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

HOBBS OCD

Form C-141 Revised August 8, 2011

APR 2 9 2013 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Name of Compa	any XTO Energy	/		C	Contact Guy	y Pearce			
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Facility Name N	New Mexico "S"	State Tank	Battery #5	F	Facility Typ	be Active Tank	Battery		
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By Whom? Shelby	by Pennington (Exc	conMobil Co	orp.)	-	Date and H	Hour 3-20-10 @ 1	4:30		
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RP-2385

State of New Mexico District 1 Form C-141 1625 N French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resource RECEIVER Revised October 10, 2003 District II 1301 W Grand Avenue, Artesia, NM 88210 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back District III **Oil Conservation Division** 1000 Rto Brazos Road, Aztec, NM 87410 APR 22 (11) 1220 South St. Francis Dr. District IV side of form 1220 S St Francis Dr , Santa Fe, NM 87505 Santa Fe, NM 87505 HORRSOLL **Release Notification and Corrective Action OPERATOR** Final Report Initial Report Contact Toni Collier Name of Company ExxonMobil Telephone No. 281-654-1133 Address P.O. Box 4358, Houston, TX 77210 Facility Type Water Leg on Heater Treater Facility Name BDT State S Surface Owner : Walko Ranch Mineral Owner Lease No. NEARBY WELL NM S STATE #028 LOCATION OF RELEASE API # 30.025.25268.00.00 North/South Line Feet from the East/West Line Unit Letter Feet from the County Section Township Range 2 228 37E Les Latitude N32.25.26 Longitude W103.08.122 NATURE OF RELEASE Volume of Release 78.4 oil/8.7 Volume Recovered 75 oil/8.3 produced Type of Release Oil and water produced water water Source of Release Water leg on heater treater Date and Hour of Occurrence Date and Hour of Discovery 3/20/10 8:00AM 3/20/10 8:00AM Was Immediate Notice Given? If YES, To Whom? X Yes No Not Required E.L. Gonzales Date and Hour 3/20/10 2:30PM By Whom? Shelby Pennington Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes 🛛 No If a Watercourse was Impacted, Describe Fully.* WATER 60 60 Describe Cause of Problem and Remedial Action Taken.* 2" drain line water leg on heater broke off of heater due to groove in piping developing corrosion. Describe Area Affected and Cleanup Action Taken.* A vacuum truck was called out to pick up free fluid. Emergency one call was put in and contaminated soil was excavated. Site will be delineated and remediated according to NM guidelines. 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 **OIL CONSERVATION DIVISION** Signature^{*} ENV ENVIRANCE : Approved by District Supervisor Printed Name: Ashley Volante googl Title: Acting Compliance Supervisor Expiration Date: 06 28 10 Approval Date: 64/26/10 E-mail Address: Ashley.G.Volante@exxonmobil.com Conditions of Approval: DELINGATE JD Attached 🔲 CLEANS +1. SUBMIT FINAL C-141 BY 06128/10 Date: 4/21/10 Phone: 281-654-6119 RP-10-4,2489

Attach Additional Sheets If Necessary

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XTO Energy New Mexico "S" State Tank Battery #5 UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E Lea County, New Mexico NMOCD Ref. #1RP-10-4-2489; EPI Ref. #190041

Dear Mr. Leking:

The below *Remediation Closure Report (Report)* is an abbreviated version depicting prominent remedial activities conducted on the above referenced Release Area. However for clarity and cross reference elimination purposes, the *Report* includes *Release History, Site Background, Preliminary Field Work, Analytical Data and Procedures* and *Field Remediation Activities.*

Release History

On March 20, 2010 at 8:00 a.m. approximately 78.4-bbls of petroleum products and 8.7-bbls of produced water were released when a water leg broke away from an active heater treater. Approximately 75-bbls of petroleum and 8.3-bbls of produced water were recovered. The combined fluids covered a release area of $\pm 5,300$ square feet. After vacuuming petroleum products and produced water, field activities were initiated to mitigate the Release Area. Oily impacted material within the Release Area were blended with existing soil to stiffen and then transported to Sundance Services, Inc., for disposal. ExxonMobil (XTO) retained the services of Environmental Plus, Inc., (EPI) to GPS, photograph and delineate the release area.

Site Background

The Release Area is located in UL-F (SE1/4 of the NW1/4) of Section 02, T17S, R37E approximately 3,364-feet above mean sea level (amsl). The property is owned by the State of New Mexico and managed by New Mexico State Land Office (NMSLO). A search for water wells was completed utilizing the <u>New Mexico Office of the State Engineers</u> website and a database maintained by the United States Geological Survey (USGS). No water wells (domestic, agriculture or public) or bodies of groundwater exist within a 1,000-feet radius of the release area (reference *Figure 2*). Groundwater data indicates average water depth approximately 60-feet below ground surface (bgs). Based on available data, groundwater depth is approximately 45-feet



below impacted soil. Utilizing this information, NMOCD Remedial Threshold Goals for the release area were determined as follows:

Remedial Goal
10 mg/Kg
50 mg/Kg
100 mg/Kg
500 mg/Kg

Preliminary Field Work:

On May 21, 2010 EPI mobilized to the Release Area for delineation activities via sample trenches (ST). ST-1 was excavated to a depth of 6-feet and ST-2 to a depth of 11-feet bgs. Soil samples were collected at 1-foot intervals to ST total depth. On July 29, 2010 EPI mobilized to the Release Area and excavated ST-3 a total depth of 10-feet bgs. Soil samples were collected at selected intervals (2-, 3.5-, 5-, 7- and 10-feet bgs) for field analyses and laboratory analytical tests (reference *Figure 3*).

In response to NMOCD request, EPI and Straub Corporation mobilized to the Release Area on January 25, 2011 to determine exact depth of impacted material. A single soil boring was advanced in the center of the Release Area a total depth of 25-feet bgs. Impacted material extended from ground surface to 15-feet bgs. Soil samples for field analyses and laboratory analytical tests were collected at 5-feet intervals from ground surface to TD of the soil boring (reference *Table 2*). Upon completion of field analytical activities, the soil boring was plugged utilizing 3/8" pelletized bentonite and cement plug (reference *Well Records & Log*).

