

ENVIRONMENTAL PLUS, INC.

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Eunice, NM 88231
ddominguezepi@gmail.com
Office: (575) 394-3481
Fax: (575) 394-2601



APPROVED

By Olivia Yu at 11:35 am, Jun 28, 2017

Final Closure Report

NMOCD grants
closure to 1RP-4450.

**Vanguard Operating, LLC
Hill Tank Battery
Lea County, New Mexico
Unit Letter "B", Section 4, Township 21 South, Range 37 East
Latitude 32.513168 North, Longitude 103.165092 West
NMOCD Reference #1RP-4450**

Prepared For:

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

Prepared By:

Environmental Plus, Inc.
2100 Ave 'O'
Eunice, NM 88231

May 2017

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

Daniel Dominguez
Project Manager



The following *Final Closure Report* serves as a condensed update on field activities undertaken for the afore referenced Site.

Background:

The site is located in Unit Letter B (SE ¼ SE ¼), Section 4, Township 21 South, Range 37 East, approximately six north of Eunice, in Lea County, New Mexico.

The release site is located at an active tank battery; latitude 32.513168 North, longitude 103.165092 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Form C-141 indicates that on September 16, 2016 lightning struck the tank battery causing a fire which damaged all the tanks on site. Produced water and oil remained inside of the lined containment. Wells were shut in until weather permits repairs. Approximately 115 barrels of oil and water were released to containment. A vacuum truck was utilized to recover approximately 115 barrels of fluid, resulting in a net loss of zero barrels. A small area outside containment to the south of battery was found that had been affected by the release and fire. The visually affected areas total approximately 8,000 square feet. The Initial NMOCD Form C-141 is included as Attachment V.

EPI was contracted by Vanguard to remediate the small area outside of containment to the south of the tank battery. Two different companies, Collier Backhoe Service and Balderama, were contracted to remove and replace the contaminated soil, damaged process equipment, liner, and tanks. This work was completed before EPI personnel arrived on location to begin delineation work on the area to the south of the tank battery.

NMOCD Site Classification:

A search for water wells was completed utilizing the New Mexico Office of the State Engineer's (NMOSE) website. There are four wells located in the area surrounding the release site (reference *Table 1*). Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). The NMOSE database indicates average water depth is approximately 75 feet bgs within a 2,000-meter radius, however, the Chevron Trend Map (2005) indicates average water depth is approximately 25 feet bgs within the immediate area of the tank battery (reference *Table 1*, and *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the Hill Tank Battery release site to have a ranking score of twenty. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 100 mg/Kg, and Chloride – 250 mg/Kg.

The fluid stayed within the tank battery containment. The area to the south of the tank battery covered an area approximately 81 x 41 feet. The area consists of approximately two feet of sandy topsoil atop a hard caliche layer.

Delineation Activities:

EPI personnel mobilized on the site on October 7, 2016 to collect soil samples to determine the vertical extent of contamination. A total of twelve soil samples were collected from four sample

locations; SP1 – SP4. Four representative samples, one from each sample point, were sent to Cardinal Labs for chloride testing. Laboratory analytical results indicate the release area is void of Chloride concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Field testing of the surface sample from SP4 indicated elevated chlorides above NMOCD RRALs. In lieu of excavation the area was dug up, blended, resampled, and backfilled. The composite sample collected was sent to Cardinal Labs for chloride testing. Laboratory analytical results indicate the area to be void of Chloride concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Portions of select soil samples were field tested for organic vapors and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Field testing of organic vapors utilized a Mini-Rae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were collected into laboratory provided glass containers, labeled and inserted into self-sealing polyethylene bags, placed in a cooler, chilled and transported to an independent laboratory for quantification of contaminant concentrations under Chain-of-Custody protocol.

On February 7, 2017 EPI personnel were on site to collect soil samples from within the lined containment area. A total of five soil samples were collected from five sample locations, SP5 – SP9. All five samples were sent to Cardinal labs for testing. Laboratory analytical results indicate the lined containment area to be void of contaminant concentrations in excess of NMOCD RRALs (reference *Figure 3* and *Table 2*).

Completed Actions:

The entire tank battery was rebuilt and liner replaced. Collier Backhoe Service worked in conjunction with Balderama to remove the contaminated soil and process equipment. The contaminated soil was scrapped up and the berms were removed. All contaminated soil was hauled to a state approved disposal facility. Clean caliche was hauled in, the berms were replaced, a new liner installed, and the tank battery was rebuilt (reference *Attachment IV* and *NMOCD website*).

All the work to rebuild the tank battery was completed before EPI arrived on site to sample the area to the south of the battery. The area to the south of the battery affected by the fire had already been scraped up when the tank battery was rebuilt, however, EPI personnel collected samples from the area. Based on the field testing data and laboratory analytical data, the area around SP4 was excavated, blended, resampled, and backfilled. The work on this area to the south of the tank battery comprises the extent of the work for which EPI was contracted.

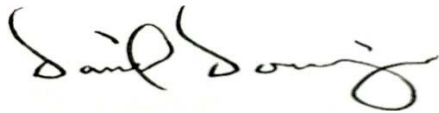
Upon completion of backfill activities, the disturbed area was contoured to blend with existing pasture area and protected against wind/water erosion.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Chuck Johnston at (432) 202-4771 or via e-mail at cjohnston@vnrlc.com. All official communication should be addressed to:

Mr. Chuck Johnston
Vanguard Operating, LLC
4001 Penbrook, Suite 2001
Odessa, Texas 79762

Sincerely,

ENVIRONMENTAL PLUS, INC.



