# ENVIRONMENTAL PLUS, INC.

2100 AVE 'O' P.O. BOX 1558 EUNICE, NM 88231 ddominguezepi@gmail.com

Office: (575)394-3481 Fax: (575)394-2601



#### **CLOSURE REPORT**

BOPCO, L.P.
PLU #261 Tank Battery
Eddy County, New Mexico
Unit Letter "J", Section 21, Township 24 South, Range 30 East
Latitude 32.201808 North, Longitude 103.883505 West
NMOCD Reference #2RP-1012
NMOCD Reference #2RP-2333
NMOCD Reference #2RP-2957

Prepared For:

BOPCO, L.P. 522 W. Mermod, Suite 704 Carlsbad, New Mexico 88220

Prepared By:

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

**June 2016** 



29 June 2016

Mr. Mike Bratcher Environmental Specialist NMOCD 811 S. First St. Artesia, New Mexico 88210

RE: Final Closure Report
Bopco – PLU #261 Tank Battery
UL-J, Section 21, Township 24 South, Range 30 East
Eddy County, New Mexico

NMOCD Reference's #2RP-1012, #2RP-2333, #2RP-2957

Mr. Bratcher:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

#### **Background Information:**

Release one, designated 2RP-1012, occurred when a new well was brought onto the production at the PLU-261 battery; the new well went on gas surge and pushed all of the oil out of the production vessels into a temporary gas purge tank which overflowed. The well was shut in and the gas problem was corrected. The area around the lined tank containment was enclosed with an earthen berm which kept all of the spilled fluid on the well pad and tank battery pad. An area measuring approximately 18,000 sq. ft. was affected by the spill. The free oil was recovered with a vacuum truck and the heavily saturated soil around the process vessels and lines was hand dug and stockpiled on-site.

Release two, designated 2RP-2333, occurred when a valve was left closed on the header and the well was put back on line. The excessive pressure blew out one of the Victaulic gaskets on the well header. The wells were shut in and the gasket was replaced. The release impacted approximately 2,800 sq. ft. of tank battery pad area around the process equipment This spill is in the same place as a previous spill that had been partially excavated and sampled for compliance. Reference 2RP-1012. The saturated soil will be excavated by hand and a hydro-vac as far as practicable around the process lines and vessels.

Release three, designated 2RP-2957, occurred when a four inch check valve on the header failed and released 71 barrels of produced water and 30 barrels of oil to the ground surface, there are also several areas where the fluid did get off the well pad. Area one was north of the battery and pipeline valve settings, area two was an overspray area to the northwest of the battery. The spill impacted approximately 18,900 sq. ft. of pad area, caliche lease road and pasture area. The release also misted approximately 11,500 sq. ft. of pasture. BOPCO plans to spray the overspray area with a Micro-Blaze mix and have a backhoe conduct surface scrape on the areas that are accessible.



#### **Remediation Activities:**

Releases one and two, 2RP-1012 and 2RP-2333, were remediated by Basin Environmental. The release areas were sampled on August 20-21, and September 5, 2014 (reference *Figure 3* and *Attachment II*). Based on those samples, laboratory analytical data, and NMOCD approval, the contaminated soil was excavated one (1) foot bgs in the areas around SP #1 – SP #16 and hauled to a state approved facility for disposal (reference *Attachment III*).

EPI personnel mobilized on the site on April 13, 2015 to collect soil samples to determine the vertical extent of contamination on release three, 2RP-2957. A total of fourteen (14) soil samples were collected from six (6) sample locations; SP1 – SP6. All samples were field tested for organic vapors and chloride concentrations. Soil samples were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples were tested for organic vapors utilizing a Mini-Rae<sup>TM</sup> Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Field testing results indicate elevated Chloride concentrations in SP2 at three (3) inches bgs, SP3 to one (1) foot bgs, and SP4 to one (1) foot bgs. Field testing results indicate low levels of organic vapors in all samples. On June 7, 2016 two (2) additional soil samples were collected by EPI personnel from Basin's sample location SP #8. Laboratory analytical data indicates Benzene, BTEX, TPH, and Chloride levels to be below NMOCD RRALs of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively, for both samples (reference *Figure 4* and *Table 2*).

