Prep Method: TX1005P

Date Prep: 07.07.18

MSD Sample Id: 591015-001 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	998	970	97	949	95	70-135	2	20	mg/kg	07.07.18 11:09	
Diesel Range Organics (DRO)	59.6	998	1080	102	1060	100	70-135	2	20	mg/kg	07.07.18 11:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		115		70-135	%	07.07.18 11:09
o-Terphenyl	105		107		70-135	%	07.07.18 11:09

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

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

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

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

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes																	
Company Name / Branch: TRC Environmental Corporation				Project Name/Number: Vanguard Abo SWD #2																									
Company Address: 10 Delta Dr. Suite 150E Midland, TX 79705				Project Location: Lea County, NM																									
Email: jlowry@trcsolutions.com				Phone No: 432-466-4450				Invoice To: Vanguard, CO Chuck Johnston																					
Project Contact: Joel Lowry				Invoice:																									
Sample's Name:																													
No.		Field ID / Point of Collection		Collection		Number of preserved bottles		TPH TX1005		Chloride E 300		NORM		RCI		TCLP Benzene		TCLP RCRA 8 Metals		Chloride		TPH 8015 M Ext (NM)							
1		NW Floor @ 2'		Sample Depth		Date		Time		Matrix		# of bottles		HCl		NaOH/Zn Acetate		HNO3		H2SO4		NaOH		NaHSO4		MEOH		NONE	
2		SW Floor @ 2'		2'		6/28/2018		9:10		s		1																	
3		CE Floor @ 2'		2'		6/28/2018		9:15		s		1																	
4		SE Floor @ 3'		3'		6/28/2018		9:25		s		1																	
5																													
6																													
7																													
8																													
9																													
10																													
Turnaround Time (Business days)				Data Deliverable Information				Notes:																					
<input type="checkbox"/> Same Day TAT				<input type="checkbox"/> 5 Day TAT				<input type="checkbox"/> Level II Std OC				<input type="checkbox"/> Level IV (Full Data Pkg / raw data)				jlowry@trcsolutions.com													
<input type="checkbox"/> Next Day EMERGENCY				<input type="checkbox"/> 7 Day TAT				<input type="checkbox"/> Level III Std OC + Forms				<input type="checkbox"/> TRRP Level IV				zcoonder@trcsolutions.com													
<input type="checkbox"/> 2 Day EMERGENCY				<input checked="" type="checkbox"/> Contract TAT				<input type="checkbox"/> Level 3 (CLP Forms)				<input type="checkbox"/> UST / RG -411				bcooper@trcsolutions.com													
<input type="checkbox"/> 3 Day EMERGENCY								<input type="checkbox"/> TRRP Checklist																					
TAT Starts Day received by Lab, if received by 5:00 pm																													
Relinquished by Sampler:				SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY				FED-EX / UPS: Tracking #				66063972364																	
Relinquished by:				Date Time:				Received By:				Date Time:				Relinquished By:				Date Time:									
1. jlowry				6/29 11:21				1. B. Cooper				6-29-18 3:18				2. B. Cooper				6-29-18 3:18									
3.				Date Time:				Received By:				Date Time:				Relinquished By:				Date Time:									
Relinquished by:				Date Time:				Received By:				Date Time:				Relinquished By:				Date Time:									
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5.				Date Time:				Received By:				Date Time:				Relinquished By:													



Client: TRC Solutions, Inc

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

Work Order #: 591014

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/02/2018

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

Analysis Requested	Lab Id:	592670-001					
	Field Id:	SW Floor					
	Depth:	3- ft					
	Matrix:	SOIL					
	Sampled:	Jul-17-18 10:30					
TPH by SW8015 Mod	Extracted:	Jul-19-18 12:00					
	Analyzed:	Jul-19-18 16:49					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9					
Diesel Range Organics (DRO)		<14.9 14.9					
Oil Range Hydrocarbons (ORO)		<14.9 14.9					
Total TPH		<14.9 14.9					

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

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

Kelsey Brooks
Project Manager

Analytical Report 592670

for
TRC Solutions, Inc

Project Manager: Joel Lowry

ABO SWD #2

20-JUL-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



20-JUL-18

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

Reference: XENCO Report No(s): **592670**
ABO SWD #2
Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 592670. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 592670 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 592670

TRC Solutions, Inc, Midland, TX

ABO SWD #2

Sample Id	Matrix	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:

Work Order Number(s): 592670

Report Date: 20-JUL-18

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

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

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: 07.19.18 12.00

Basis: **Wet Weight**

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



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



TRC Solutions, Inc
ABO SWD #2

Analytical Method: TPH by SW8015 Mod

Seq Number: 3057120

MB Sample Id: 7658750-1-BLK

Matrix: Solid

LCS Sample Id: 7658750-1-BKS

Prep Method: TX1005P

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

Analytical Method: TPH by SW8015 Mod

Seq Number: 3057120

Parent Sample Id: 592471-001

Matrix: Soil

MS Sample Id: 592471-001 S

Prep Method: TX1005P

Date Prep: 07.19.18

MSD Sample Id: 592471-001 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	998	912	91	923	92	70-135	1	20		mg/kg	07.19.18 14:09	
Diesel Range Organics (DRO)	<15.0	998	941	94	957	96	70-135	2	20		mg/kg	07.19.18 14:09	

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

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

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

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

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-904873
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010DSI

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CKJDate: 6-30-18NAME OF TRANSPORTER: (DRIVER)

m mata Trucking
#39 20 yard

Name: Juan GalavizSignature: JGDate: 6/21/18DISPOSAL SITE:

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

Signature: JMDate: 6/22/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PQ #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-904874
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010DSQ

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: *CK Johnston*Date: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Bolly Dump
Truck # 450

Name: *Jalo*Signature: *EV*Date: 6-21-18DISPOSAL SITE:

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

Signature: *T. Martinez*Date: 6/22/18

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



Permian Basin

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 #: 700-904876
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010DSZ

6/22/18

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER (DRIVER)

m mata Trucking Adrian G
#39 20 yard
Truck #12

Name: ~~John Johnston~~

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI6830
 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 #: 700-804911
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

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

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☐ 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: _____

t6UJ9A010DWE

6/22/21

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: Chuck JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

m mata Trucking
#39 20 yard

Name: Juan GalavizSignature: [Signature]Date: 6/21/18DISPOSAL SITE:

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

Signature: [Signature]Date: 6/22/18

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



Permian Basin

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 #: 700-904913
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Contaminated Soil (RCRA Exempt)

Quantity Units

20.00 yards

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

IGUJ9A010DWH

6-22-18



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-904916
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

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☐ 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: _____

ISUJ9A010DWN

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # ~~150~~
38

Name: Labo SamSignature: E-TDate: 6-21-18DISPOSAL SITE:

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

Signature: JM MartinezDate: 6/28/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: *CK Johnston*Date: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA Trucking
Bolly DUMP
Truck # 150

Name: *Jalo*Signature: *EV*Date: 6-21-18DISPOSAL SITE:

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

Signature: *T. Martinez*Date: 6/22/18

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



Permian Basin

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 #: 700-904919
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

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☐ 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: _____

16UJ9A010DWV

6/22/2018

ENVIRONMENTAL
SOLUTIONS

Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-905527
 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	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:

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☐ 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: _____

16UJ9A010FCX

6/25/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

m mata Trucking
#39 20 yard

Name: Juan Galaviz

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/22/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: ADRIAN
 Truck #: 12
 Card #
 Job Ref #

Ticket #: 700-905528
 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	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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010FDC

6/25/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER (DRIVER)

~~#39~~ 20 yard
Truck #12
M Mata Trucking Adrian G

Name: Adrian G

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 310396
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: LALO
 Truck #: 150
 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	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:

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☐ 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: _____

t6UJ9A010FE3

6/25/2018 4:41



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

Company Man Contact Information
Name Chuck Johnston

Phone No. _____

GENERATOR

NO. 310396

Operator No. _____

Operators Name _____

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well _____

Name & No. _____

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste)	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCPL), ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARD

E - EACH

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

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME _____

DATE _____

SIGNATURE _____

TRANSPORTER

Transporter's

Name _____

Address _____

Phone No. _____

Driver's Name _____

Print Name _____

Phone No. _____

Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE _____

DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 0151

Site Name/

Permit No. _____

Address _____

Halfway Facility / NM1-006

6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. _____

575-393-1079

NORM 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

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W/DBLS Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-905532
 Bid #: Walk-in Bid
 Date: 6/25/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 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

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010FEH

6/25/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # ~~150~~ 38

Name: Fabian SamiSignature: ETDate: 6-21-18DISPOSAL SITE:

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

Signature: Y. MartinezDate: 6/22/18

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



Permian Basin

Customer: MEWBOURNE OIL CO
 Customer #: CRI4110
 Ordered by: AMBER GROVE
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 30
 Card #
 Job Ref #

Ticket #: 700-905536
 Bid #: O6UJ9A000BEJ
 Date: 6/25/2018
 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:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	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:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
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☐ 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: _____

t6UJ9A010FEY

6/25/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

Plains Marketing, LP
505 Big Spring Suite 600, Midland, TX, 79701

LOCATION OF MATERIAL:

Site: Mewbourne Forty Niner Ridge Unit 103H
Legals: UL "O" Sec. 22, T23S, R30E
Location: Eddy Co, NM
API: SRS No. 2018-078

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20

FACILITY CONTACT:

Amber Groves
Plains Marketing, LP
1911 Connie Road, Carlsbad, NM 88220

Signature: Amber GrovesDate: 6/21/2018
6/22/2018NAME OF TRANSPORTER: (DRIVER)Name: Hector BSignature: H/BDate: 6-22-18DISPOSAL SITE:

Lea Land, Inc. NMOCD Permit #NM-01-035
Mile Marker 64, 62/180,
Carlsbad, NM 88220

Signature: J. DanzalezDate: 6-22-18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-905556
 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

20.00 yards

Contaminated Soil (RCRA Exempt)

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

16UJ9A010FKF

8/25/2018 11:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

m mata Trucking
#39 201/ard

Name: Juan Galaviz

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/22/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: 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
 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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010FKM

6/25/2018 10:00

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: 

Date: 6-30-18

NAME OF TRANSPORTER (DRIVER)


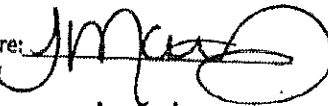
~~#39~~ M Mata Trucking Adrian G
20 yard
Truck #12

Name: ~~John Johnston~~Signature: 

Date: 6/21/18

DISPOSAL SITE:

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

Signature:  JW 

Date: 6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 310400
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-905563
 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	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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010FM0

6/25/2018 11:12



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

Company Man Contact Information

Name Chuck Johnston

Phone No. _____

GENERATORNO. 310400

Operator No. _____

Operators Name Vanguard Permian

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well

Name & No. A30 SWD Roe 002

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids		
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:



DRILLING



COMPLETION



PRODUCTION



GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

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



RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)



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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)



MSDS information



RCRA Hazardous Waste Analysis



Other (Provide Description Below)



EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield 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)

Chuck Johnston

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name M. MATA T.