Due to concerns of number and exact location of buried pipelines, EPI and HydroTech mobilized to the Release Area on March 7, 2011. A trench was hydro-excavated from the east side of the Release Area to the lease road on the west side. Three (3) buried pipelines were discovered with two (2) 3-inch diameter steel pipelines running parallel north-south down west side of Release Area approximately four (4) feet east of the lease road. An eight-inch (8") diameter polyethylene pipeline crossed the lease road and skewers toward the east side of the Release Area (reference *Figure 4*). Bury depth of the 3" diameter pipelines is ± 2 -feet while the 8" diameter polyethylene pipeline is ± 4 -feet. Field observations indicate the steel and polyethylene pipelines will intersect near the south end of the release area. No soil samples were collected during this event.

Analytical Data and Procedures:

For activities described above and below where soil samples were collected, a portion of selected soil sample was field analyzed for organic vapor and chloride concentrations. Soil samples collected for field analysis of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples were then tested for organic vapor concentrations utilizing a MiniRae[™] Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene vapors. Chloride concentrations were field analyzed utilizing a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were immediately inserted into laboratory approved containers, properly labeled, placed in self sealing polyethylene bags, inserted into

coolers, iced down and transported to an independent laboratory for quantification of TPH [GRO (C6-C12) and DRO (>C12-C28)] and chloride concentrations under Chain-of-Custody protocol.

In noting *Table 2*, the Release Area is void of TPH concentrations above NMOCD Remedial Threshold Goals (NMOCD Goals) of 100-mg/Kg. Chloride concentrations elevated above NMOCD Goals of 500 mg/Kg terminate at fifteen (15) feet bgs.

Field Remediation Activities:

In viewing the physical location of the Release Area, it would require a very large excavation for removal of all chloride impacted material to fifteen (15) feet bgs. The north end is blocked by an active heater treater while the west side is confined by the lease road and existing pipelines. The east side contains surface steel flowlines to the active tank battery. Excessive excavation in the northerly direction would endanger the heater treater base. Removal of impacted material near the lease road would require a detour and closure of the north-south route. Benching of sidewalls would be limited due to the confined space in which to operate. Also, area for ingress/egress ramps was not sufficient to accommodate earth moving equipment. Hence, a trackhoe was used for both excavation and backfill operations. These obstacles were expounded in the original *Site Remediation Proposal* submitted to the NMOCD on April 29, 2011.

EPI mobilized to the Release Area on February 18, 2013 and began remedial activity. The two (2) 3-inch diameter steel lines were uncovered full length of the Release Area. Remainder of Release Area was surveyed using a pipe locater to ensure all pipelines had been identified. Excavation activities started on the north-east corner of the Release Area and proceeded in the southerly direction. From February 18-25, 2013, $\pm 1,626$ cubic yards of impacted material were excavated by a trackhoe and temporarily stockpiled on the southerly portion of Release Area. The impacted material was then loaded into dump trucks by a front end loader and transported to Sundance Services for disposal. As excavating activities started to undermine and expose the two (2) 3-inch steel pipeline, extendable metal pipe supports were installed to prevent sagging. This procedure was repeated by extending them until total depth was achieved. The 8-inch polyethylene pipe was rigid requiring no pipe supports.

After the easterly portion of excavation activities was completed to the southerly terminus, five (5) soil samples were collected from the east sidewall on February 22, 2013. Similarly, three (3) soil samples were collected from the bottom of the excavation in the north, middle and south sides on February 26, 2013 (reference *Figure 5*). As soil samples collected from excavation bottom were destined for laboratory analytical test for chloride concentrations, no field analyses were conducted. Soil samples were collected, processed and transported to an independent laboratory per *Analytical Data and Procedures* outlined in this *Report*.

Laboratory analytical results from east sidewall soil samples indicated it was void of chloride concentrations elevated above NMOCD Goals of 500mg/Kg. Chloride concentrations from bottom soil samples indicated both north and south end of the excavation were in compliance while the center was elevated above NMOCD Goals of 500 mg/Kg (reference *Table 3*).

After reaching excavation physical constraints for width and predetermined depth of seven (7) feet bgs, the bottom area was smoothed of irregularities and two (2) feet layer of cushion top soil deposited, smoothed and compacted via use of the trackhoe. On February 28, 2013 Akome Incorporated arrived at the excavation and installed $\pm 4,230$ square feet of 20-mil reinforced polyethylene liner in the bottom. After completing installation of the liner, a two (2) feet thick

layer of cushion top soil free of large clods, rocks or deleterious material was placed over the westerly portion. During backfill activities pipe support elevations were adjusted with height of backfill cushion material avoiding direct contact with the liner. Once the buried pipelines on the west side of the excavation were covered and all pipe supports removed, the trackhoe carefully placed cushion material in the easterly direction over the liner coincidental with backfill activities. From February 26 through March 5, 2013, $\pm 1,596$ cubic yards of topsoil were placed and compacted in the excavation.

Upon completion of backfill activities, the disturbed areas were contoured to prevent wind/water erosion, pooling of water and promote natural drainage. Remaining activity for completion of project is discing and deep drill seeding the disturbed areas with a seed mixture approved by the NMSLO. However, in view of drought conditions, it is recommended postponing this activity until ground and weather conditions are conducive to vegetative growth.

XTO and EPI personnel are cognizant this represents a "risk based" closure procedure, but feel it is justified under conditions described above in conjunction with an active tank battery supported by the heater treater. Upon closure and removal of the tank battery tankage, heater treater and infrastructure, remaining impacted material will be removed and area returned to natural state.

Should you have questions, concerns or need additional technical information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at <u>dduncanepi@gmail.com</u>.

