ENVIRONMENTAL PLUS, INC.

2100 Ave 'O' P.O. Box 1558 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

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-RaeTM 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@vnrllc.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

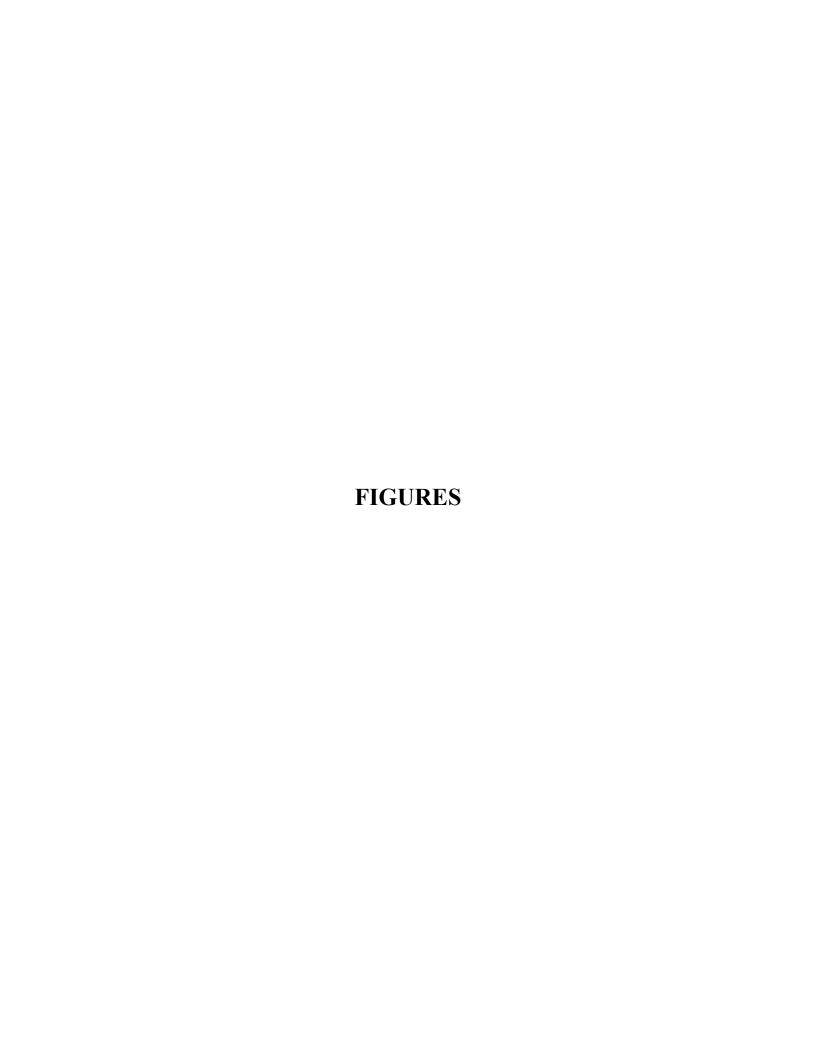
Attachment I – Photographs

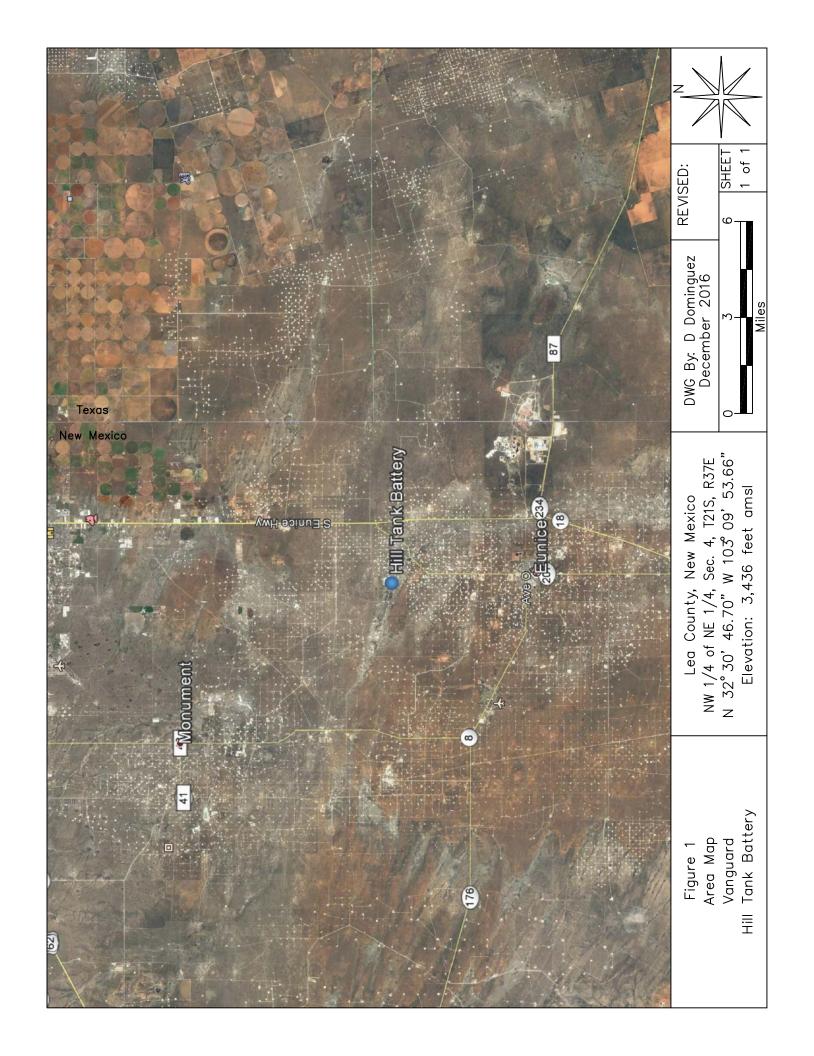
Attachment II – NMOSE Average Depth to Groundwater

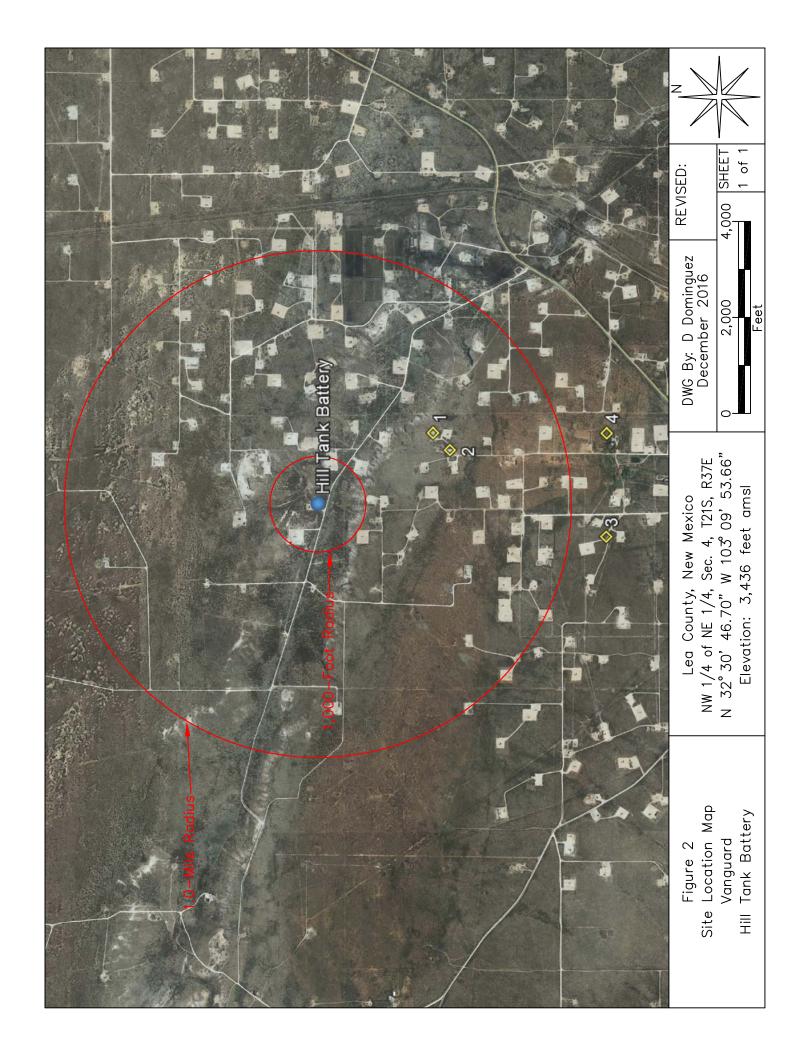
Attachment III – Laboratory Analytical Results