Address _____

Phone No. _____

Driver's Name Jalo

Print Name _____

Phone No. _____

Truck No. # 150

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**

IN: _____

OUT: _____

Name/No. 50151

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

Q

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

NO

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

B5&W/BOL5 Received

Free Water

Total Received

B5&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? _____

Angel M

NAME (PRINT)

6-29-18

DATE

John

TITLE

R

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1

ENVIRONMENTAL
SOLUTIONS

Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: JUAN
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-905565
 Bid #: 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

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010FM6

6/25/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
TRUCK # ~~158~~ 38

Name: Sub Sam

Signature: ET

Date: 6-21-18

DISPOSAL SITE:

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

Signature: Y. Martinez

Date: 6/28/18

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



Permian Basin

Customer: MEWBOURNE OIL CO
 Customer #: CRI4110
 Ordered by: AMBER GROVE
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 30
 Card #
 Job Ref #

Ticket #: 700-905611
 Bid #: O6UJ9A000BEJ
 Date: 6/25/2018
 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

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

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

t6UJ9A010FUA

6/25/2018 12:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

Plains Marketing, LP
505 Big Spring Suite 600, Midland, TX, 79701

LOCATION OF MATERIAL:

Site: Mewbourne Forty Niner Ridge Unit 103H
Legals: UL "O" Sec. 22, T235, R30E
Location: Eddy Co, NM
API: SRS No. 2018-078

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20

FACILITY CONTACT:

Amber Groves
Plains Marketing, LP
1911 Connle Road, Carlsbad, NM 88220

Signature: Amber GrovesDate: 6/21/2018
6/22/2018NAME OF TRANSPORTER: (DRIVER)Name: Hector BSignature: H/BDate: 6-22-18DISPOSAL SITE:

Lea Land, Inc. NMOC Permit #NM-01-035
Mile Marker 64, 62/180,
Carlsbad, NM 88220

Signature: J. DonzelDate: 6-22-18 6-25-18

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

ENVIRONMENTAL
SOLUTIONS

Permian Basin

Customer: MEWBOURNE OIL CO
 Customer #: CRI4110
 Ordered by: AMBER GROVES
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 13
 Card #
 Job Ref #

Ticket #: 700-905664
 Bid #: O6UJ9A000BEJ
 Date: 6/25/2018
 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:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	50/51	0.00	0.00	0.00	0					0	

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010G1V

6/25/2018 3:07:01



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTONQ
 AFE #:
 PO #:
 Manifest #: 310429
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-905679
 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	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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t5UJ9A010G3I

6/25/2018 4:11



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

Company, Man, Contact Information

Name Chuck Johnston

Phone No. _____

GENERATORNO. 310429

Operator No. _____
 Operators Name UNAWARD
 Address _____
 City, State, Zip _____
 Phone No. _____

Permit/RRC No. _____
 Lease/Well Name & No. A 80 SWD 2
 County _____
 API No. _____
 Rig Name & No. _____
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
----------	-------------	------------	-----------	----------

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

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME	DATE	SIGNATURE
TRANSPORTER		
Transporter's Name <u>M. MATA Trucking</u>	Driver's Name <u>Saul</u>	
Address _____	Print Name _____	
Phone No. _____	Phone No. <u>38</u>	
	Truck No. _____	

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
		<u>6-25-18</u>	<u>X Saul MATA</u>
TRUCK TIME STAMP		DISPOSAL FACILITY	
IN: _____	OUT: _____	RECEIVING AREA	
Site Name/ Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-393-1079</u>	Name/No. <u>60157</u>	
Address <u>6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220</u>			
NORM READINGS TAKEN? (Circle One) <u>YES</u>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, was reading > 50 micro roentgens? (circle one) <u>NO</u>	
PASS THE PAINT FILTER TEST? (Circle One) <u>YES</u>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		

TANK BOTTOMS			
1st Gauge	2nd Gauge	3rd Gauge	4th Gauge
Received	Received	Received	Received
BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED 6-25-18 NO YES NO If denied, why? _____

NAME (PRINT) JM DATE 6-25-18 TITLE JD SIGNATURE _____

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 310398
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-905680
 Bid #: Walk-in Bid
 Date: 6/25/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

3UJ9A010G3K

6/25/2018 4:11



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

Company Man Contact Information

Name Huck Johnston

Phone No. _____

GENERATORNO. **310398**

Operator No. _____

Operators Name Vanguard Permian

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well _____

Name & No. ABO SWD Rec 002

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐

DRILLING

☐

COMPLETION

☐

PRODUCTION

☐

GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

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

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

M. MARIA T.**TRANSPORTER**

Transporter's

Name _____

Address _____

Phone No. _____

Driver's Name Jalo

Print Name _____

Phone No. _____

Truck No. 150

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**

IN: _____ OUT: _____

Name/No. 5061

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-393-1079

NORM 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

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet	Inches

BS&W/BOLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



Permian Basin

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
 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

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

☐ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

UJ9A010G30

6/25/2018 4:11:00



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

Company Name/Contact Information
Name Chuck Johnson

Phone No. _____

GENERATOR

NO. 310428

Operator No. _____
Operators Name Vanguard
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. ABO SWD 2
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste)	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

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

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M MATA Trucking
Address _____
Phone No. _____

Driver's Name Juan
Print Name _____
Phone No. _____
Truck No. 39

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered with no incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. 60151

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/DBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 310427
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: ADRIAN
 Truck #: 12
 Card #
 Job Ref #

Ticket #: 700-905684
 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

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Date:

3UJ9A010G3S

6/25/2018 4:11:10



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man. Contact Information
Name Chuck Johnston

Phone No. _____

GENERATOR

NO. 310427

Operator No. _____
Operators Name Vanguard
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. ABO SWP 2
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

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

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name M MATA Trucking Driver's Name Adrian
Address _____ Print Name _____
Phone No. _____ Phone No. 12
Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 6-25-18 DRIVER'S SIGNATURE Adrian C