Direct official communications to Mr. Guy Pearce at (575) 394-2089 (office), (575) 441-2965 (cellular) or via e-mail at guy_pearce@xto energy.com with correspondence addressed to:

Mr. Guy Pearce Production Foreman XTO Energy P.O. Box 700 Eunice, New Mexico 88231

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan Civil Engineer EPI Project Manager

Cc: Guy Pearce, Production Foreman – ETO Energy Jesse Miller. Vice President - EPI Roger Boone, Operations Manager - EPI Ben Sturgill, NMSLO – Hobbs, NM Steven Ikeda, NMSLO – Santa Fe, NM



Encl: Figure 1 – Area Map

- Figure 2 Site Location Map
- Figure 3 Site Sample Trench Map

Figure 4 - Site Map

Figure 5 - Soil Sample Location Map

Table 1 - Well Data

Table 2 – Summary of Sample Trenches and Soil Boring Soil Sample Field Analyses and Laboratory Analytical Data

Table 3 – Summary of Soil Samples Field Analyses and Laboratory Analytical Results

Attachment I - Site Photographs

Attachment II - Laboratory Analytical Results and Chain-of-Custody Forms

Attachment III - Sample Trench Logs (FM & OL Forms)

Attachment IV - Well Record & Log Office of the State Engineer

Attachment V – Copy of Initial NMOCD Form C-141

Final NMOCD Form C-141

FIGURES











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Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water
0	STATE OF NM STATE ENGINEER	EXP	22S	37E	02 3 3 3	N32° 24' 48.58"	W103° 08' 30.64"		3.379	(cfer an)
			22S	37E	4			14-Mar-68		54.46
			22S	37E	1 443			17-Mar-81		53.81
			22S	37E	1 444			28-Feb-96		54.15
			22S	37E	2 242			17-Mar-81		58.79
			22S	37E	2 442			09-Oct-53		53.3
			22S	37E	2 2 2 2			26-Feb-86		55.12
			22S	37E	3 432			27-Jan-76		32.58
			22S	37E	10 232			27-Jan-76		54.44
			22S	37E	10 132			27-Jan-76		65.59
			22S	37E				27-Jan-76		41.88
			22S	37E	11 224			26-Apr-91		54.87
			22S	37E	11 231			30-Jun-76		20.51
			22S	37E	12 114			26-Oct-65		57.4
			22S	37E	12 213			14-Oct-53		53.26
			22S	37E	12 212			14-Oct-53		53.82
			22S	37E	12 241			26-Oct-65		54.63
			21S	37E	35 2 2 4			22-Jan-76		55.77
			21S	37E	35 2 3 1			01-Feb-96		43.68
			21S	37E	35 244			23-Jan-76		58.29
			21S	37E	35 412			23-Jan-76		57.05
			21S	37E	35 422			23-Jan-76		58.97
			21S	37E	35 422			23-Jan-76		58.76
			21S	37E	35 434			23-Jan-76		62.44
			21S	37E	35 442			23-Jan-76		59.08
			21S	37E				25-Apr-91		54.51
			21S	37E	35 423			23-Jan-76		59.77
			21S	37E				23-Jan-76		58.88
			21S	37E	36 233			27-Jan-76		50.07
			21S	37E	36 311			02-Mar-81		60.08
			21S	37E	36 331			02-Mar-81		58.07
			21S	37E	36 344			09-Dec-70		55.48
			21S	37E	36 311			09-Dec-70		63.51
			21S	37E	36 3 3 1			27-Jan-76		62.21
A DESCRIPTION OF THE PARTY OF T	A REAL PROPERTY OF A REAL PROPER	State of the local division of the local div	225	37E	10 321			27-Jan-76		69.54
and the second se			22S	37E	10 321		The second s	17-Mar-81		66.05
			22S	37E	10 341	A DESCRIPTION OF A DESC		15-Feb-96	a market fragment	91.64
A REAL PROPERTY.		A RECEIPTION OF THE PARTY OF	22S	37E	11 322			18-Mar-96	A REAL PROPERTY.	38.97
		A NAME OF A DESCRIPTION	222	of second	The second s				And a	And a

 A = in acre feet per annum B = Interpolated from USGS Topographical Map

EXP = Exploration (quarters are 1=NW, 2=NE, 3=SW, 4=SE) (quarters are biggest to smallest - X Y are in Feet - UTM are in Meters) Shaded area indicates wells not shown on Figure 2

Summary Excavation and Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - New Mexico "S" State Tank Battery #5

NMOCD Ref.; EPI Ref. #190041

UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E; Lea County, New Mexicvo

		_	_		r		1	-	_		_		-		_					-	_
Chloride (mg/Kg)	736	608	512	400	624	384	<16	1,440	1,380	1,140	1,220	1,410	1,440	1,420	864	1,800	1,570	736	:	:	48
Total TPH C6-C35 (mg/Kg)	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	;	;	;
Carbon Ranges >C28-C-35 (mg/Kg)	1	1	:	1	:	1	:	:	:	;	:	:	:	;	;	;	:	:	:	:	:
Carbon Ranges >C10-C28 (mg/Kg)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	;	:	;
Carbon Ranges C6-C10 (mg/Kg)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1	;	1
Total BTEX (mg/Kg)	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	<0.450	;	:	:
Total Xylenes (mg/Kg)	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	;	;	;
Ethylbenzene (mg/Kg)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	:	;	:
Toluene (mg/Kg)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	;	:	;
Benzene (mg/Kg)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	;	;	;
Field Chloride (mg/Kg)	880	800	720	560	720	480	240	1,280	1,600	1,280	1,280	1,600	1,600	1,360	880	1,.440	1,040	560	280	640	280
PID Reading (ppm)	117	310	320	19.0	15.7	17.4	0.00	18.6	20.5	22.8	18.4	8.6	3.6	3.1	1.7	0.6	0.7	1.8	1.3	0.0	1.1
Sample Date	21-May-10	21-May-05	21-May-05	21-May-10	21-May-10	21-May-10	21-May-10	29-Jul-10	29-Jul-10	29-Jul-10											
Soil Status	In-Situ																				
Depth (feet)	1	2	3	4	5	6	1	-	2	3	4	5	9	7	90	6	10	11	2	3.5	5
Sample ID	ST-1	I-TS	I-TS	I-TS	I-TS	I-TS	BG-1	ST-2	ST-3	ST-3	ST-3										

Summary Excavation and Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - New Mexico "S" State Tank Battery #5

NMOCD Ref. ; EPI Ref. #190041

UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E; Lea County, New Mexicvo

Sample Date Reading Chloride (mg/Kg)
0.0 360
0.0 800
1,600
460
400
60
09
100 10

- - = Not Analyzed Soil Sample Nomenclature: BG = Background Reference; ST = Sample Trench; BH = Bottom Hole; SW = Sidewall (E = East, W = West, N = North and S = South); SP = Sample Point; SB - Soil Boring

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

NTO

New Mexico "S" State Tank Battery #5 (NMOCD Ref. #1RP-10-4-2489;EPI Ref. #190041)

UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	TOTAL Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Gas Range Organics (GRO) (C6-C10) (mg/Kg)	Diesel Range Organics (DRO) (>C10-C28) (mg/Kg)	Total Hydrocarbons (C6-C38) (mg/Kg)	Chloride (mg/Kg)
SP-1	5.5	In Situ	22-Feb-13	:	200	:	;	;	1	:	:	;	1	<16.0
SP-2	6.5	In Situ	22-Feb-13	ł	240	:	:	;	:	:	;	;	:	288
SP-3	9	In Situ	22-Feb-23	3	320	:	:	:	:	:	;	;	:	304
SP-4	6.5	In Situ	22-Feb-13	1	200	;	:	:	:	;	:	1	1	176
SP-5	5.5	In Situ	22-Feb-13	:	80	:	:	:	:	:	:	:	:	32.0
BH-1N (7')	7.0	In Situ	26-Feb-13	;	:	:	:	:	:	:	;	:	:	256
BH-2M (7')	7.0	In Situ	26-Feb-13	1	t	:	:	:	:	:	;	;	:	1,790
BH-3S (7')	7.0	In Situ	26-Feb-13	;	з	:	;	:	:	:	:	;	:	224
N	MOCD Ren	NMOCD Remedial Thresholds	solds	100		10				50			100	500
Bold values an	e in excess (of NMOCD F	Bold values are in excess of NMOCD Remediation Threshold Goals	shold Goals										

-- = Not Analyzed J = Detected, but below the Reporting Limit. Therefore, result is an estimated concentration (CPL J-Flag BG = Background Soil Boring

ATTACHMENT I

SITE PHOTOGRAPHS



Photograph No. 1 - Lease Sign



Photograph No. 2 – Looking northerly at release area and cleanup effort



Photograph No. 3 - Looking a broken water leg



Photograph No. 4 - Looking southerly at release area and cleanup efforts



Photograph #5 – Looking at intersection of two (2) three-inch steel and 8-inch poly pipelines



Photograph #6 – Looking southerly at two (2) three-inch steel pipelines with pipe supports and compaction of cushion material layer



Photograph #7 – Looking southerly at placement and compaction of cushion material layer for placement on 20-mil Polyethylene reinforced liner



Photograph #8 - Placement of 20-mil Polyethylene reinforced liner



Photograph #9 – Looking northerly at placement of top soil over 20-mil Polyethylene Liner



Photograph #10 – Looking northerly at surface of backfilled area and caliche material around heater treater

ATTACHMENT II

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY



May 26, 2010

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

Re: NM State S State TB (190041)

Enclosed are the results of analyses for sample number H19949, received by the laboratory on 05/21/10 at 3:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely, Celey D./Keene

Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (575) 394-2601

Receiving Date: 05/21/10 Reporting Date: 05/26/10 Project Owner: EXXON MOBIL (190041) Project Name: NM STATE S STATE TB Project Location: UL-F, SEC. 02, T22S, R37E Sampling Date: 05/21/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 4.5°C Sample Received By: JH Analyzed By: AB/ZL/HM

		GRO	DRO			ETHYL	TOTAL	
LAB NO.	SAMPLE ID	(C6-C10)	(>C10-C28)	BENZENE	TOLUENE	BENZENE	XYLENES	CI*
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	05/25/10	05/25/10	05/24/10	05/24/10	05/24/10	05/24/10	05/24/10
H19949-1 ST-1 (1')	<10.0	<10.0	<0.050	< 0.050	< 0.050	< 0.300	736
H19949-2 ST-1 (2')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	608
H19949-3 ST-1 (3')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	512
H19949-4 ST-1 (4')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.300	400
H19949-5 ST-1 (5')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.300	624
H19949-6 ST-1 (6')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	384
H19949-7 BG-1 (1')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	< 16
H19949-8 ST-2 (1')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	1,440
H19949-9 ST-2 (2')	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.300	1,380
Quality Control	478	471	0.018	0.018	0.018	0.054	500
True Value QC	500	500	0.020	0.020	0.020	0.060	500
% Recovery	95.6	94.2	90.0	90.0	90.0	90.0	100
Relative Percent Difference	2.4	0.5	6.8	6.6	7.5	5.3	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-; Std. Methods 4500-CI-B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. , Not accredited for GRO/DRO and Chloride.

Lab Director

5/26/10

H19949 TBCL EPI

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 analyser. 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (575) 394-2601

Receiving Date: 05/21/10 Reporting Date: 05/26/10 Project Owner: EXXON MOBIL (190041) Project Name: NM STATE S STATE TB Project Location: UL-F, SEC. 02, T22S, R37E Sampling Date: 05/21/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 4.5^oC Sample Received By: JH Analyzed By: AB/ZL/HM

		GRO	DRO			ETHYL	TOTAL	
LAB NO.	SAMPLE ID	(C6-C10)	(>C10-C28)	BENZENE	TOLUENE	BENZENE	XYLENES	CI*
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	05/25/10	05/25/10	05/25/10	05/25/10	05/25/10	05/25/10	05/24/10
H19949-10 ST-2 (3')	<10.0	<10.0	<0.050	<0.050	< 0.050	< 0.300	1,140
H19949-11 ST-2 (4')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	1,220
H19949-12 ST-2 (5')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.300	1,410
H19949-13 ST-2 (6')	<10.0	<10.0	<0.050	< 0.050	< 0.050	<0.300	1,440
H19949-14 ST-2 (7)	<10.0	<10.0	<0.050	<0.050	< 0.050	<0.300	1,420
H19949-15 ST-2 (8')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	864
H19949-16 ST-2 (9')	<10.0	<10.0	<0.050	< 0.050	< 0.050	< 0.300	1,800
H19949-17 ST-2 (10')	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300	1,570
H19949-18 ST-2 (11')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	736
Quality Control	478	471	0.017	0.019	0.017	0.051	500
True Value QC	500	500	0.020	0.020	0.020	0.060	500
% Recovery	95.6	94.2	85.0	95.0	85.0	85.0	100
Relative Percent Difference	2.4	0.5	<1.0	4.6	3.7	2.8	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.