Attachment IV – E-mail Correspondence, Liner Specifications, Disposal Tickets

Attachment V – Copy of Initial NMOCD Form C-141, Final NMOCD Form C-141







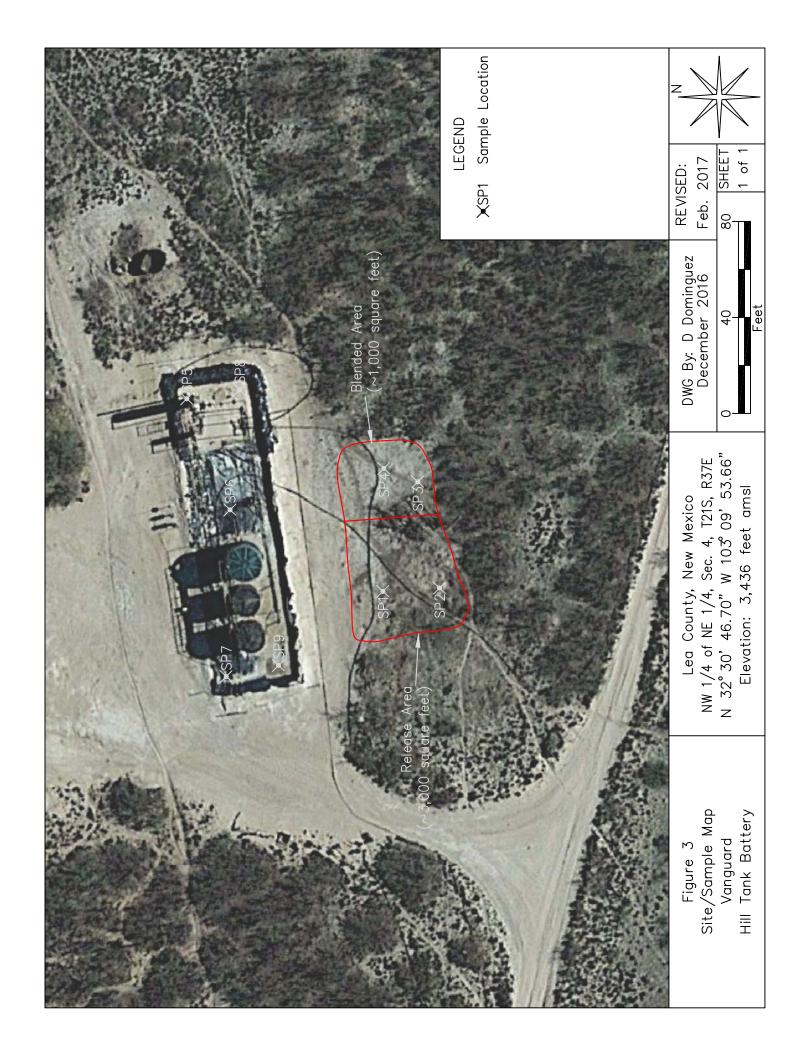




TABLE 1

Well Data

Vanguard - Hill Tank Battery

Well Number	Use	Use Diversion ^A	Owner	d64 (d16	- 4p	Sec T	wsp R	ng Easti	q64 q16 q4 Sec Twsp Rng Easting Northing Distance	. Distance ^B	Date Measured	Date Surface Measured Elevation ^C	Depth to Water
														(ft bgs)
	IRR	3	INTERFIRST BANK FORT WORTH, NA 2 2 4 4 21S 37E 672799 3598121	2	2	4	4 2	3. ST	7E 6727	3598121	784	1	3,474	1
	STK	3	MILLARD DECK		2	4	4 2	11S 3'	7E 6727	. 21S 37E 672700 3598022		825 31-Jul-76 3,477	3,477	75
	IRR	3	INTERFIRST BANK FORT WORTH, NA 3 1 2 9 21S 37E 672212 3597110	3	1	2	9 2	11S 3'	7E 6722	3597110	1,678		3,481	1
	IRR	3	INTERFIRST BANK FORT WORTH, NA	4	2	2	9 2	3.	7E 6728	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)

 $^{\mathrm{C}}=\mathrm{Elevation}$ interpolated from USGS topographical map based on referenced location. $^{\mathrm{B}}=$ In meters A = In acre feet per annum

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

-				PID	Field	,		:	Total	Total	GRO	DRO	Total	
Lab Sample ID	Depth (feet)	Soil Status	Sample Date	Reading (ppm)	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	C6-C10 (mg/Kg)	C10-C28 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
	Surface	In-Situ	07-Oct-16	15.0	160	-	-	:	-	1	ŀ	1	1	ł
SP1	1	In-Situ	07-Oct-16	0.0	240	ŀ	1	1	ŀ	ŀ	l	ŀ	I	192
	2	In-Situ	07-Oct-16	0.0	08				-	-	1		1	;
	Surface	In-Situ	07-Oct-16	0.0	80	1	1	1	1	1	ł	l	ı	ł
SP2	1	In-Situ	07-Oct-16	0.0	08	1	1	1	1	l	I	ŀ	ŀ	32
	2	In-Situ	07-Oct-16	0.0	08	-		-	-	-	I	-	-	:
	Surface	In-Situ	07-Oct-16	0.0	08	-	-	-	-	1	ŀ	ŀ	-	ł
SP3	1	In-Situ	07-Oct-16	0.0	08	1	-	1	1	I	I	ŀ	I	08
	2	In-Situ	07-Oct-16	0.0	08				-	-	1	-	-	+
	Surface	In-Situ	07-Oct-16	0.0	360	-	-	-	-	1	ŀ	1	-	1
CD4	1	In-Situ	07-Oct-16	0.0	08						-		1	64
5I.4	2	In-Situ	07-Oct-16	0.0	08				-	-	1		1	-
	Comp	In-Situ	12-Dec-16	I	160	1	-	1	!	I	l	ı	ı	64