TRUCK TIME STAMP		DISPOSAL FACILITY	RECEIVING AREA
IN: _____	OUT: _____		Name/No. <u>5015</u>

Site Name/Permit No. Halfway Facility / NM1-005 Phone No. 575-393-1079
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES 60 IF YES, was reading > 50 micro roentgens? (circle one) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES YES NO

TANK BOTTOMS

1st Gauge	2nd Gauge	Received	BS&W/O&LS Received	Free Water	Total Received	BS&W (%)

I hereby certify that the above load material has been (circle one) ACCEPTED 6-25-18 AD
NAME (PRINT) _____ DATE _____ TITLE _____ SIGNATURE _____

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSON
 AFE #:
 PO #:
 Manifest #: 310399
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-905693
 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	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
50/51	0.00	0.00	0.00	0						

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 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 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

JJ9A010G4S

6/25/2016 4:00



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

Company Man Contact Information
Name CHUCK JOHNSTON

Phone No. _____

GENERATOR

NO. 310399

Operator No. _____

Operators Name Vanguard Permian

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well Name & No. ABO SWD ROC 002

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

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

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. MATA T.

Address _____

Phone No. _____

Driver's Name Lalo

Print Name _____

Phone No. _____

Truck No. 150

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. 50157

Site Name/

Permit No. Halfway Facility / NM1-006

Phone No. 575-393-1079

Address 5501 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM 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

TANK BOTTOMS

1st Gauge
2nd Gauge
Received

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSON
 AFE #:
 PO #:
 Manifest #: 310413
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: JUAN
 Truck #: 39
 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
 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
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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010G4U

6/25/2018 4:00 PM



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

Company Map Contact Information

Name Chuck Johnston

Phone No. _____

GENERATORNO. 310413

Operator No. _____

Operator's Name Vanguard

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well _____

Name & No. _____

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable)	Washout Water (Injectable)
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Muds	Produced Water (Non-Injectable)	Produced Water (Injectable)
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste)	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

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

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**

IN:

OUT:

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-005

Phone No.

575-393-1079

NORM 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

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/GBLS Received

BS&W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1

ENVIRONMENTAL
SOLUTIONS

Permian Basin

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 #: 700-905696
 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

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

3UJ9A010G4Y

6/25/2018 3:41



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

Company Man Contact Information
Name Chuck Johnston

Phone No. _____

GENERATOR

NO. 310412

Operator No. _____
Operators Name Vanguard
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. ABO SWN #2
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	INJECTABLE WATERS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	Washout Water (Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____	Completion Fluid/Flow back (Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	Produced Water (Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	Gathering Line Water/Waste (Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

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

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENT'S NAME _____

DATE _____

SIGNATURE _____

TRANSPORTER

Transporter's Name M Mata Trucking
Address _____
Phone No. _____

Driver's Name Adrian
Print Name _____
Phone No. 12
Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE _____

DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. SD151

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM 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

NO

TANK BOTTOMS

1st Gauge _____
2nd Gauge _____
Received _____

BS&W/OBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

if denied, why? _____

NAME (PRINT) JN

DATE 4-25-18

TITLE _____

SIGNATURE JN

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: AMBER GROVE
 AFE #:
 PO #:
 Manifest #: 313324
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-905701
 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

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

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

Plains Marketing, LP
505 Big Spring Suite 600, Midland, TX, 79701

LOCATION OF MATERIAL:

Site: Mewbourne Forty Niner Ridge Unit 103H
Legals: UL "O" Sec. 22, T23S, R30E
Location: Eddy Co, NM
API: SRS No. 2018-078

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20

FACILITY CONTACT:

Amber Groves
Plains Marketing, LP
1911 Connie Road, Carlsbad, NM 88220

Signature: Amber Groves

Date: 6/21/2018
6/22/2018

NAME OF TRANSPORTER: (DRIVER)

Name: Hector B

Signature: H/B

Date: 6-22-18

DISPOSAL SITE:

Lea Land, Inc. NMOCD Permit #NM-01-035
Mile Marker 64, 62/180,
Carlsbad, NM 88220

Signature: S. Gonzalez

Date: 6-22-18 6-25-18

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



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name Chuck Johnston

Phone No. _____

GENERATORNO. 311604

Operator No. _____

Operator's Name Vanguard

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well Name & No. ABO SWD #2

County _____

API No. _____

Rig Name & No. NON - Drill

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	NON-INJECTABLE WASTES
Oil Based Cuttings	_____	Washout Water (Non-Injectable)
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)
Water Based Cuttings	_____	Produced Water (Non-Injectable)
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)
Tank Bottoms	_____	INTERNAL USE ONLY
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)
Gas Plant Waste	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
<u>Belly D</u>		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID YARDS E - EACH

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

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

Chuck Johnston

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER	
Transporter's Name <u>M Moka Trucking</u>	Driver's Name <u>Scot Manure</u>
Address _____	Print Name _____
Phone No. _____	Phone No. _____
	Truck No. <u>38</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 6-25-18 DRIVER'S SIGNATURE Scot Manure

TRUCK TIME STAMP		DISPOSAL FACILITY		RECEIVING AREA	
IN: _____	OUT: _____	Name/No. <u>50151</u>			

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079

Address 8601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro rontgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) NO

TANK BOTTOMS	
Feet	Inches
1st Gauge	_____
2nd Gauge	_____
Received	_____

B5&W/ABLS Received	B5&W (%)
Free Water	_____
Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

Angel M 6-25-18 Adrian _____

NAME (PRINT) DATE TITLE SIGNATURE



Permian Basin

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: HECTOR
 Truck #: 30
 Card #
 Job Ref #

Ticket #: 700-905826
 Bid #: O6UJ9A000BEJ
 Date: 6/26/2018
 Generator: MEWBOURNE OIL CO
 Generator #:
 Well Ser. #: 42708
 Well Name: FORTY NINER RIDGE UNIT
 Well #: 103H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product/Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