Lab Director

25/26/10

H19949 TBCL EPI

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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories

Chain of Custody Form	or Custoay Form	LAB: Cardinal		ANALYSIS REQUEST												<<	тсгр отнея > ная															
nice	Jain	I		ALYS	-	-									(_*0	s) s:	TAJJUS Hq			H	Н	Н	Н	Н	Η							
C	3			AN											(1:) SEC (снгови	×	×	×	×	×	×	×	×	×	×					
																WS	108 Hd1	×	×	×	×	×	×	×	×	×	×		te			l
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ol Dla	al Flu	NM 88231	FAX: (575) 394-2601	Environ	David P	P.O. BOX 1558	Eunice	575-394	ExxonMobil	NM Stat	UL-F, St	190041	Kirt Tyree			SAMPLE I.D.															5	
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Umunu	Environmental Flus, Inc.	2100 Avenue O, Eunice, NM 88231	(575) 394-3481	Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax#	Client Company	Facility Name	Location	Project Reference	EPI Sampler Name			LAB I.D.		1-6176614	2	3	4	S	6	4	B	9	1D11	Sales and the	Sampler Relinquished:	Relinquished by:	Delivered by:	

Environmental Plus, Inc. 2100 Avenue O, Eunice, MM 88231 (575) 394-3431 Fax: (575) 394-2601 Company Name EPI Project Manager David P, Duncan Mailing Address Company Name EPI Project Manager David P, Duncan Mailing Address EPI Project Manager David P, Duncan Mailing Address EVOID 00 83231 EPI Project Manager David P, Duncan Mailing Address EPI Project Manager David P, Mane EPI Project Manager David P, Mane Mather	Page 2 of 2 Chain of Custody Form	LAF	Bill To ANALYSIS REQUEST				The second se				Attn: David P. Duncan	P.O. Box 1558	NM 8823	BERV. SAMPLING		-	E8 (80 DE8 (0 9W 54B	отнея отнея Дате Дате Дате Дате Сньоки Снеоки Сньоки Сна Сома Сноки Сна Сома Сна Сома Сна Сома Сноки Сна Сома Сна Сома Сна Сома Сна Сома Сна Сома Сна Сома Сна Сома Сома Сна Сома С	K 21-May-10 10:27 X X X	21-May-10	(21-May-10 10:30 X X X X	21-May-10	21-May-10	21-May-10	K 21-May-10 11:50 X X X X	(21-May-10 12:45 X X X)			E-mail results to: ddumcan@envolus.net			
Immental Plus, Inc. 0, Eunice, NM 88231 0, Eunice, NM 88231 1< FAX: (575) 394-2601 ne Environmental Plus, anager David P. Duncan ss P.O. BOX 1558 xx# 575-394-3481 / 575-3 ny Eunice New Mexico xx# D0041 Eunice note Virt Tyree 11 ST-2(4') SAMPLE I.D. 12 ST-2(5') SAMPLE I.D. 13 ST-2(6') ST-2(10') 14 ST-2 (10') ST-2(10') 15 ST-2 (10') ST-2 (10') 16 ST-2 (10') St-2(20') 17 ST-2 (10') St-2(20') 18 ST-2 (10') St-2(20') 19 ST-2 (10') St-2(20') 19 ST-2 (10') St-2(20')		Eunice, NM 88231					理				Attn: Da	P.O.			F		3S/	other: other: other			X		X		X	X			E-		MON	Checked By:
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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 4, 2010

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

Re: NM State S State TB (190041)

Enclosed are the results of analyses for sample number H20457, received by the laboratory on 07/30/10 at 2:45 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely. Celey D. Reene

Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (575) 394-2601

Receiving Date: 07/30/10 Reporting Date: 07/30/10 Project Owner: EXXONMOBIL (190041) Project Name: NM STATE S STATE TB Project Location: UL-F, SEC.02, T22S, R37E Analysis Date: 07/30/10 Sampling Date: 07/29/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 0°C Sample Received By: AB Analyzed By: HM

LAB NUMBER	SAMPLE ID	CI (ma/ka)
H20457-1	ST-3 (5')	48
H20457-2	ST-3 (7')	96
Quality Control		510
True Value QC		500
% Recovery	102	
Relative Percen	< 0.1	

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H20457 EPI

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 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.



CARDINAL

January 27, 2011

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: NM STATE S STATE TB

Enclosed are the results of analyses for samples received by the laboratory on 01/26/11 8:50.

Cardinal Laboratories is accredited through Texas NELAP for:

 Method SW-846 8021
 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

 Method SW-846 8260
 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

 Method TX 1005
 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celuy D.Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4

CARDINAL Laboratories

Analytical Results For:

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

Received:	01/26/2011	Sampling Date:	01/25/2011
Reported:	01/27/2011	Sampling Type:	Soil
Project Name:	NM STATE S STATE TB	Sampling Condition:	Cool & Intact
Project Number:	190041	Sample Received By:	Jodi Henson
Project Location:	UL-F, SEC. 02, T22S, R37E		

Sample ID: SB - 1 (5') (H100177-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: LR				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	01/27/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (10') (H100177-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (15') (H100177-03)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (20') (H100177-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (25') (H100177-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/26/2011	ND	432	108	400	0.00	

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Celuy D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 SM4500CI-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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*=Accredited Analyte

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

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			To							Attn: David P. Duncan	P.O. Box 1558	Eunice, NM 88231	SAMPLING		25-Jan-11	25-Jan-11	25-Jan-11	25-Jan-11	25-Jan-11							E-mail results to: ddumos shelloy-g.j.enuheghan@exo				
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	Plus, Inc.	58, Eunice, NM	534-2001 Environmental Plus. Inc.	David P. Duncan	P.O. BOX 1558	Eunice New Mexico 88231	575-394-3481 / 575-394-2601	ExxonMobil	NM State S State TB	UL-F, Sec. 02, T22S, R37E	190041	Kirby Bingham		SAMPLE I.D.												1/26/2011		112612011 記:50	U Sample Cool & Intac	
	nental I	", P.o. Box 15	Environm			Eur				n				SAM	SB-1 (5')	SB-1 (10')	SB-1 (15')	SB-1 (20')	SB-1 (25')									Y	adar	
	Environmental Plus, Inc.	2100 Avenue "O", P.o. Box 1558, Eunice, NM 88231	10	EPI Project Manager	Mailing Address	City. State. Zip	EPI Phone#/Fax#	Client Company	Facility Name	Location	Project Reference	EPI Sampler Name		LAB I.D.	1 1-LLIG01H	22	33	4	10	6	2	8	6	10		Sampler Relinquished:		Rounquisting by:	Delivered by:) Divelander	