SP5	9	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	9	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	9	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	9	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
6dS	9	In-Situ	07-Feb-17	4.0	08	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
NMOCD	Recomm I	NMOCD Recommended Remedial Action Levels	edial Action	100		10				50			100	250
= Not Analyzed						1								



ATTACHMENT I Photographs





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)

3 ,	/			•	, , ,		,	•	,	
	POD									
	Sub-	QQQ	!					Depth	Depth	Water
POD Number	Code basin County	y 64 16 4	Sec Tws	Rng	Х	Υ	Distance	Well	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

UTMNAD83 Radius Search (in meters):

Easting (X): 672375 **Northing (Y):** 3598781 **Radius:** 2000

ATTACHMENT III Laboratory Analytical Results



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/ga/lab accred certif.html.

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

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

Celey D. Keine

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



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

Fax To: (505) 394-2601

Received: 10/20/2016 Sampling Date: 10/07/2016

Reported: 10/25/2016 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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') (H6	02357-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/24/2016	ND	400	100	400	3.92	
Sample ID: SP 3 (1') (H6	02357-03)								
Sample ID: SP 3 (1') (H6	=	/kg	Analyze	d By: AC					
	=	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B	mg	-		•	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500CI-B Analyte	Result	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result 80.0 02357-04)	Reporting Limit	Analyzed 10/24/2016	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: SP 4 (1') (H6	Result 80.0 02357-04)	Reporting Limit	Analyzed 10/24/2016	Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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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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Celeg D. Freene

Environmental Plus, Inc.