Based on laboratory analytical data and, and NMOCD approval the release area was excavated to a depth of approximately one (1) foot bgs in the area of SP #8 and a 20 mil poly-ethylene liner installed. The surface area around SP1 – SP6 was scraped up. All contaminated soil was hauled to a state approved facility for disposal. The overspray area to the north and northwest of the battery was thoroughly sprayed with a six (6) percent solution of Micro-Blaze. Approximately 68 tons of contaminated soil was excavated and hauled to a state approved facility for disposal.

#### **Closure Activities:**

With NMOCD approval the excavation was backfilled with approximately 68 tons of clean soil. All soil was free of rocks, clumps or deleterious material. The entire disturbed area was then contoured to blend with existing pad 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 <a href="mailto:ddominguezepi@gmail.com">ddominguezepi@gmail.com</a> or Mr. Brad Blevins at (432) 214-3704 or via e-mail at <a href="mailto:bblevins@basspet.com">bblevins@basspet.com</a>. All official communication should be addressed to:

Mr. Brad Blevins Bopco, L.P. 522 W. Mermond, Suite 704 Carlsbad, NM 88220



#### Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant

cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.

File

Encl.: Figure 1 – Area Map

Figure 2 – Site Location Map

Figure 3 – Site/Sample Map – Basin Figure 4 – Site/Sample Map – EPI

Table 1 – Well Data

Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results

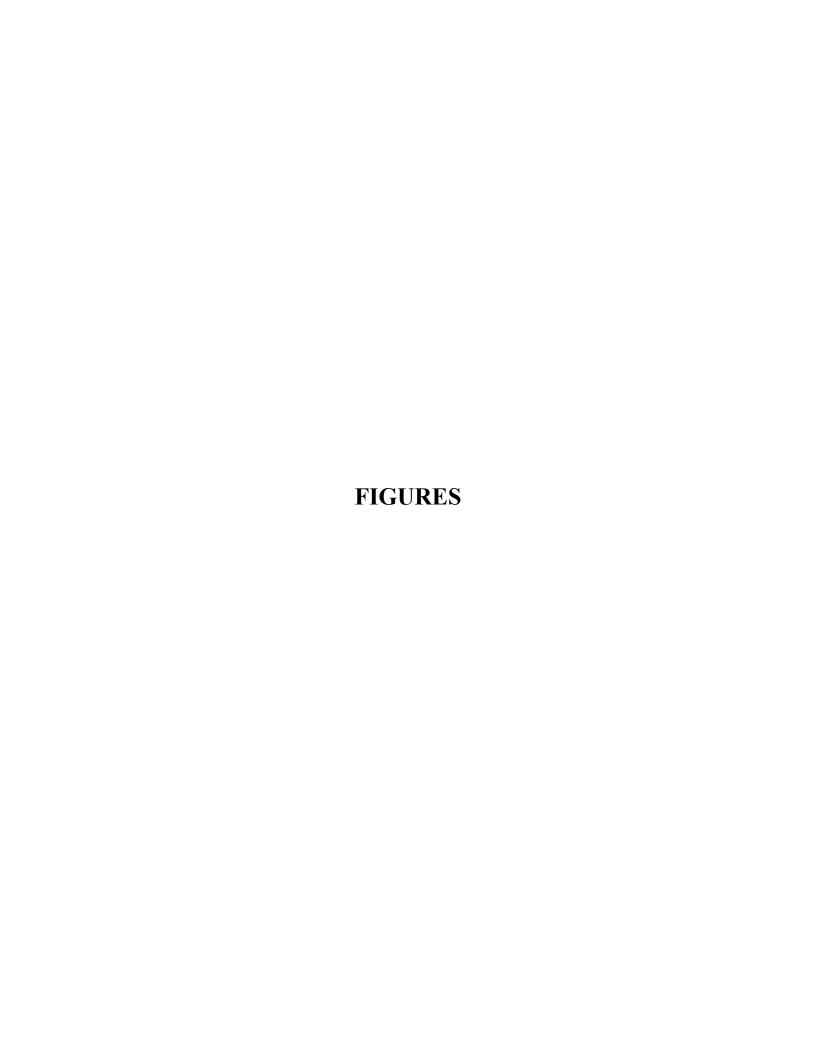
Attachment I – Photographs

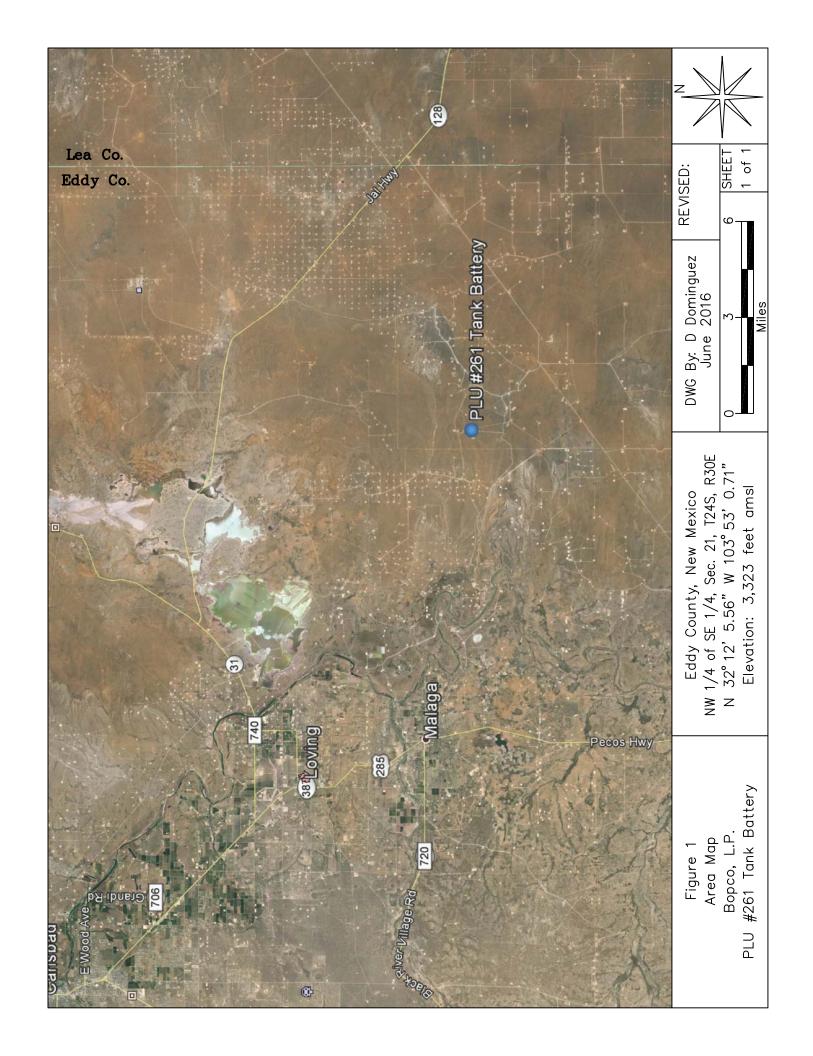
Attachment II – Basin Environmental Sampling Tables