ISLIJ9A010GIM

6/26/2018 9:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

Plains Marketing, LP
505 Big Spring Suite 600, Midland, TX, 79701

LOCATION OF MATERIAL:

Site: Mewbourne Forty Niner Ridge Unit 103H
Legals: UL "O" Sec. 22, T235, R30E
Location: Eddy Co, NM
API: SRS No. 2018-078

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 #TRUCK 1295

FACILITY CONTACT:

Amber Groves
Plains Marketing, LP
1911 Connie Road, Carlsbad, NM 88220

Signature: Amber GrovesDate: 6/22/2018NAME OF TRANSPORTER: (DRIVER)Name: Hector B. AnguloSignature: Hector B. AnguloDate: 6-22-18-66-26-18DISPOSAL SITE:

Lea Land, Inc. NMOCD Permit #NM-01-035
Mile Marker 64, 62/180,
Carlsbad, NM 88220

Signature: J. GonzalezDate: 6-22-18

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



Permian Basin

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: ANGEL
 Truck #: 1295
 Card #
 Job Ref #

Ticket #: 700-905827
 Bid #: O6UJ9A000BEJ
 Date: 6/26/2018
 Generator: MEWBOURNE OIL CO
 Generator #:
 Well Ser. #: 42708
 Well Name: FORTY NINER RIDGE UNIT
 Well #: 103H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (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
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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

16UJ9A010GIR

6/26/2018 8:11:11



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK VANGUARD
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/26/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 30
 Card #
 Job Ref #

Ticket #: 700-905898
 Bid #: 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	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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

I6UJ9A010GT4

6/26/2018 11:11:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

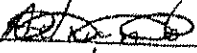
VOLUME: 20 x4

FACILITY CONTACT:

Chuck Johnston
~~Kyle Zimmerman~~
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: Date: 6-20-18NAME OF TRANSPORTER (DRIVER)

M. Mata Trucking
Truck # ~~10~~ 30

Name: HectorSignature: Date: 6-21-18DISPOSAL SITE:

R360 Halfway Facility
4507 W Carlshad Hwy
PO Box 388
Hobbs, NM 88241

Signature: Date: 6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/26/2018
 Hauler: M MATA TRUCKING LLC
 Driver: ANGEL
 Truck #: 1295
 Card #:
 Job Ref #

Ticket #: 700-905900
 Bid #: 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

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

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

i6UJ9A010GTD

8/26/2017 11:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME:

20 x 6

FACILITY CONTACT:

Chuck Johnston
~~Kyle Zimmerman~~
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature:

Chuck Johnston

Date:

6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck # 1295

Name:

Angel

Signature:

Angel

Date:

6-21-18

DISPOSAL SITE:

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

Signature:

J. Mata

Date:

6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/26/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 30
 Card #
 Job Ref #

Ticket #: 700-905968
 Bid #: 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	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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

ISUJ9A010GYO

6/26/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 yd

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck # 1030

Name: Hector

Signature: Adrian G

Date: 6-21-18

DISPOSAL SITE:

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

Signature: J. Mata

Date: 6/21/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/26/2018
 Hauler: M MATA TRUCKING LLC
 Driver: ANGEL
 Truck #: 1295
 Card #
 Job Ref #

Ticket #: 700-905970
 Bid #: 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	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
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:

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☐ 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

6/26/2018 2:00

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 kw

FACILITY CONTACT:

Chuck Johnston
~~Kyle Zimmerman~~
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: 

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck # 1295

Name: Signature: 

Date: 6-21-18

DISPOSAL SITE:

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

Signature: 

Date: 6/26/18

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



Client: TRC Solutions, Inc

Date/ Time Received: 07/18/2018 10:10:00 AM

Work Order #: 592670

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/18/2018

Checklist reviewed by:

Kelsey Brooks

Date: 07/19/2018



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 313324
 Manif. Date: 6/25/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR B
 Truck #: 30
 Card #:
 Job Ref #:

Ticket #: 700-906233
 Bid #: Walk-in Bid
 Date: 6/27/2018
 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
Lab Analysis:	Cell	pH
	50/51	0.00
	Cl	0.00
	Cond.	0.00
	%Solids	0
	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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

I6UJ9A010HFQ

7/24/2018 10:24:23AM



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

Chuck Johnson

Company Man Contact Information
Name Amber Grove

Phone No. _____

GENERATOR

NO. **313324**

Operator No. _____
Operators Name Vanguard
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Forty Armer Ridge 103H
County ABQ
API No. _____
Rig Name & No. NON-Drilling
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID **20** Y-YARDS E - EACH

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

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield 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)

Amber Grove
(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. Mata Trucking
Address _____
Phone No. _____

Driver's Name* Hector B
Print Name _____
Phone No. _____
Truck No. 30

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. SD/SI

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES C NO GO
PASS THE PAINT FILTER TEST? (Circle One) YES C NO GO

If YES, was reading > 50 micro roentgens? (circle one) YES GO NO NO

TANK BOTTOMS

1st Gauge	2nd Gauge
Received	Received

BS&W/BLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DEFIED

If denied, why?