February 25, 2013

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: NM "S" STATE TB #5

Enclosed are the results of analyses for samples received by the laboratory on 02/25/13 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

Analytical Results For:

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

Received:	02/25/2013	Sampling Date:	02/22/2013
Reported:	02/25/2013	Sampling Type:	Soil
Project Name:	NM "S" STATE TB #5	Sampling Condition:	Cool & Intact
Project Number:	190041	Sample Received By:	Jodi Henson
Project Location:	UL-F, SEC. 02, T22S, R37E		

Sample ID: SP - 1 (5.5') (H300491-01)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2013	ND	416	104	400	3.77	

Sample ID: SP - 2 (6.5') (H300491-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/25/2013	ND	416	104	400	3.77	

Sample ID: SP - 3 (6') (H300491-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/25/2013	ND	416	104	400	3.77	

Sample ID: SP - 4 (6.5') (H300491-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/25/2013	ND	416	104	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	02/25/2013	Sampling Date:	02/22/2013
Reported:	02/25/2013	Sampling Type:	Soil
Project Name:	NM "S" STATE TB #5	Sampling Condition:	Cool & Intact
Project Number:	190041	Sample Received By:	Jodi Henson
Project Location:	UL-F, SEC. 02, T22S, R37E		

Sample ID: SP - 5 (7.5') (H300491-05)

1	Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	32.0	16.0	02/25/2013	ND	416	104	400	3.77	

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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 SM4500CI-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. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

Tental Plus, In Eunice, NM 88231 Eunice, NM 88231 FAX: (575) 394-2601 ager David P. Dunca ager David P. Dunca P.O. BOX 1558 Eunice New Me # 575-394-3481 / / XTO NM "S" State T NM<"S" State T UL-F, Sec. 02, 1 ne David Robinso ne David Robinso sp-1 (5.5) SAMPLE I.D. sp-3 (6) SP-4 (6.5) sp-5 (7.5') SP-5 (7.5')	E		Ī	1					Rationers	-	-													T		T	T				
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March 04, 2013

David P. Duncan Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: NM "S" STATE TB #5

Enclosed are the results of analyses for samples received by the laboratory on 02/27/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/04/2013	Sampling Type:	Soil
Project Name:	NM "S" STATE TB #5	Sampling Condition:	Cool & Intact
Project Number:	190041	Sample Received By:	Jodi Henson
Project Location:	UL-F, SEC. 02, T22S, R37E		

Sample ID: BH - 1 (7') N (H300516-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/04/2013	ND	416	104	400	3.77	

Sample ID: BH - 2 (7') M (H300516-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	03/04/2013	ND	416	104	400	3.77	

Sample ID: BH - 3 (7') S (H300516-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/04/2013	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 recoved by claims, including within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, wethout 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 reproduced except in full with written approval of Cardinal Laborations.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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 SM4500CI-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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 otherwse. 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. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Chain of Custody Form		ST	- dende																															
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	1	Environmental Plus. Inc.		Duncan	K 1558	Eunice New Mexico 88231	575-394-3481 / 575-394-2601			NM "S" State 1B #5	UL-F, Sec. 02, T22S, R37E		aytan			Ū.			No. of the supervised statements											02/26/13	00:01	02/27/13	Sam	1 Mes
PCC00 M	Eunice, NW 88231 FAX: (575) 394-2601	Environ		David P. Duncan	P.O. BOX 1558	Eunice N	575-394-	XTO	ALA POINT	NW S	UL-F, Se	190041	Eddie Gaytan			SAMPLE I.D.			State of the state	The second se													81	50
LICHUS	-AX: (575	No. of Concession, Name		ger			and the second se					9	le						BH-1 (7') N	2 BH-2 (7') M	3 BH-3 (7') S										Y		C'ek 1	
Environmental Flus, Inc.	2700 Avenue O, Eunice, NM 88237 (575) 394-3481 FAX: (575) 394-26	Company Name	I Ducing Mana	EM Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax#	Client Company	A Participantia	racility name	Location	Project Reference	EPI Sampler Name			LAB I.D.		1200210	1	2	3	F	5	9	7	8	6	10		ampler Relipquished:	A. C. D. with	Kommunication by	Delivered by:	

ATTACHMENT III

SAMPLE TRENCH LOGS (FM & OL Forms)

	ER: EPI #190041			SOIL DESCRIPTION	Clay/Sand	Clay/Sand	Clay/Sand	Clay/Sand	Caliche	Caliche	Sand	Clay/Sand	Caliche	Caliche	Caliche		WEATHER	Temp. M sc									
0	PROJECT NUMBER: EPI #190041	DATE: 5-21-10		mg/Kg	880	800	720	560	720	480	240	1,280	1,600	1,280	1,280	1,600	1,600	1,360	880	1,440	1,040	560			Time		
ION LOC			SIS		20 =	20 =	20 =	c 20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =	20 =		Span Gas		
ERVAT	S" State		CHLORIDE ANALYSIS	Titration Tube Reading	44	40 ×	36 ,	28	36	24 ×	12	64 ×	80 ×	64 3	64 ×	80 ,	80 %	68	44 ,	72 ×	52 »	28 ×	~				
ENT/OBS	/ Mexico "		CHLORII		40 ml H2O		٨ir																				
FIELD MEASUREMENT/OBSERVATION LOG	PROJECT NAME: New Mexico "S" State TB #5	96			2 gms of soil		Fresh Air																				
FIELD M	PROJECT #5	TECHNICIAN: Kurt Tyree		PID READING (PPM)	117	310	320	19.0	15.7	17.4	0.0	18.6	20.5	22.8	18.4	8.6	3.6	3.1	1.7	0.6	0.7	1.8		IBRATION	Time		
	COMPANY: ExxonMobil Corp.	FIELD TEC		PID ANALYSIS TIME	9:05	9:15	9:30	10:00	10:05	10:10	10:20	10:55	11:00	11:05	11:10	11:15	11:20	11:40	11:42	11:45	12:10	13:00		PID CALIBR	Span Gas		
us, Inc. 58 • 0 231		can		COLLECTION TIME	8:50	8:55	9:00	9:40	9:45	9:50	10:15	10:22	10:24	10:26	10:27	10:28	10:30	11:25	11:27	11:30	11:50	12:45			Fresh Air		
Environmental Plus, Inc. P.O. Box 1558 2100 Avenue O Funice, NM 88231	(575) 394-2601 (fax)	ER: David Dun		DEPTH (FT) C(1	2	3	4	5	6	1	1	2	3	4	5	9	7	8	6	10	11					
		PROJECT MANAGER: David Duncan		SAMPLE ID	ST-1	ST-1	ST-1	ST-1	ST-1	ST-1	BG-1	ST-2			Time												