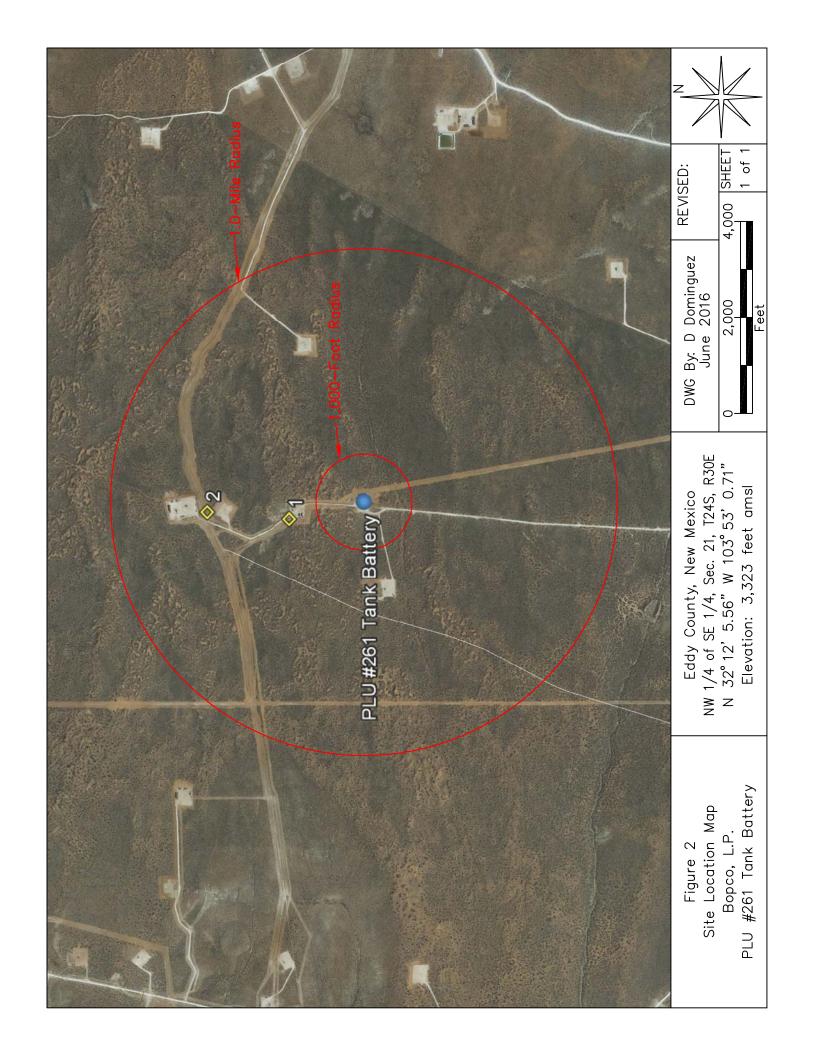
Attachment III – Correspondence

Attachment IV – Laboratory Analytical Data

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







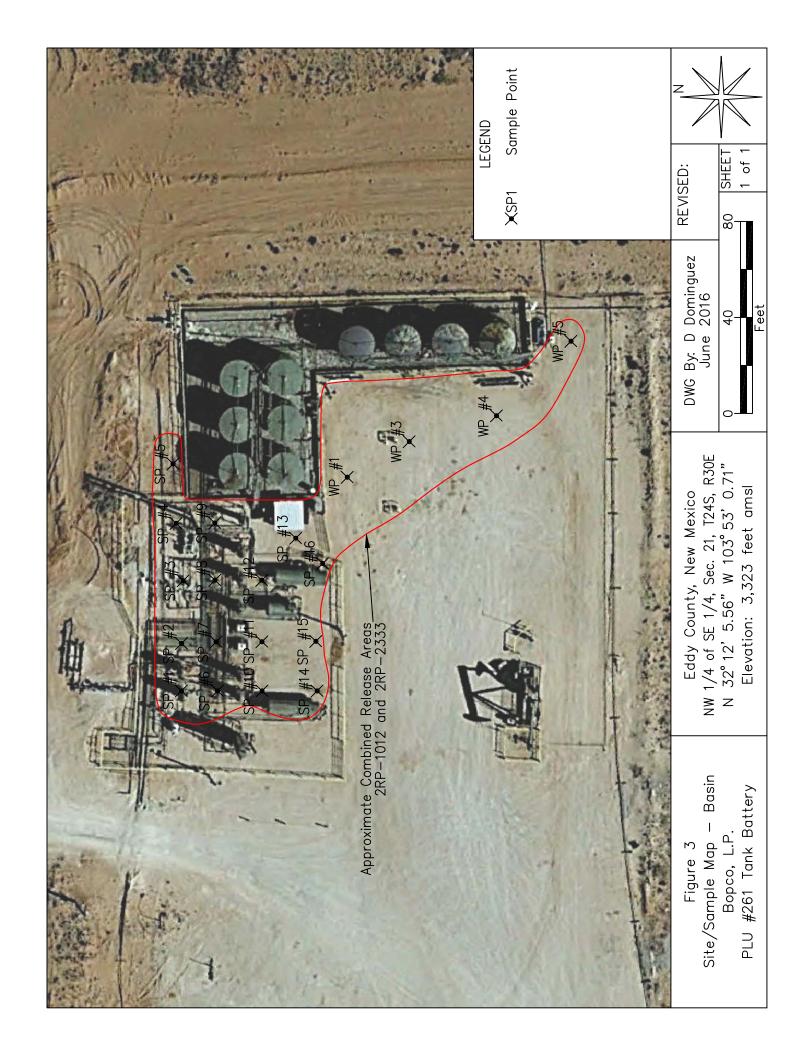






TABLE 1

# Well Data

# Bopco, L.P. - PLU #261 Tank Battery

															Depth
D of #	Well Number	Teo	Jee Dimonda	Ournon	7 790	9	2	Taye	Dug	Locting	264 216 24 Soc Twen Dug Rocting Northing Distance	Distance B	Date	Surface	ţ
# ISVI	TORTING I		Diversion		5	2	<u> </u>	[	e III	Fasung	Smill 101	Distance	Measured	Measured Elevation <sup>C</sup> Water	Water
															(ft bgs)
1	C 02107	DOL	0	M & M CATTLE CO.		3 2	2	24S	30E	605174	3 2 21 24S 30E 605174 3563706	387	-	3,360	:
2	C 03893	CPS	0	DARRELL CRASS DRILLING	1	1 2	2	24S	30E	605162	3564162	842	2   21   24S   30E   605162   3564162   842   26-Aug-15   3,356	3,356	1

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr\_RegisServlet1)  $^{A}$  = In acre feet per annum  $^{B}$  = In meters  $^{C}$  = Elevation interpolated from USGS topographical map based on referenced location.

 $^{A}$  = In acre feet per annum

DOL = 72-12-1 Domestic and Livestock watering