Daniel Dominguez
Environmental Consultant

cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs, NM
Chuck Johnston, EHS – Vanguard
File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – NMOSE Average Depth to Groundwater
Attachment III – Laboratory Analytical Results
Attachment IV – E-mail Correspondence, Liner Specifications, Disposal Tickets
Attachment V – Copy of Initial NMOCD Form C-141, Final NMOCD Form C-141

FIGURES

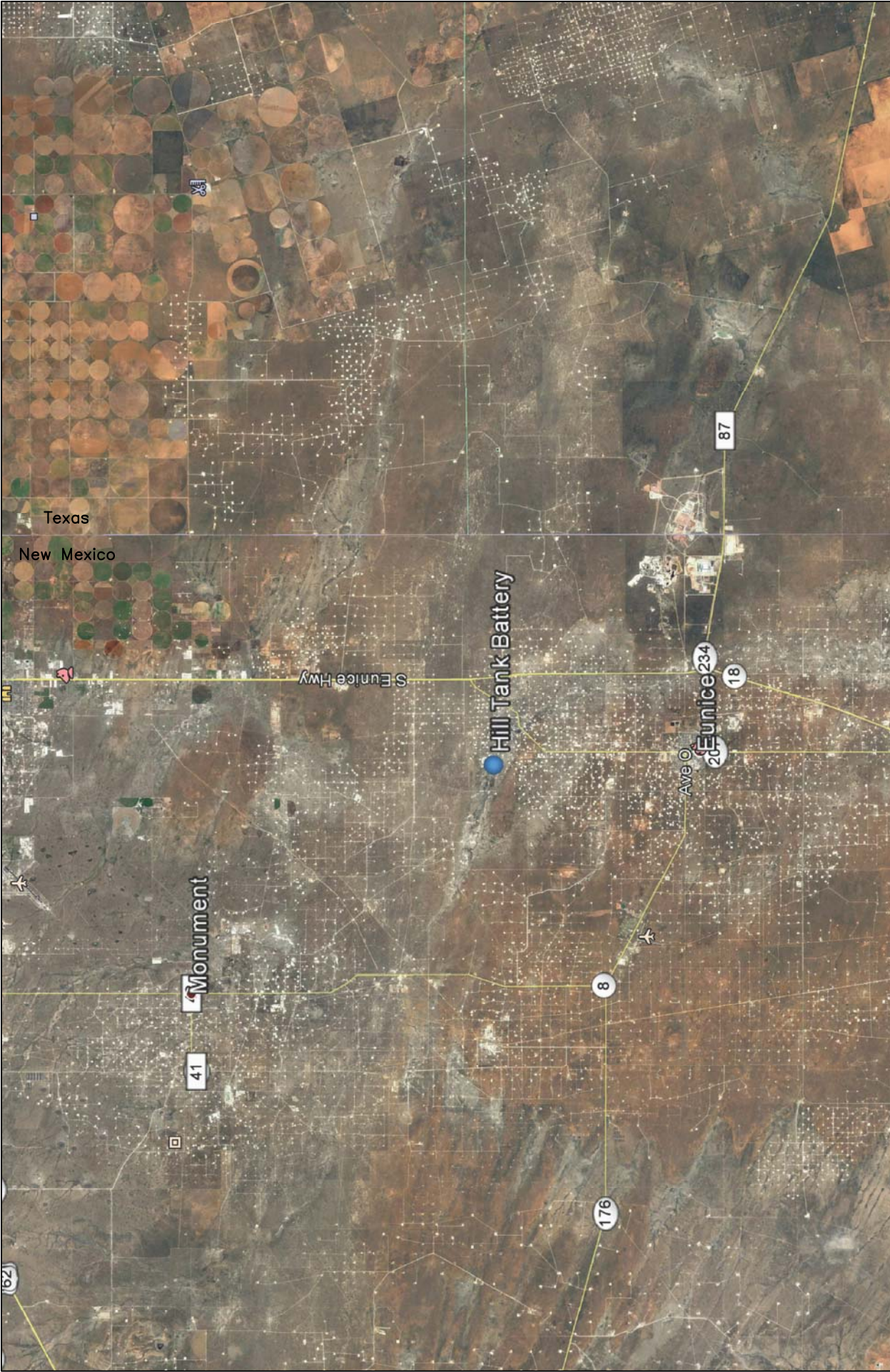


Figure 1 Area Map Vanguard Hill Tank Battery	Lea County, New Mexico NW 1/4 of NE 1/4, Sec. 4, T21S, R37E N 32° 30' 46.70" W 103° 09' 53.66" Elevation: 3,436 feet amsl	DWG By: D Dominguez December 2016	REVISED:	
		0 3 6	SHEET 1 of 1	
		 Miles		