COMPANY: ExxonMobil Corp.
FIELD TECHNICIAN: Danny Deaton
-
PID ANALYSIS TIME PID READING (PPM)
11:25 1.3
10:35 0.0
10:05
12:20 0.0
10:30 0.0
~
PID CALIBRATION
Span Gas Time

ATTACHMENT IV

WELL RECORD AND LOG OFFICE OF THE STATE ENGINEER



LOCATION

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	POD NUM				DATE OV O			OSE FILE NUT	MBER(S)			
GENERAL AND WELL LOCATION	WELL OW			STATE TANK	BATTERYS	8-1		PHONE (OPTI	ONAL)			
TOC	EXXON WELL OW			ADDRESS				CITY		STATE		ZIP
WELL	6810 N			AUDELSS				ANDREW	IS	ТХ	79	714
IN	WEL	L I		I	DEGREES		CONDS					
RAL	LOCATI (FROM C		-	TTUDE	32	25	13.00 N		REQUIRED ONE TEN QUIRED WGS 84	TH OF A SEC	OND	
GENE	DESCRIPT	TION REL	-	GITUDE G WELL LOCATION 1		SS AND COMMON LANI	0.00					
1.6	WEST	OF 18	& C	RINKARD RD)							
-	(2.3 AC	RE)		(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP	ICIBOR [RANGE	D 8.007
IVI		/4		1/4	1/4	1/4				SMITH .		want.
L OPTIONAL	SUBDIVIS	ION NAM	IB.				LOT NUM	IBER	BLOCK NUMBER		UNIT/TRA	ст
2.08	HYDROGR	APHIC S	URVE	Y					MAP NUMBER		TRACT NU	MBER
-	LICENSE	UMBER	-	NAME OF LICENSE	D DRILLER				NAME OF WELL DR	LILLING COM	FANY	and the second s
-3		1478		MARTIN STR			_		STRAUB CO			
	DRILLING	STARTE	D	DRILLING ENDED 1-25-11	DEPTH OF COM	0	BOREHO	LE DEPTH (FT) 25	DEPTH WATER FIR	N/A	TERED (FT)	
3. DRILLING INFORMATION	COMPLET	21/2	ts	ARTESIAN	DRY HOLE	SHALLOW (UN	CONFINED		STATIC WATER LE		LETED WEI	L (FT)
ORM	dimentel.			✓ AIR	MUD	ADDITIVES - S	and on the local data			1011		
ANIC	DRILLING			ROTARY	HAMMER	CABLE TOOL	-	R - SPECIFY				
FINC		H (FT)	-	BORE HOLE	1	ASING	-	ECTION	INSIDE DIA.	CASING	WALL	SLOT
DRIL	FROM	то		DIA. (IN)		ATERIAL	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(CASING)	CASING (IN)	THICKN		SIZE (IN)
3.1	0	25		6		N/A		N/A	N/A	N/	A	N/A
			_									
_	DEPT	TH (FT)	-	THICKNESS	FC	ORMATION DESCRI	IPTION OF P	RINCIPAL W	ATER-BEARING S	TRATA		YIELD
STRATA	FROM	TO		(FT)		(INCLUDE WATE	R-BEARING	CAVITIES O	R FRACTURE ZON	NES)		(GPM)
			_									
ARIN												
R BE		-	_								1.12	
4. WATER BEARING	METHOD	ISED TO	ESTIN	MATE YIELD OF WAT	ER-BEARING STRA	TA			TOTAL ESTIMATER	O WELL YIELD	O (GPM)	
	FOR OS	INTER	NA.	1156					WELL RECO	PD&LOC	Varsion 6	າວກອງ
	FUENU	and the state of the	11/11	1000		POD NUM	DED		TEN NUMBE	the second s		1001

PAGE 1 OF 2

AW	TYPE OF	F PUMP:	U SUBMER		I JET	NO PUMP – WELL NOT EQUIPPED OTHER – SPECIFY:			
SEAL AND PUMP			DEPTH	TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH	
VT	ANN		0	2	5	1 BAG OF CEMENT		TOPL	OAD
5. SE	GRAVE	L PACK	2	25	5	8 BAGS OF 3/8 PLUG		TOPL	.OAD
-	DEPT	H (FT)	THICK	NESS		COLOR AND TYPE OF MATERIAL ENCOUN	TERED	WA	
	FROM	то	(FT	ŋ	(INCLU	DE WATER-BEARING CAVITIES OR FRACT	URE ZONES)	BEAR	UNG?
	0	8	8			TAN RED SILTY CLAY & SANI	0	VES YES	NO NO
	8	9	1			TAN SILTY CLAY		VES YES	NO NO
	9	13	4			SOFT CALICHE		VES	NO NO
	13	17	4			TAN RED SILTY SAND & CLAY	Y	T YES	NO NO
4	17	25	8		1	TAN SILTY SAND & SOFT SANDS	TONE	TYES	NO NO
6, GEOLOGIC LOG OF WELL	TD	25						TYES	NO NO
OF								VES YES	NO NO
00								TYES	D NO
ICI								TYES	NO NO
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								T YES	D NO
			ATTACH	ADDITION	AL PAGES AS NEI	EDED TO FULLY DESCRIBE THE GEOLOGI	CLOG OF THE WELL		
-		-	METHOD:	BAILE		AIR LIFT OTHER - SPECIFY:			
(PO	WELL	TEST					BICI INDIO CTARTI	THE END T	ME
VELIN						ATA COLLECTED DURING WELL TESTING, ND DRAWDOWN OVER THE TESTING PER		IME, END II	ME,
7. TEST & ADDITIONAL INFO	CONTRACTOR -		MENTS OR EXPL		ig was plugo	GED AND ABANDONED UPON CO	MPLETION OF S	AMPLING	
URE	CORREC	T RECOR	D OF THE AB	OVE DESC	RIBED HOLE AND	T OF HIS OR HER KNOWLEDGE AND BELL THAT HE OR SHE WILL FILE THIS WELL R N OF WELL DRILLING: 2 - 10 - 11			
8. SIGNATURE	11	an	1 20 0	~		0-10-11			