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

P.O. Box 1558, Eunice, NM 88231

Delivered by:	Relinquished by:	Sampler Relinquished.			10	9	8	7	6	5	4 SP4 (1')	3 SP3 (1')	2 SP2 (1")	1 SP1 (1')	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name
Sample Cod & Intact	Mac/O) and	Time 6:00 am	10 10 16))))	SAMPLE I.D.		David Robinson		UL- Sec. 4, T21S, R37E	Hill Tank Battery	Vanguard	575-394-3481 / 575-394-2601	Eunice New Mexico 88231	P.O. BOX 1558	Daniel Dominguez	Environmental Plus, Inc.
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#15

Chain of Custody Form

LAB

Cardinal



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: 12/12/2016 Sampling Date: 12/12/2016
Reported: 12/16/2016 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

Sample ID: SP 4 (H602782-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2016	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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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

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Time 2:00 pm Date 12-12-18 Received by Time 2:00 pm Date 1/12/4 Received by Time 3:05 pm Time 3:05 pm Sample Cedi & Intact No											SP4		SAMPLE I.D.		Kirby Bingham		UL- Sec. 4, T21S, R	Hill Tank Battery	Vanguard	575-394-3481 / 575-394-2601	Eunice New Mexico 88231			າental Plus,	Eunice, NM 88231 FAX: (575) 394-2601	CIItal I lus, IIIC.	Environmental Plus Inc
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E-mail results to: ddominguezepi@gmail.com & bboone.epi@gmail.com NOTES:												12-Dec-16	DATE	SAMPLING	200	P.O. Box 1558	Attn: Daniel Dominguez	•						0			
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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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	84.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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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Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	83.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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							

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02/07/2017



Analytical Results For:

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

Received: 02/08/2017 Sampling Date:

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/14/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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							

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

Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil
Project Name: HILL TANK BATTERY Sampling Condition: Cool

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	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	82.6 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	88.1 9	% 28-171							

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Fax To: (505) 394-2601

Received: 02/08/2017 Sampling Date: 02/07/2017

Reported: 02/14/2017 Sampling Type: Soil

Project Name: HILL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL- SEC. 4, T21S, R37E

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	81.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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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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

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Celey D. Keine

Environmental Plus, Inc.

Chain of Custody Form

	Relinquished by: Delivered by:	Sample Remidusired	Sampler Belinguished:	10	9	8	7		лы			2	1	LAB I.D. H700327		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	(575) 394-3481	2100 Avenue O,	THE PERSON NAMED IN COLUMN
(15,50 (Yes) Time (14) Time (14) Time (14) Yes, 21 Yes, 21	Date 2-8-17							SB0 (6")				SP5 (6")	SAMPLE I.D.		ne David Robinson	ce	UL- Sec. 4, T21S,	Hill Tank Battery	Vanguard	# 575-394-3481 / 575-394-2601	Eunice New Mexico 88231		ager	Environmental Plus, Inc.	FAX: (575) 394-2601	2100 Avenue O, Eunice, NM 88231	montar i mo, inc.
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ATTACHMENT IV E-mail Correspondence Liner Specifications Disposal Tickets

REVIEWEDBy 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

click links from unknown senders or unexpected email.

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)

DURA-SKRIM®

PROPERTIES	TEST METHOD	DURA+SK	RIM R20WW
		English	Metric
APPEARANCE		White	e/White
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT PER MSF		105 lbs.	48 kg
Construction		Extrusion laminated v	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/100in²/day	0.155 g/m²/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.



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Sundance Services, Inc.