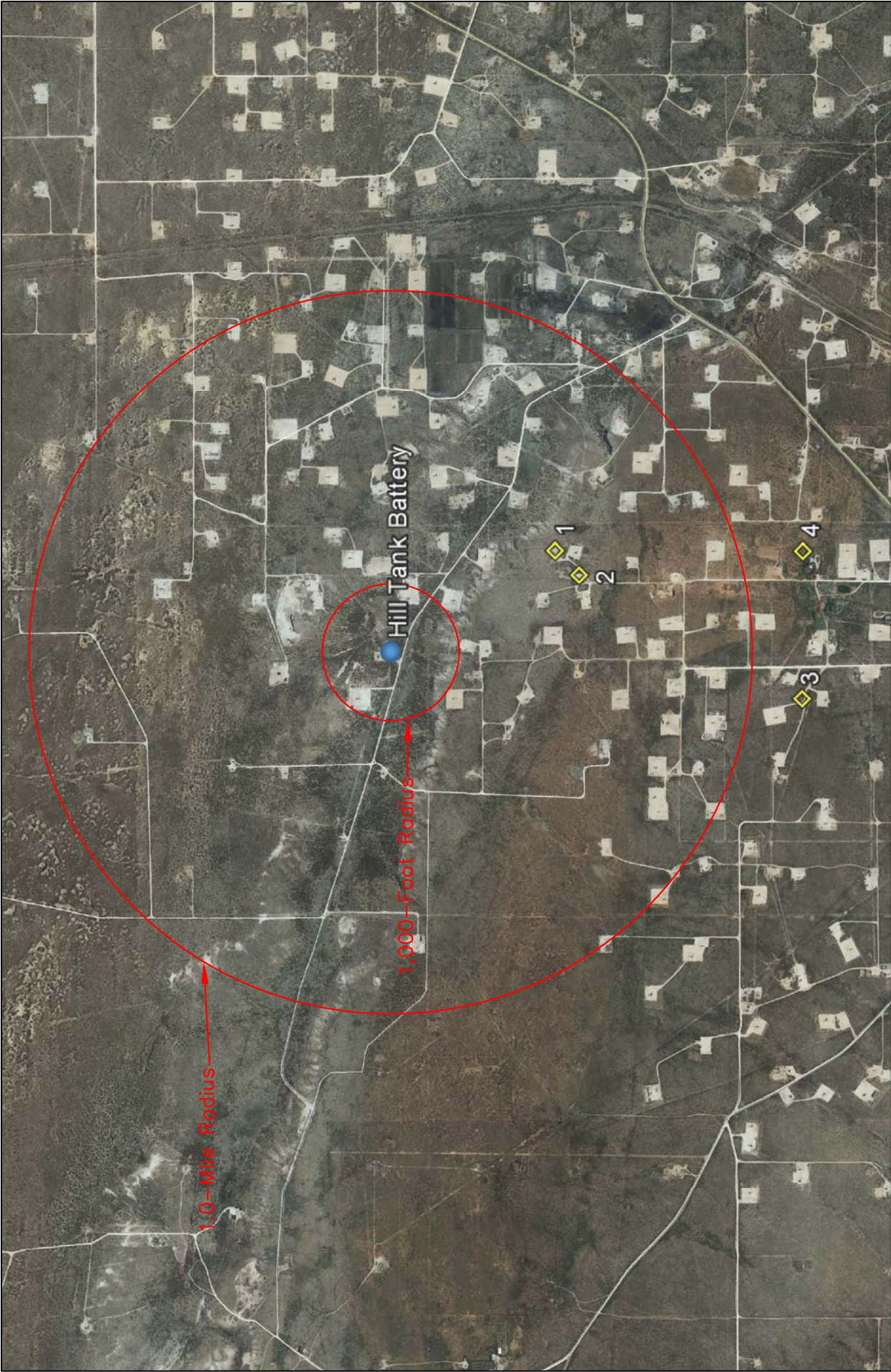


Figure 2 Site Location Map Vanguard Hill Tank Battery	Lea County, New Mexico NW 1/4 of NE 1/4, Sec. 4, T21S, R37E N 32° 30' 46.70" W 103° 09' 53.66" Elevation: 3,436 feet amsl	DWG By: D Dominguez December 2016		REVISED:		
				SHEET		
				1 of 1		



<p>Figure 3 Site/Sample Map Vanguard Hill Tank Battery</p>	<p>Lea County, New Mexico NW 1/4 of NE 1/4, Sec. 4, T21S, R37E N 32° 30' 46.70" W 103° 09' 53.66" Elevation: 3,436 feet amsl</p>	<p>DWG By: D Dominguez December 2016</p> <p>0 40 80 Feet</p>	<p>REVISED: Feb. 2017</p> <p>SHEET 1 of 1</p>	<p>N</p>
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LEGEND

X SP1 Sample Location

TABLES

TABLE 1

Well Data

Vanguard - Hill Tank Battery

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Distance ^B	Date Measured	Surface Elevation ^C	Depth to Water (ft bgs)
1	CP 00172	IRR	3	INTERFIRST BANK FORT WORTH, NA	2	2	4	4	21S	37E	672799	3598121	784	--	3,474	--
2	CP 00552	STK	3	MILLARD DECK		2	4	4	21S	37E	672700	3598022	825	31-Jul-76	3,477	75
3	CP 00127	IRR	3	INTERFIRST BANK FORT WORTH, NA	3	1	2	9	21S	37E	672212	3597110	1,678	--	3,481	--
4	CP 00165	IRR	3	INTERFIRST BANK FORT WORTH, NA	4	2	2	9	21S	37E	672814	3597117	1,720	--	3,472	--

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/IWATERS/wr_RegisServlet1)

^A = In acre feet per annum

^B = In meters

^C = Elevation interpolated from USGS topographical map based on referenced location.