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER *
LOCATION		PAGE 2 OF 2

ATTACHMENT V COPY OF INITIAL NMOCD FORM C-141 FINAL NMOCD FORM C-141

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised August 8, 2011

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

histrict IV 220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750	5			h St. France, NM 875								
			Rel	ease Notific	CONTRACTOR OF		a second s	ction						
			Ken		auo	OPERA'			al Report 🛛 Final Report					
Name of Co	mnany X	TO Energy			1	Contact Gu								
), Eunice, No	w Mexic	0 88231			No. (575) 394-20	089 (office)						
		fexico "S" S					e Active Tank I							
Surface Ow	mer State	of New Mex	ico	Mineral C)wner S	State of New	Mexico	API No						
				LOCA	TIO	N OF RE	LEASE							
Unit Letter F	Section 02	Township 17S	Range 35E	Feet from the		/South Line	Feet from the	East/West Line	County Lea					
]	Latitude_	N32°_25	' 13.53"		_ Longitud	e 103° 08' 08.0	7"						
				NAT	URE	OF REL	EASE							
Type of Rele	ase Combin	nation oil and	produced			Volume of	Release 78.4 oil/		ecovered 75 bbls oil/8.3-bbls					
Course of D	Janga Daula	n water lee	Lastas 7	antor	1.00)1A	produced v	vater lour of Occurrenc	produced	oil Hour of Discovery 3/20/10 @					
source of Ke	acase Broke	en water leg of	i ricater I	reater		20-10 @ 8	nour of Discovery 3/20/10 @							
Was Immedia	ate Notice (Ves [No 🗌 Not Re	auired	If YES, To Whom? E. L. Gonzales								
By Whom? S	belby Penn	ington (Exxo			quirea	Date and H	lour 3-20-10 @ 14	1.30						
Was a Water			invioun co	<i>np.</i> /			lume Impacting t							
			Yes 🛛] No		N/A								
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*N/A										
trucks picked transported si of Environmo presented to to Describe Are was delineate release area v activities; fro transported to material was yards (includ release area; I hereby certi regulations al public health should their co or the environ	I up 75-bbls tiffened mai ental Plus, I the NMOCI a Affected d via soil b was hydro-e om 2-18-13 o Sundance installed in ing cushion remaining r ify that the ill operators or the envi operations h nment. In a	s of petroleum terial to Sunda inc., (EPI) to (D on 4-29-11 and Cleanup A oring and deta excavated to de to 2-25-13 EP Services for de the excavation material); the emedial activit information ging are required to ronment. The may failed to a	products ance Servi GPS, photo Action Taker ermined vo etermine m I excavate lisposal; o n bottom; e surface v ity is disci ven above o report ar acceptane adequately OCD accep	and 8.3-bbls of pro- cess for disposal; of orgraph, delineate of exen.* Release area ertical limit of imp number and sizes of ed ±1,626 cubic yas n 2-28-13 a 20-mi remainder of exca vas contoured to p ng and deep drill is is true and comp nd/or file certain ro- ce of a C-141 repo- investigate and ro-	oduced combine release a was de pacted n of buried ards of it il reinfon avation vrevent v seeding lete to the elease n ort by the	water; roust-a d fluids cover area and prese lineated via S naterial was l d pipelines; or mpacted mate rced polyethy was backfilled water pooling, of disturbed a he best of my otifications are e NMOCD m e contaminati	-bout crew blende red a release area of ant a Site Remedia ample Trenches of 5-feet below grou 12-18-13 EPI mol rial from the exca lene liner sandwid with clean top so wind/water erosi area with a seed b knowledge and un and perform correc arked as "Final Ro on that pose a thro	ed clean soil with o of $\pm 5,300$ square fe <i>tion Proposal</i> to N on 5-21-10 and 6-29 and surface in center bilized to release an avation (4,230 squa ched between two (oil with an accumul on and promote wa lend approved by the inderstand that purs tive actions for rele eport" does not reli eat to ground water	ean up activities; vacuum ily impacted material and et; XTO retained the services MOCD; said <i>Report</i> was -10; on 1-25-11 release area er of release area; on 3-7-11 rea and started remediation re feet X 7-8 foot depth) and 2) feet layers of cushion ative volume of 1,596 cubic ter drainage away from the <u>he NMSLO. □</u> uant to NMOCD rules and ases which may endanger eve the operator of liability , surface water, human health impliance with any other					
	X	\bigcirc					OIL CONS	SERVATION	DIVISION					
Printed Name	Cur Par	1000	inc	2	_	Approved by	Environmental Sp	pecialist:						
Title: Produc		an arce@xtoener	ev.com			Approval Dat Conditions of		Expiration I						
Date: 4-23-13		a vensioner		hone: (575) 394-2		Contractions of	septoral.		Attached					
CHILL, 1974.3*				1010, 13/31374+2	N07									

* Attach Additional Sheets If Necessary

LETTER OF TRANSMITTAL



Date:	25 April 2013	
To:	Geoffrey Leking	
Company Name:	New Mexico Oil Conservation Division	
Address:	1625 North French Drive	110000 000
City / State / Zip:	Hobbs, New Mexico 88240	HOBBS OCD
From:	David P. Duncan	
CC:	Ben Sturgill, NMSLO – Hobbs NM	APR 2 9 2013
	Steven Ikeda, NMSLO – Santa Fe, NM	
	Guy Pearce, XTO – Eunice, NM	RECEIVED
Project # :	190041	RECEIVED
Project Name:	New Mexico "S" State Tank Battery #5	
Subject:	Remediation Closure Report	

# of originals	# of copies	Description
	1	New Mexico "S" State Tank Battery #5 - Remediation Closure Report

Remarks

Dear Mr. Leking

Enclosed for information and record is Remediation Closure Report for the above referenced Site.

Should you have questions, concerns or need additional technical information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at <u>dduncanepi@gmail.com</u>.

Sincerely,

David P. Duncan Civil Engineer EPI Project Manager

> P. O. Box 1558 Eunice, NM 88240 (505) 394-3481 Fax: (505) 394-2601