Angel M
NAME (PRINT)

6-25-18
DATE

Johnson
TITLE

[Signature]
SIGNATURE

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME:

20 x4

FACILITY CONTACT:

Chuck Johnston
~~Kyle Zimmerman~~
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature:

CH Johnston

Date:

6-30-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck # ~~10~~ 30

Name:

Hector B

Signature:

Hector B

Date:

6-25-18

DISPOSAL SITE:

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

Signature:

JM

Date:

6/25/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 7/2/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 150
 Card #:
 Job Ref #:

Ticket #: 700-907882
 Bid #: Walk-in Bid
 Date: 7/2/2018
 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
Lab Analysis:	Cell 50/51	pH 0.00
	Cl 0.00	Cond. 0.00
	%Solids 0	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:

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☐ 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: _____

t6UJ9A010LVI

7/24/2018 10:24.24AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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 Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: _____

Date: _____

NAME OF TRANSPORTER: (DRIVER)TK+ 150
Name: Hector B

Signature: _____

Date: 7-02-18

DISPOSAL SITE:

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

Signature: T. Martinez

Date: 7/2/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CR15830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 7/2/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 150
 Card #:
 Job Ref #:

Ticket #: 700-907923
 Bid #: Walk-In Bid
 Date: 7/2/2018
 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				
Lab Analysis:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	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:

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☐ 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: _____

t6UJ9A010M2D

7/24/2018 10:24:24AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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 Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: CK JohnstonDate: 7-02-18NAME OF TRANSPORTER: (DRIVER)Name: Hector BSignature: Hector BDate: 7-02-18DISPOSAL SITE:

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

Signature: T MartinezDate: 7/2/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 7/2/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 150
 Card #:
 Job Ref #:

Ticket #: 700-907980
 Bid #: Walk-in Bid
 Date: 7/2/2018
 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
Lab Analysis:	Cell	pH
	50/51	0.00
	Cl	Cond.
	0.00	0.00
	%Solids	TDS
	0	
	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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010M91

7/24/2018 10:24:24AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL 20

VOLUME: _____

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: _____

Date: _____

NAME OF TRANSPORTER: (DRIVER)

Name: _____

Signature: _____

Date: _____

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: 319085
 Manif. Date: 7/2/2018
 Hauler: M MATA TRUCKING LLC
 Driver: HECTOR
 Truck #: 150
 Card #:
 Job Ref #:

Ticket #: 700-908495
 Bid #: Walk-in Bid
 Date: 7/4/2018
 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:

- ☒ 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****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____

t6UJ9A010NJR

7/24/2018 10:24:25AM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information
Name Chuck Johnston
Phone No. _____

on hold

GENERATOR

NO. 319085

Operator No. _____
Operators Name Vanguard
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. ABO SWD #2
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. Non-drilling

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	NON-INJECTABLE WATERS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)
Water Based Cuttings	_____	Produced Water (Non-Injectable)
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)
Tank Bottoms	_____	INTERNAL USE ONLY
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)
Gas Plant Waste	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount			
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.			
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back			
QUANTITY	<u>20</u>	B - BARRELS	L - LIQUID
			Y - YARDS
			E - EACH

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

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield 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)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M-Mata
Address _____
Phone No. _____

Driver's Name Hector
Print Name _____
Phone No. _____
Truck No. 150

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP		DISPOSAL FACILITY	RECEIVING AREA
IN: _____	OUT: _____		Name/No. <u>50/S1</u>

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐

IF YES, was reading > 50 micro roentgens? (circle one) YES ☐ NO ☒

TANK BOTTOMS

	Feet	Inches	BS&W/GBLS Received	BS&W (%)
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

(denied, why?)

NAME (PRINT)

DATE

TITLE

SIGNATURE



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 7/17/2018
 Hauler: M MATA TRUCKING LLC
 Driver: ORNALDO
 Truck #: 151
 Card #:
 Job Ref #:

Ticket #: 700-912175
 Bid #: Walk-in Bid
 Date: 7/17/2018
 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
Lab Analysis:	Cell	pH
	50/51	0.00
	Cl	Cond.
	0.00	0.00
	%Solids	TDS
	0	
	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:

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

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☐ 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: _____

I6UJ9A010XZ0

7/24/2018 10:24:25AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: _____

Date: _____

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
UNIT #151

Name: _____

Signature: _____

Date: _____

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

360

Permian 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: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-904439
 Bid #: Walk-in Bid
 Date: 6/21/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

6/21/2018 8:41:17

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

#39
20 yard
M Mata Trucking

Name: Juan Galaviz

Signature: [Signature]

Date: 6/20/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
BOLLY DUMP
TRUCK # 450

Name: JaloSignature: EMDate: 6-21-18DISPOSAL 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



Permian 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: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-904440
 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

	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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010CKQ

6/21/2018



Permian 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: ADRIAN
 Truck #: 12
 Card #
 Job Ref #

Ticket #: 700-904444
 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

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

6/21/2018 9:02 AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 yd

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: Date: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck #12

Name: Adrian GSignature: Adrian GDate: 6-21-18DISPOSAL SITE:

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

Signature: Date: 6/21/18

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

360

Permian 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 #: 700-904446
 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

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

6/21/2018 9:14 AM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-30-18NAME OF TRANSPORTER: (DRIVER)

#38

Name: Saul MartinezSignature: Saul MartinezDate: 6-21-18DISPOSAL SITE:

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

Signature: Jim [Signature]Date: 6/21/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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 Johnston
~~Kyle Zimmerman~~
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: _____

Date: _____

NAME OF TRANSPORTER: (DRIVER)

Name: _____

Signature: _____

Date: _____

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



Permian 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: HECTOR
 Truck #: 151
 Card #
 Job Ref #

Ticket #: 700-904454
 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

	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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



ENVIRONMENTAL
SOLUTIONS

Permian Basin

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

	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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

WUJ9AD10CRY

6/21/2018 11:13

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: _____

Date: _____

NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # 150

Name: _____

Signature: _____

Date: _____

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

TRANSPORTER'S MANIFEST

SHIPPERS FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, 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: CK Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

M Mata Trucking
#39 20 Yards

Name: Juan Galaviz

Signature: [Signature]

Date: 01/21/18

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



Permian 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: JUAN
 Truck #: 39
 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
 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
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:

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☐ 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: _____



ENVIRONMENTAL
SOLUTIONS

Permian 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: 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
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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

11USA010C55

6/21/2018 11:10

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 yd

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

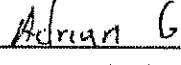
Signature: 