IRR = Irrigation

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

-- = Data not provided on the NM iwaters website

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Hill Tank Battery

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	In-Situ	07-Oct-16	15.0	160	--	--	--	--	--	--	--	--	--
	1	In-Situ	07-Oct-16	0.0	240	--	--	--	--	--	--	--	--	192
	2	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
SP2	Surface	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
	1	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	32
	2	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
SP3	Surface	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
	1	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	80
	2	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
SP4	Surface	In-Situ	07-Oct-16	0.0	360	--	--	--	--	--	--	--	--	--
	1	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	64
	2	In-Situ	07-Oct-16	0.0	80	--	--	--	--	--	--	--	--	--
	Comp	In-Situ	12-Dec-16	--	160	--	--	--	--	--	--	--	--	64
SP5	6"	In-Situ	07-Feb-17	4.6	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	32
SP6	6"	In-Situ	07-Feb-17	1.7	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.6	36.6	32
SP7	6"	In-Situ	07-Feb-17	2.3	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	16
SP8	6"	In-Situ	07-Feb-17	4.1	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.5	20.5	64
SP9	6"	In-Situ	07-Feb-17	4.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
NMOCD Recommended Remedial Action Levels				100		10				50			100	250

-- = Not Analyzed

ATTACHMENTS

ATTACHMENT I
Photographs



Photograph #1 – Tank battery struck by lightning



Photograph #2 – Tank battery struck by lightning



Photograph #3 – Tank battery struck by lightning



Photograph #4 – Looking across release area



Photograph #5 – Rebuilt tank battery with new liner



Photograph #6 – Rebuilt tank battery with new liner



Photograph #7 – Sampling the area south of the battery



Photograph #8 – Sampling the area south of the battery



Photograph #9- Looking across excavation around SP4



Photograph #10- Blending the soil around SP4



Photograph #11- Blended soil backfilled



Photograph #12- Blended soil backfilled

ATTACHMENT II
NMOSE Average Depth to Groundwater



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00552			LE	2	4	04	21S	37E		672700	3598022*	825	90	75	15
CP 00553			LE	2	4	04	21S	37E		672700	3598022*	825	90	75	15

Average Depth to Water: **75 feet**

Minimum Depth: **75 feet**

Maximum Depth: **75 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 672375

Northing (Y): 3598781

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

ATTACHMENT III
Laboratory Analytical Results



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

October 25, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/20/16 15:26.

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

Analytical Results For:

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

Received: 10/20/2016
Reported: 10/25/2016
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 10/07/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 (1') (H602357-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/24/2016	ND	400	100	400	3.92	

Sample ID: SP 2 (1') (H602357-02)

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	10/24/2016	ND	400	100	400	3.92	

Sample ID: SP 3 (1') (H602357-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/24/2016	ND	400	100	400	3.92	

Sample ID: SP 4 (1') (H602357-04)

Chloride, SM4500Cl-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	10/24/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

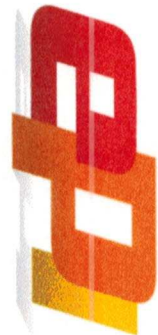
2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form
LAB Cardinal

Bill To

ANALYSIS REQUEST



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

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 Hill Tank Battery

Location UL- Sec. 4, T21S, R37E

Project Reference

EPI Sampler Name David Robinson

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		ANALYSIS REQUEST									
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ⁼)	pH	TCLP	OTHER >>>	PAH
H1002357	1 SP1 (1')	G	1			X					X		07-Oct-16	10:01			X					
	2 SP2 (1')	G	1			X					X		07-Oct-16	10:31			X					
	3 SP3 (1')	G	1			X					X		07-Oct-16	11:16			X					
	4 SP4 (1')	G	1			X					X		07-Oct-16	11:46			X					
	5																					
	6																					
	7																					
	8																					
	9																					
	10																					

Sampler Relinquished:

Date 10-10-16 Time 6:00 am

Received By: [Signature]

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

NOTES:

Relinquished by: [Signature]

Date 10/20/16 Time 3:30 pm

Received By: (lab staff) [Signature]

Checked By: [Signature]

Delivered by: [Signature]

-8.10

Sample Cool & Intact Yes

Checked By: [Signature]

#75

December 16, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/12/16 15:35.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2016
Reported: 12/16/2016
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 12/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 (H602782-01)**Chloride, SM4500Cl-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	12/14/2016	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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 Form

LAB Cardinal

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 Hill Tank Battery

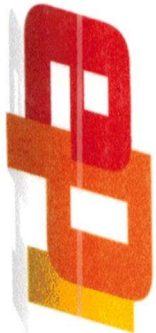
Location UL- Sec. 4, T21S, R37E

Project Reference

EPI Sampler Name Kirby Bingham

Bill To

ANALYSIS REQUEST



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

LAB I.D.		SAMPLE I.D.		MATRIX							PRESERV.	SAMPLING																													
H002782		SP4		(G)RAB OR (C)OMP.		# CONTAINERS		GROUND WATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE		ICE/COOL		OTHER		DATE		TIME													
				C		1								X										X				12-Dec-16		13:00											
		1																														BTEX 8021B									
		2																														TPH 8015M									
		3																														CHLORIDES (Cl ⁻)									
		4																														SULFATES (SO ₄ ²⁻)									
		5																														pH									
		6																														TCLP									
		7																														OTHER >>>									
		8																														PAH									
		9																																							
		10																																							