Invoice

P. O. Box 1737 Eunice, NM 88231

DATE	INVOICE#
9/30/2016	101815

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

PROJECT	TERMS
HILL BATTE	

QUANTITY	DESCRIPT	TION	RATE	AMOUNT
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	HILL BATTERY #1 Sales Tax		7.3125%	159.05
Phone #	E-mail		Total	\$2,334.05
575-394-2511	acarrillo@sundanceservices.com			

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White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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White - Sundance

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Canary - Sundance Acct #1

Pink - Transporter

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[] Production Water [] Tank Bottoms [] Solids Description:		[] Rinsate [] Jet Out [] Call Out Exchange [] Exchange [] Tank
TICKET, OPERATOR/SHIPPER REPRESEN	TS AND WARRANTS THAT THE WA	C-133# E MATERIALS SHIPPED WITH THIS JOB STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME Of et seq., AND REGULATIONS RELATED

THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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

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

DRIVER: (SIGNATURE)	
FACILITY REPRESENTATIVE:	

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

Vanguard Permain
4001 Penbrook St
Suite 201
Odessa, TX 79762

TERMS

			HILL BATTE			
				RATE		AMOUNT
YTITMAUQ		DESCRIPTION			6.00	1,440.00T 210.00T
3515	BS&W Tank Bottoms Solids Trailer Jetout			1	6.00	200.00T
	HILL BATTERY Sales Tax			7.3	125%	135.28
Phone #				Tota	I	\$1,985
1 Horie #	acarrillo@sundand	ceservices.com				

SUNDANCE SERVIC P.O. Box 1737 Eunice, New Mexico (575) 394-2511	ES, Inc.	ICKET No.	395511
LEASE OPERATOR/SHIPPER/COMPANY:	grand Per	made	-
LEASE NAME: HILL BULLEY		TIA	ME() () AM/PM
TRANSPORTER COMPANY: POlker E	MITA () GENERATOR		- 1.0 /Ally/1111
DATE: VEHICLE NO: 93		N'S NAME:	10114
CHARGETO: Varauand	Parmicker RIGNAMI AND NUM	E MBER 57	5-370-6012
TY	PE OF MATERIAL		
[] Production Water	[] Drilling Fluids	[] Rinsat	e
[] Tank Bottoms	[] Contaminated Soil	[] Jet Ou	ıt
[] Solids	BS&W Content:	[] Call O	ut
B/<	/		
Description:		C-133#	
RRC or API #			
VOLUME OF MATERIAL WBBLS. 120	_: [] YARD	:	[]
AS A CONDITION TO SUNDANCE SERVICES TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVEL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVI TICKET. TRANSPORTER REPRESENTS ANI	SERVATION AND RECOVERY ACT LTH AND SAF. CODE § 361.001 et DRDED DRILLING FLUIDS, PRODI OPMENT OR PRODUCTION OF CES, INC.'S ACCEPTANCE OF THE	OF 1976, AS AI t seq., AND REC UCED WATERS, CRUDE OIL O MATERIALS SH THE MATERI	MENDED FROM TIME SULATIONS RELATED , AND OTHER WASTE R NATURAL GAS OR IIPPED WITH THIS JOB AL DELIVERED BY
OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpor above described location, and that it was tend materials were added to this load, and that the	er loaded the material represented ered by the above described shipp material was delivered without in	d by this Transp per. This will cer	orter Statement at the
DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	ref hanii Baheu	2	

Canary - Sundance Acct #1

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

White - Sundance

Pink - Transporter

SUNDANCE SERV P.O. Box 1737 Eunice, New M (575) 394-2511	ICES, Inc.	TICKET No. 3	95553
DATE: 9 - 19-16 VEHICLE NO: Z	3	GENERATOR COMPANY TO THE MAN'S NAME:	1206AMPM) Jeiry 390-661
CHARGETO: Vanguara	<u> </u>		
[] Production Water [] Tank Bottoms [] Solids	[] Drilling Fluids [] Contaminated S BS&W Content:	[] Rinsate	
Description: BS			
RRC or API #		C-133#	_ea
VOLUME OF MATERIAL KABBLS. 120) : [] YAR):	[]
AS A CONDITION TO SUNDANCE SERVICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, TO TIME, 40 U.S.C. § 6901, et seq., THE NN	CONSERVATION AND RECO	VERY ACT OF 1976 AS AMEN	NDED FROM TIME ATIONS RELATED

THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUID ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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