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck # 12

Name: Adrian G

Signature: 

Date: 6-21-18

DISPOSAL SITE:

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

Signature: 

Date: 6-21-18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: Chuck Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

#38
Name: Saul Alacarte

Signature: Saul Alacarte

Date: 6-21-18

DISPOSAL SITE:

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

Signature: _____

Date: _____

Direct Bill: Vanguard Operating, LLC
Cont. Of: Kyle Zimmerman



Permian 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 #: 700-904514
 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

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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

t6UJ9A010CSZ

6/21/2018



ian 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: HECTOR
 Truck #: 151
 Card #
 Job Ref #

Ticket #: 700-904517
 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)

ity: GRI

uct / Service

Quantity Units

aminated 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

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:

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 ded. 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)

HLB
 Agent Signature

R360 Representative Signature

omer Approval

THIS IS NOT AN INVOICE!

oved By: _____

Date: _____

A010CTA

6/21/2018 1:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-30-18NAME OF TRANSPORTER: (DRIVER)

M. Mata
#151

Name: Hector BSignature: HLBDate: 6-21-18DISPOSAL SITE:

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

Signature: JMDate: 6/21/18

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

360C. P. INDUSTRIAL
SOLUTIONS

Permian 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: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-904554
 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

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

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☐ 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: _____

6005FAC10CX0

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R35E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # 150

Name: LaloSignature: ETDate: 6-21-18DISPOSAL SITE:

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

Signature: Y. ZimmermanDate: 6/21/18

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

360PERMIAN BASIN
CWA FORM

Permian 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: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-904556
 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

	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:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ 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: _____

USJJA010CXS

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

M Mata Trucking,
PO BOX 1253,
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: Ch Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

M Mata Trucking
#39 20 yard

Name: Juan Galaviz

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/21/18

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



Permian 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: ADRIAN
 Truck #: 12
 Card #
 Job Ref #

Ticket #: 700-904560
 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)

12.00 yards

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

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☐ 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: _____

5UJSA010CY0

6/21/2015

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 x4

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. Mata Trucking
Truck #12.

Name: Adrian G

Signature: Adrian G

Date: 6-21-18

DISPOSAL SITE:

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

Signature: J. Mata

Date: 6/21/18

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



Permian Basin

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 #: 700-904554
 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

Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 60/51	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:

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☐ 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: _____

100-144100YA

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: Chuck Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

7-38
Name: Samuel Martinez

Signature: Samuel Martinez

Date: 6-21-18

DISPOSAL SITE:

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

Signature: J. Martinez

Date: 6/21/18

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



Permian 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: HECTOR
 Truck #: 151
 Card #
 Job Ref #

Ticket #: 700-904569
 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

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

16UJ9A010CYK

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

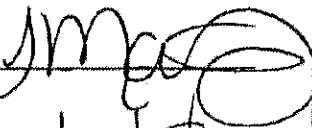
VOLUME: 20 151

FACILITY CONTACT:

Chuck Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: Date: 6-30-18NAME OF TRANSPORTER: (DRIVER)Name: Hector BSignature: Date: 6-21-18DISPOSAL SITE:

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

Signature: Date: 6/21/18

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



Permian 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: LALO
 Truck #: 150
 Card #
 Job Ref #

Ticket #: 700-904622
 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

	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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ 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: _____

16LIJ9A010D1Z

6/21/2018 10:07:11

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-30-18

NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # 150

Name: Lalo

Signature: ET

Date: 6-21-18

DISPOSAL SITE:

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

Signature: ym jantana

Date: 6/21/18

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



Permian 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: JUAN
 Truck #: 39
 Card #
 Job Ref #

Ticket #: 700-904623
 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

Lab Analysis:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	60/61	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:

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☐ 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: _____

03/20/2023

03/20/2023

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M Mata Trucking
#39 20 yard

Name: Juan Salazar

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/21/18

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



WATER SERVICE
SOLUTIONS

Permian 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 #: 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

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

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☐ 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

Saul M...

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

0009000000

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CKMDate: 6-30-18NAME OF TRANSPORTER: (DRIVER)Name: Chuck JohnstonSignature: Chuck JohnstonDate: 6-21-18DISPOSAL SITE:

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

Signature: JMDate: 6/21/18

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



Permian 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: HECTOR
 Truck #: 151
 Card #
 Job Ref #

Ticket #: 700-904644
 Bid #: Walk-in Bid
 Date: 6/21/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: 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:

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☐ 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: _____

8UJ9A010D2X

6/21/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S NAME AND ADDRESS:

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

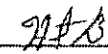
DESCRIPTION OF WASTE:

E&P EXEMPT IMPACTED SOIL

VOLUME: 20 151

FACILITY CONTACT:

Chael Johnston
Kyle Zimmerman
Vanguard Operating, LLC
4001 Penbrook, Suite 201, Odessa, TX 79762

Signature: Date: 6-20-18NAME OF TRANSPORTER: (DRIVER)Name: Hector BSignature: Date: 6-21-18DISPOSAL 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



Permian Basin

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 #: 700-904788
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ 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: _____

9039A010DER

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M Mata Trucking
#39 20 yard

Name: Juan Galaviz

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

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

Signature: [Signature]

Date: 6/22/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: _____

Date: _____

NAME OF TRANSPORTER (DRIVER)

~~#39~~ 20 yard
Truck #12
M Mata Trucking Adrian G

Name: _____

Signature: _____

Date: _____

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

ENVIRONMENTAL
SOLUTIONS

Permian Basin

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 #: 700-904789
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig:
 County: NON-DRILLING
 LEA (NM)

Facility: CRI

Product / Service

Contaminated Soil (RCRA Exempt)

Quantity Units

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:

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☐ 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: _____



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-904790
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 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:

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☐ 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: _____