Sampler Relinquished:

Date 12-12-16

Received By:

Relinquished by:

Date 12/16/16

Received By: (lab staff)

Delivered by:

-0.9c

Sample Cool & Intact

Checked By:

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



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

February 14, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HILL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/08/17 15:42.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 02/07/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (6") (H700327-01)

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	02/11/2017	ND	1.68	83.8	2.00	0.0733		
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907		
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214		
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153		
Total BTX	<0.300	0.300	02/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.5 % 73.6-140

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	02/14/2017	ND	416	104	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 77.5 % 35-147

Surrogate: 1-Chlorooctadecane 84.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 02/07/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 (6") (H700327-02)

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	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 73.6-140

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	02/14/2017	ND	416	104	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	36.6	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 71.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 02/07/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 (6") (H700327-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.7 % 73.6-140

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	02/14/2017	ND	416	104	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 89.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 02/07/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 8 (6") (H700327-04)

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	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.6 % 73.6-140

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	02/14/2017	ND	416	104	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	20.5	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 78.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: HILL TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL- SEC. 4, T21S, R37E

Sampling Date: 02/07/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 9 (6") (H700327-05)

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	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.5 % 73.6-140

Chloride, SM4500Cl-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	02/14/2017	ND	416	104	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 87.8 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

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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 Form
LAB Cardinal

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

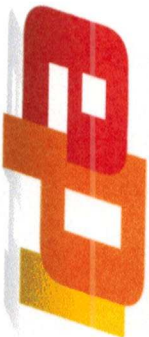
Client Company Vanguard

Facility Name Hill Tank Battery

Location UL- Sec. 4, T21S, R37E

Project Reference

EPI Sampler Name David Robinson



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

Bill To

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		ANALYSIS REQUEST						
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:		DATE	TIME							
1	SP5 (6")	G	1			X				X	07-Feb-17	13:00	X	X	X				
2	SP6 (6")	G	1			X				X	07-Feb-17	13:05	X	X	X				
3	SP7 (6")	G	1			X				X	07-Feb-17	13:10	X	X	X				
4	SP8 (6")	G	1			X				X	07-Feb-17	13:15	X	X	X				
5	SP9 (6")	G	1			X				X	07-Feb-17	13:20	X	X	X				
6																			
7																			
8																			
9																			
10																			

Sampler Relinquished:

David Robinson

Date 2-8-17
Time 6:00 am

Received By: [Signature]

Date 2/8/17
Time 3:42 pm

Received By: [Signature]

Sample Cool & Intact
Yes No

Checked By: [Signature]

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

NOTES:

Relinquished by:

[Signature]

Date 2/8/17
Time 3:42 pm

Received By: [Signature]

Date 2/8/17
Time 3:42 pm

Received By: [Signature]

Sample Cool & Intact
Yes No

Checked By: [Signature]

Delivered by:

[Signature]

Date 2-8-17
Time 6:00 am

Received By: [Signature]

Date 2/8/17
Time 3:42 pm

Received By: [Signature]

Sample Cool & Intact
Yes No

Checked By: [Signature]

ATTACHMENT IV
E-mail Correspondence
Liner Specifications
Disposal Tickets

REVIEWED

By Olivia Yu at 9:09 am, May 02, 2017

From: [Yu, Olivia, EMNRD](#)
To: ["Daniel Dominguez"](#)
Cc: [Oberding, Tomas, EMNRD](#)
Subject: RE: Reports needing review and approval
Date: Tuesday, February 7, 2017 4:35:00 PM

Dear David:

I am not sure if Tomáš already informed you. I hope the below points that you requested clarification from our meeting on Feb 3 will address some of your concerns.

- 1) Depth to groundwater: As I mentioned and I think we agreed upon, workplans optimally should include data from the Chevron Trend Map and OSE data. Use the more conservative depth to groundwater for planning delineation.
- 2) While it is not a mandatory requirement to analyze the 'surface' sample, NMOCD highly recommend that surface samples are taken and analyzed despite apparent contamination as important baseline points of reference.
- 3) Hill Battery (1RP-4450): The work on the pad that was done prior to your involvement has been referred to Santa Fe. The consensus is that delineation samples are still required from within the berm, despite the cleanup. Are you still involved as a consultant for the incident? In other words, will you be able to obtain the necessary samples from within the bermed area that you were not initially responsible for?

From: Yu, Olivia, EMNRD
Sent: Monday, January 30, 2017 5:00 PM
To: Daniel Dominguez <ddominguezepi@gmail.com>
Subject: RE: Reports needing review and approval

Dear Mr. Dominguez:

I have concerns regarding the reports. They are listed below. Please address them. You are welcome to contact me if you have questions or need clarification.

FYI. The standard procedure is to submit an initial C-141, followed by a work plan with details on delineation/release characterization to NMOCD for approval. Then, depending on the conditions of approval (COAs), NMOCD will respond accordingly. Only afterwards, should a final remediation report and final C-141 be submitted.