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

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

Canary - Sundance Acct #1

Pink - Transporter

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

SU	P.O. Box 1737 Eunice, New (575) 394-251	Mexico 882 3 1 '	TICKET No.? 395610
LEASE OPERATOR	/SHIPPER/COMPANY: Va	inauand Pera	rich
LEASE NAME:	Hill B	xtferil	(0) - ()
TRANSPORTER C	OMPANY: PORKO		TIME/2.05 (AMVPM
DATE: 0 - 21	- /Lp VEHICLE NO:	23 J'GENERA	ATOR COMPANY J. T. Tervi
CHARGE TO:	Vanguard		NAME 575-340-6612
	· .	TYPE OF MATERIAL	
	[] Production Water	[] Drilling Fluids	[] Rinsate
	[] Tank Bottoms	[] Contaminated Soil	✓ Jet Out
	X Solids	[] BS&W Content:	[] Call Out
Descrip	tion: Solid	<u> </u>	
RRC or API #	3011	1,00	C-133#
RACOTATT#			
VOLUME OF MA	TERIAL NBBLS. 33	: [] YARD	: []
TICKET, OP MATERIAL I TO TIME, 40 THERETO, 6 ASSOCIATE GEOTHERM ALSO AS TICKET. T OPERATOR FACILITY F	ERATOR/SHIPPER REPRESENTS EXEMPT FROM THE RESOURCE, U.S.C. § 6901, et seq., THE NN BY VIRTUE OF THE EXEMPTION D WITH THE EXPLORATION, E HAL ENERGY. A CONDITION TO SUNDANCE SERVIS OF THE REPRESENTS	S AND WARRANTS THAT THE WAS , CONSERVATION AND RECOVERY A M HEALTH AND SAF. CODE § 361.00 I AFFORDED DRILLING FLUIDS, PR DEVELOPMENT OR PRODUCTION SERVICES, INC.'S ACCEPTANCE OF THE AND WARRANTS THAT ONL' IS NOW DELIVERED BY TRANSPO	RTER TO SUNDANCE SERVICES, INC.3

: Stephan Baheur

Canary - Sundance Acct #1

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

Pink - Transporter

FACILITY REPRESENTATIVE:

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

REVIEWED

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

District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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 Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction	l			
						OPERATOR Initial Report Final				Final Report		
						Contact : Chuck Johnston						
Address: 4001 Penbrook Suite 201 Odessa, TX 79762 Facility Name: Hill 001 Tank Battery						Telephone No. 432-202-4771 Facility Type: Tank Battery						
Facility Nan	ne: Hill ou	I Tank Batt	ery			acility Typ	e: Tank Battery					
Surface Own	ner			Mineral O	wner				API No	. 30-025-0	5394	
						OF REI						
Unit Letter B	Section 04	Township 21 S	Range 37E	Feet from the 3300	North/	h/South Line Feet from the East Feet from the Feet from th			Vest Line	County Lea		
		Latitud	le32.:	5131683		Longitude	,-103.165	0925_		_		
				NAT	URE	OF RELI	EASE					
Type of Relea	se: Oil and	Produced wa	terr		-	Transfer of the Arrest Addition	Release: 100 bbls	3		Recovered: 1 bbls of oil a		s of produced
Source of Rel	ease: Light	ning struck ta	nk causing	g fire and spill		Date and H 16-2016	our of Occurrence	e:9-		Hour of Dis		
Was Immedia	te Notice (Yes [No □ Not Re	quired	If YES, To George wit	Whom? h OCD Hobbs					
By Whom? Jo				100			our: 9-16-2016 7:	-				
Was a Watero	course Reac		Yes 🗓] - N o		If YES, Vo	lume Impacting th	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descr	be Fully.	1								
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.												
Damage was	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.												
	100	0	11				OIL CONS	SERV	ATION	DIVISIO	N	
Signature: Chl pl 4						negued by	Environmental Sp	acialist	. Krus	ten Lynch		
Printed Name	: Chuck Jo	hnston			F	approved by	Environmental Sp	retaiist	•	Ü		
Title: EHS					A	approval Date	9/27/2016	E	Expiration I	Date: N/A	12.	
E-mail Addre	ss: cjohnsto	on@vnrllc.com		75. 000 115-	c	Conditions of	Approval: N/A			Attached		
Date: 9-19-2	Charleston Co. Co.	ate If Noones		35\202-477 Phone:	1				-	1RP	4450	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
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 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action												
				OPERATOR								
Name of Company: Vanguard Address: 4001 Penbrook, Suite 201, Odessa Texas 79762						Contact: Chuck Johnston						
		ook, Suite 20 1 Tank Batt					No. 432-202-47					
		T Talik Dali	ciy, ma			active 1	ype. Tank Datter	у	1			
Surface Ow	ner:			Mineral C)wner:				API No	. 30-025	5-06394	
							LEASE					
Unit Letter B	Section 4	Township 21S	Range 37E	Feet from the 3300		South Lin North	Feet from the 1700		West Line East		County Lea	
Latitude: N 32.5131683° Longitude: W 103.1650925°												
				NATU	JRE C	FREL						
Type of Rele	ase: Oil and	d Produced W	ater				of Release: 100 bb d 15 bbls oil	ls			l: 100 bbls produ nd rain water	iced
			ınk causin	g fire and spill		Date and 9-16-20	Hour of Occurren	ce:	Date and 9-16-2016	Hour of E	Discovery:	
Was Immedia	ate Notice C		Yes	No Not Re	equired		Fo Whom? vith OCD Hobbs					
By Whom? J		1 10				Date and Hour: 9-16-2016 @ 7:00 am						
Was a Water	course Reac		Yes 🛛	No		If YES, Volume Impacting the Watercourse: Not Applicable						
If a Watercou	rse was Im			Not Applicable		APPROVED						
		,		· · · · · · · · · · · · · · · · · · ·		By Olivia Yu at 11:40 am, Jun 28, 2017						
Describe Cau	se of Proble	em and Remed	lial Action	Taken.*			By Cirvia	ru ut	11.40	um, c	Juli 20, 2	
Lightning str were shut in				naged all the tan	ks on sit	e. Produc	ed water and oil re	emained	inside of t	he lined o	containment. W	ells
Describe Are	a Affected :	ınd Cleanun A	etion Tak	en.*								
Damage was	to tank and	equipment in:	side of cor	itainment. Tanks	will be re	emoved ar	d replaced. Any co	ntamina	ted soil abo	ve the lin	er will be remed	liated_
and the liner of further action	replaced if or required at	lamaged. Sam this site.	ples were	collected and sen	it to the l	ab for test	ng. Based on labor	ratory and	alytical data	a, NMOC	D has approved	no
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to th	e best of n	y knowledge and u	understar	nd that nurs	uant to N	MOCD rules an	d
regulations al	l operators	are required to	report an	d/or file certain re	elease no	tifications	and perform corre	ctive acti	ions for rela	ases which	ch may endange	r
public health	or the envir	onment. The ave failed to a	acceptance dequately	e of a C-141 repo	rt by the	NMOCD	marked as "Final R ition that pose a thi	Report" d reat to an	oes not reli	eve the o	perator of liabili	ty salth
or the enviror	iment. In a	ddition, NMO	CD accep	tance of a C-141	report do	es not reli	eve the operator of	responsi	bility for co	, surface ompliance	with any other	
federal, state,	or local lav	vs and/or regu	lations.									7.0
	/1/	///	11				OIL CON	<u>SERV</u>	ATION	<u>DIVIS</u>	<u>ION</u>	
Signature: (M	bh	18						94			
Printed Name	: Chuck Jol	nston			Approved by Environmental Specialist:							
Title: EHS					A	Approval I	ale: 6/28/201	7	Expiration I	Date: XX	(/xx/xxxx	
E-mail Addre	ss: cjohnsto	n@vnrlle.con	1			Conditions	of Approval:			Attache	ed 🗆	
Date: /-	23-17	7	Phone:	432-202-4771								
Attach Additio	nal Sheet	: If Necessar					4.0	P-11	F0			