16UJGA010DEZ

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Becky Dump
Truck # ~~158~~ 38

Name: Fab Sam

Signature: ET

Date: 6-21-18

DISPOSAL SITE:

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

Signature: JM Martinez

Date: 6/22/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T175, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: _____

Date: _____

NAME OF TRANSPORTER (DRIVER)

~~#39~~ 20 yard
Truck #12
M Mata Trucking Adrian G

Name: ~~John Johnston~~

Signature: _____

Date: 6/21/18

DISPOSAL SITE:

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

Signature: _____

Date: 6/21/18

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

ENVIRONMENTAL
SOLUTIONS

Permian Basin

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 #: 700-904789
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig:
 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:

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

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 #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

COUNCIL/CDL

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CH Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M Mata Trucking
#39 20 yard

Name: Juan Galaviz

Signature: [Signature]

Date: 6/21/18

DISPOSAL SITE:

R360 Halfway Facility
4507 W Carlisbad Hwy
PO Box 388
Hobbs, NM 88241

Signature: [Signature]

Date: 6/22/18

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



Permian Basin

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 #: 700-904827
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ 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: _____

16UJ9A010DM7

6/22/2018

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: Chuck Johnston

Date: 6-30-18

NAME OF TRANSPORTER (DRIVER)

~~#39~~ ^{to} M Mata Trucking Adrian G
20 yard
Truck #12

Name: ~~Joe Zimmerman~~

Signature: Adrian G

Date: 6/21/18

DISPOSAL SITE:

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

Signature: Jim

Date: 6/21/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # ~~158~~ 38

Name: John SamlSignature: ETDate: 6-21-18DISPOSAL SITE:

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

Signature: Y. MartinezDate: 6/22/18

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



Permian Basin

Customer: VANGUARD PERMIAN
 Customer #: CRI5830
 Ordered by: CHUCK JOHNSTON
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 6/22/2018
 Hauler: M MATA TRUCKING LLC
 Driver: SAUL
 Truck #: 38
 Card #
 Job Ref #

Ticket #: 700-904828
 Bid #: Walk-In Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

City: 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
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 1990 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.

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

Generator Agent Signature

R360 Representative Signature

Saul M... ..

[Signature]

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

4010DM

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK JohnstonDate: 6-20-18NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Bolly DUMP
TRUCK # 450

Name: JaloSignature: [Signature]Date: 6-21-18DISPOSAL SITE:

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

Signature: T. MartinezDate: 6/22/18

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



Permian Basin

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 #: 700-904836
 Bid #: Walk-in Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

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:

- ☒ 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

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

18UJ9A010DNF

6/22/18



Permian Basin

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 #: 700-904867
 Bid #: Walk-In Bid
 Date: 6/22/2018
 Generator: VANGUARD
 Generator #:
 Well Ser. #: 03849
 Well Name: ABO SWD ROC
 Well #: 002
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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

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☐ 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: _____

IGUJ9A010DRU

6/22/2018 10:14

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER (DRIVER)

M Mata Trucking Adrien G
#39 20 yard
Truck #12

Name: Adrien G

Signature: Adrien G

Date: 6/21/18

DISPOSAL SITE:

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

Signature: Jim

Date: 6/21/18

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

TRANSPORTER'S MANIFEST

SHIPPER'S FACILITY NAME AND ADDRESS:

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

LOCATION OF MATERIAL:

Site: ABO SWD #2
Legals: UL "C", Sec. 2, T17S, R36E
Location: Lea Co, NM
API: 30-025-03849

TRANSPORTER'S 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: CK Johnston

Date: 6-20-18

NAME OF TRANSPORTER: (DRIVER)

M. MATA TRUCKING
Belly Dump
Truck # ~~158~~ 38

Name: Late Sam

Signature: ET

Date: 6-21-18

DISPOSAL SITE:

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

Signature: JM Johnston

Date: 6/22/18

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

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. 432-202-4771
Facility Name: ABO SWD #2	Facility Type: Tank Battery

Surface Owner: State	Mineral Owner:	API No.
----------------------	----------------	---------

LOCATION OF RELEASE

Unit Letter C	Section 2	Township 17S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude: N 32.868700° Longitude: W 103.326070°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: unknown	Volume Recovered: unknown
Source of Release: Tank Battery	Date and Hour of Occurrence: Historic	Date and Hour of Discovery: Historic
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

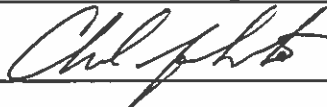

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.*
Historic release of produced water from SWD tank battery.

Describe Area Affected and Cleanup Action Taken.*

Discovered historic release areas from SWD tank battery. Samples will be collected and sent to the lab for testing.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Chuck Johnston	Approved by Environmental Specialist: 	
Title: EHS	Approval Date: 9/21/2017	Expiration Date:
E-mail Address: cjohnston@vnrllc.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 9-19-2017 Phone: 432-202-4771		

* Attach Additional Sheets If Necessary

1RP-4817

nOY1726455140

pOY1726455393

ABO Roc SWD #002 Historic Imaging:

2003

8/2003

ABO SWD ROC#002 (32.868700, -103.326070)

Image © 2023 Maxar Technologies

Google Earth

2005

7/2005

ABO SWD ROC#002 (32.868700, -103.326070)

Image NMRGIS

Google Earth

9/2006

2006

ABO SWD ROC#002 (32.868700, -103.326070)

Image USDA/FPAC/GEO

Google Earth

2009

ABO SWD ROC#002 (32.868700, -103.326070)

Image USDA/FPAC/GEO

Google Earth

2011

ABO SWD ROC#002 (32.868700, -103.326070)

Image © 2023 Maxar Technologies

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
District IV
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: Contango Resources, LLC 111 E. 5TH STREET FORT WORTH, TX 76102	OGRID: 330447
	Action Number: 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