Thanks,
Olivia

Hill Battery: 1RP-4450

I do not agree with your Request for No Further Action. A work plan to delineate/characterize release is required especially since there was a fire. Is this site already back in operation?

1. Did you test the soil samples for BTEX and TPH? If not, why?
2. Check the NM Office of State Engineer (OSE) for depth to groundwater.
3. A lined facility does not mean exemption from NMOCD regulations.

From: Chuck Johnston
To: [Yu, Olivia, EMNRD](#)
Subject: FW: Hill Tank Battery Samples 1RP 4450
Date: Monday, March 20, 2017 7:03:43 AM
Attachments: [image001.png](#)
[image004.png](#)
[H700327 EPI.pdf](#)
[sundance 1.pdf](#)
[sundance 2.pdf](#)

Olivia, as requested please see the attached files for the Hill Central Battery and where I sent to Dr. Oberding below.

Thanks,

Chuck Johnston
EHS / Operations Specialist
432-202-4771 Cell
432-248-8154 Office



From: Chuck Johnston
Sent: Tuesday, February 21, 2017 1:09 PM
To: 'Oberding, Tomas, EMNRD'
Subject: FW: Hill Tank Battery Samples 1RP 4450

Dr. Oberding, please find attached the sample map and results of the containment area of the Hill Central Battery. I have also attached the soil disposal tickets to Sundance for the Hill battery as well. Let me know if you need anything else.

Chuck Johnston
EHS / Operations Specialist
432-202-4771 Cell
432-248-8154 Office



From: Daniel Dominguez [<mailto:ddominguezepi@gmail.com>]
Sent: Tuesday, February 21, 2017 9:47 AM
To: Yu, Olivia, EMNRD; Chuck Johnston; brandon boone
Subject: Hill Tank Battery Samples

EXTERNAL - This is an EXTERNAL email. Exercise caution. DO NOT open attachments or

Ms. Yu,

Attached are the sample results for the Hill Tank Battery. The samples were collected from inside the bermed area.

--

Sincerely,
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant/Safety Director

Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, NM 88231
(575) 631-0401 (Cell)
(575) 394-3481 (Office)
(575) 394-2601 (fax)

PROPERTIES	TEST METHOD	DURA•SKRIM R20WW	
		English	Metric
APPEARANCE		White/White	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT PER MSF		105 lbs.	48 kg
CONSTRUCTION		Extrusion laminated with scrim reinforcement	
*1" TENSILE STRENGTH	ASTM D751	75 lbf.	334 N
ELONGATION AT PEAK STRENGTH (90 LBS)	ASTM D751	25%	25%
ELONGATION AT BREAK	ASTM D751	900%	900%
*GRAB TENSILE	ASTM D751	150 lbf.	668 N
TENSILE STRENGTH AT YIELD	ASTM D882	94 lbf.	419 N
PUNCTURE STRENGTH	ASTM D4833	39 lbf.	174 N
*TRAPEZOID TEAR	ASTM D4533	95 lbf.	423 N
HYDROSTATIC RESISTANCE	ASTM D751	150 psi	1034 kPa
MAXIMUM USE TEMPERATURE		180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C
PERMEABILITY			
WVTR	ASTM E96 **Method A	0.010 g/100in ² /day	0.155 g/m ² /day
PERM RATING	ASTM E96 **Method A	0.022 U.S. Perms	0.015 Metric Perms

*Tests are an average of diagonal directions.

**All testing was performed at 73°F and 50% relative humidity.



DURA•SKRIM R20WW is a white four layer reinforced extrusion laminate. The outer layers consist of high-strength, virgin, linear low density polyethylene film. The white layers contain U.V. and thermal stabilizers. DURA•SKRIM R20WW is reinforced with a ply of a 1000 denier polyester scrim laid in a diagonal pattern spaced 3/8" apart with an additional machine direction scrim every 3" across the width. The individual plies are laminated together with black molten polyethylene.

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

RAVEN
INDUSTRIES
Flexible Films Department

PLANT LOCATIONS

Sioux Falls, South Dakota
Springfield, Ohio

www.dura-skrim.com

SALES OFFICE

P.O. Box 5107
Sioux Falls, SD 57117-5107
(605) 335-0174
(605) 331-0333 - FAX
800-635-3456

Sundance Services, Inc.

P. O. Box 1737
Eunice, NM 88231

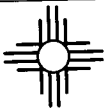
Invoice

DATE	INVOICE #
9/30/2016	101815

BILL TO
Vanguard Permain 4001 Penbrook St Suite 201 Odessa, TX 79762

PROJECT	TERMS
HILL BATTE...	

QUANTITY	DESCRIPTION	RATE	AMOUNT
60	Contaminated Soils - Exempt	25.00	1,500.00T
25	Fiberglass tank	27.00	675.00T
	HILL BATTERY #1		
	Sales Tax	7.3125%	159.05
Phone #		E-mail	
575-394-2511		acarrillo@sundanceservices.com	
Total			\$2,334.05



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 396387

LEASE OPERATOR/SHIPPER/COMPANY: Vanguard Lea

LEASE NAME: Hill Battery #1

TRANSPORTER COMPANY: Collier Backhoe

TIME 10:31 AM/PM

DATE: 9-29-16 VEHICLE NO: 1

GENERATOR COMPANY
MAN'S NAME: Bryan Haspard

CHARGE TO: Vanguard

RIG NAME
AND NUMBER 575-602-1788

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: 0/D

RRC or API # 30-025-06394

C-133#

VOLUME OF MATERIAL ☐ BBLs. _____

☒ YARD 12

☐ _____

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

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

DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 396397

LEASE OPERATOR/SHIPPER/COMPANY:

Vanguard

Lea

LEASE NAME:

Hill Battery #1

TRANSPORTER COMPANY:

Collier Backhoe

TIME 12:03 PM

DATE:

9-29-16

VEHICLE NO:

1

GENERATOR COMPANY
MAN'S NAME:

Bryan Haspelt

CHARGE TO:

Vanguard

RIG NAME
AND NUMBER

575-602-1788

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

O/D

RRC or API #

30-025-06394

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD 12

☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2519

TICKET No. 396415

LEASE OPERATOR/SHIPPER/COMPANY: Vanguard

LEASE NAME: Hill Battery #1

TRANSPORTER COMPANY: Collier Backhoe

DATE: 9-29-16

VEHICLE NO: 1

GENERATOR COMPANY
MAN'S NAME: Bryan Haspald

TIME 1:32 AM/PM

CHARGE TO: Vanguard

TYPE OF MATERIAL

☐ Production Water

☐ Tank Bottoms

☐ Solids

☐ Drilling Fluids

☒ Contaminated Soil

☐ BS&W Content:

☐ Rinsate

☐ Jet Out

☐ Call Out

Description: U/D

RRC or API # 36-125-66394

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD 12

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

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

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 396475

LEASE OPERATOR/SHIPPER/COMPANY: Vanguard
LEASE NAME: Hill Battery #1
TRANSPORTER COMPANY: Collier Backhoe TIME 10:49 AM/PM
DATE: 9-30-16 VEHICLE NO: 1 GENERATOR COMPANY MAN'S NAME: Bryan Haspard
CHARGE TO: Vanguard RIG NAME AND NUMBER

TYPE OF MATERIAL

- | | | |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: Oil

RRC or API #

30-025-06394

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD 12

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 396484

LEASE OPERATOR/SHIPPER/COMPANY: Vanguard

LEASE NAME: Hill Battery #1

TRANSPORTER COMPANY: Collier Backhoe

DATE: 9-30-16

VEHICLE NO: 1

GENERATOR COMPANY
MAN'S NAME: Bryan Hays

TIME 12:30 AM PM

CHARGE TO: Vanguard

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☒ Tank Bottoms

☒ Contaminated Soil

Solids

☐ BS&W Content:

☐ Call Out

Description: 0/D

RRC or API #

30-025-06394

C-133#

VOLUME OF MATERIAL

BBLS.

☒ YARD 12

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 396496

LEASE OPERATOR/SHIPPER/COMPANY:

Vanguard

LEASE NAME:

Hill Battery #1

TRANSPORTER COMPANY:

Blalderama Rustabrut

TIME 2:36 AM/PM

DATE:

9-30-16

VEHICLE NO:

2

GENERATOR COMPANY
MAN'S NAME:

Bryan Haspard

CHARGE TO:

Vanguard

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

500 bbl. Fiberglass Tank

\$27.00

(Broken)

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD 25

☐

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

Sundance Services, Inc.

P. O. Box 1737
Eunice, NM 88231

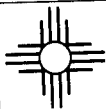
Invoice

DATE	INVOICE #
9/30/2016	101814

BILL TO
Vanguard Permain 4001 Penbrook St Suite 201 Odessa, TX 79762

PROJECT	TERMS
HILL BATTE...	

QUANTITY	DESCRIPTION	RATE	AMOUNT
240	BS&W Tank Bottoms	6.00	1,440.00T
35	Solids	6.00	210.00T
2	Trailer Jetout	100.00	200.00T
	HILL BATTERY	7.3125%	135.28
	Sales Tax		
Phone #		E-mail	
575-394-2511		acarrillo@sundanceservices.com	
Total			\$1,985.2



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **395511**

LEASE OPERATOR/SHIPPER/COMPANY:

Vanguard Permian

LEASE NAME:

Hill Battery

TRANSPORTER COMPANY:

Parker Energy

TIME *9:03* AM/PM

DATE:

9/19/11

VEHICLE NO:

23

GENERATOR COMPANY
MAN'S NAME:

JT Terry

CHARGE TO:

Vanguard Permian

RIG NAME
AND NUMBER

575-390-66612

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☐ Contaminated Soil

☐ Jet Out

☐ Solids

☒ BS&W Content:

☐ Call Out

Description:

B/S

RRC or API #

C-133#

VOLUME OF MATERIAL

☒ BBLS. *120*

☐ YARD

☐

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DRIVER:

Diego Corcoran
(SIGNATURE)

FACILITY REPRESENTATIVE:

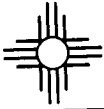
Stephanie Bahena
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **395553**

LEASE OPERATOR/SHIPPER/COMPANY:

Vanguard

LEASE NAME:

Hill Battery

TRANSPORTER COMPANY:

Parker

TIME 4:06 AM (PM)

DATE:

9-19-16

VEHICLE NO:

23

GENERATOR COMPANY
MAN'S NAME:

J.T. Terry

CHARGE TO:

Vanguard

RIG NAME
AND NUMBER

SJS-390-6612

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☐ Contaminated Soil

☒ Jet Out

☐ Solids

☒ BS&W Content:

☐ Call Out

Description:

BS

RRC or API #

C-133#

Lea

VOLUME OF MATERIAL

☒ BBLs. 120

☐ YARD

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

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DRIVER:

Piero Corrales
(SIGNATURE)

FACILITY REPRESENTATIVE:

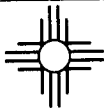
Raquel Aguirre
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **395610**

LEASE OPERATOR/SHIPPER/COMPANY: <u>Vanguard Permian</u>	
LEASE NAME: <u>Hill Battery</u>	
TRANSPORTER COMPANY: <u>Parker Energy</u>	TIME: <u>12:05</u> AM/PM
DATE: <u>9-20-16</u> VEHICLE NO: <u>23</u>	GENERATOR COMPANY MAN'S NAME: <u>J.T. Terry</u>
CHARGE TO: <u>Vanguard Permian</u>	RIG NAME AND NUMBER: <u>575-390-6612</u>

TYPE OF MATERIAL

- | | | |
|--|--|---|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Contaminated Soil | <input checked="" type="checkbox"/> Jet Out |
| <input checked="" type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Call Out |

Description: Solids

RRC or API # Loa C-133#

VOLUME OF MATERIAL ☒ BBLs. 35 : ☐ YARD : ☐

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DRIVER: [Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com

ATTACHMENT V
Copy of Initial NMOCD Form C-141
Final NMOCD Form C-141

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

REVIEWED

By Kristen Lynch at 8:58 am, Sep 27, 2016

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 Operating, LLC	Contact : Chuck Johnston	
Address: 4001 Penbrook Suite 201 Odessa, TX 79762	Telephone No. 432-202-4771	
Facility Name: Hill 001 Tank Battery	Facility Type: Tank Battery	
Surface Owner	Mineral Owner	API No. 30-025-06394

LOCATION OF RELEASE

Unit Letter B	Section 04	Township 21 S	Range 37E	Feet from the 3300	North/South Line N	Feet from the 1700	East/West Line East	County Lea
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Latitude 32.5131683 Longitude -103.1650925

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 100 bbls water and 15 bbls of oil	Volume Recovered: 100 bbls of produced water, 15 bbls of oil and rain water
Source of Release: Lightning struck tank causing fire and spill	Date and Hour of Occurrence: 9-16-2016	Date and Hour of Discovery 9-16-2016 2:36 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? George with OCD Hobbs	
By Whom? John Terry	Date and Hour: 9-16-2016 7:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

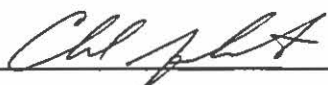

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck tank causing a fire which damaged all the tanks on site. Produced water and oil remained inside of the lined containment. Wells were shut in until weather permits repairs.

Describe Area Affected and Cleanup Action Taken.*

Damage was to tank and equipment inside of containment. Tanks will be removed and replaced. Any contaminated soil above the liner will be remediated and the liner replaced if damaged.

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: 9/27/2016	Expiration Date: N/A	
E-mail Address: cjohnston@vnrlc.com	Conditions of Approval: N/A	Attached <input type="checkbox"/> IRP 4450	
Date: 9-19-2016	Phone: 432-202-4771		

* Attach Additional Sheets If Necessary

nKL1627131848
pKL1627132054

District I
1625 N French Dr, Hobbs, NM 88240
District II
811 S First St, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

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: Hill 001 Tank Battery; IRP #4450	Facility Type: Tank Battery

Surface Owner:	Mineral Owner:	API No. 30-025-06394
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LOCATION OF RELEASE

Unit Letter B	Section 4	Township 21S	Range 37E	Feet from the 3300	North/South Line North	Feet from the 1700	East/West Line East	County Lea
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Latitude: N 32.5131683° Longitude: W 103.1650925°

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 100 bbls Water and 15 bbls oil	Volume Recovered: 100 bbls produced water. 15 bbls oil and rain water
Source of Release: Lightning struck tank causing fire and spill	Date and Hour of Occurrence: 9-16-2016	Date and Hour of Discovery: 9-16-2016 @ 2:36 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? George with OCD Hobbs	
By Whom? John Terry	Date and Hour: 9-16-2016 @ 7:00 am	
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		

APPROVED

By Olivia Yu at 11:40 am, Jun 28, 2017



Describe Cause of Problem and Remedial Action Taken.*

Lightning struck tank causing a fire which damaged all the tanks on site. Produced water and oil remained inside of the lined containment. Wells were shut in until weather permits repairs.

Describe Area Affected and Cleanup Action Taken.*

Damage was to tank and equipment inside of containment. Tanks will be removed and replaced. Any contaminated soil above the liner will be remediated and the liner replaced if damaged. Samples were collected and sent to the lab for testing. Based on laboratory analytical data, NMOCD has approved no further action required at this site.

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: 6/28/2017	Expiration Date: xx/xx/xxxx
E-mail Address: cjohnston@vnrllc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-23-17	Phone: 432-202-4771	

* Attach Additional Sheets If Necessary

1RP-4450