CPS = Cathodic Protection Well quarters are 1=NW, 2=NE, 3=SW, 4=SE, quarters are smallest to biggest

Page 1 of 1

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Bopco L.P.
PLU #261 Tank Battery

Lab Sample ID	Depth (feet)		Soil Status Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene Ethylbenze (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
CDI	"ε	Excavated	13-Apr-15	0.0	08					-					-
3F1	1	In Situ	13-Apr-15	0.0	08	-	-			-				-	-
cuo	3"	Excavated	13-Apr-15	12.4	1,120	1	l	1	1	:	:	I		ŀ	ŀ
212	1	In Situ	13-Apr-15	1.5	80	1	1	1	1	:	-	1		1	1
	3"	Excavated	13-Apr-15	10.8	>4,000		-	-	-	-		-		-	-
SP3	1	In Situ	13-Apr-15	0.2	1,040	1	-	I		1				ŀ	ł
	2	In Situ	13-Apr-15	0.0	160	-	1	1	:	:	-	:		1	-
	3"	Excavated	13-Apr-15	11.2	720										
SP4	1	In Situ	13-Apr-15	6.5	009					-				-	-
	2	In Situ	13-Apr-15	0.5	80	:	1	1	:	:	:	:		1	1
50.5	3"	Excavated	13-Apr-15	8.4	160	1	ŀ	I	1	;	1	1		ŀ	ŀ
SFS	1	In Situ	13-Apr-15	1.1	160	1	1	1	1	:	:	1		ŀ	1
9d5	3"	Excavated	13-Apr-15	5.4	400		-	-	-	-		1		-	-
010	1	In Situ	13-Apr-15	0.2	80	1	1	1	1	:	-	1		ŀ	1
805	1	Excavated	07-Jun-16	5.2	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,030	428	1,458	544
	2	In Situ	07-Jun-16	5.8	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	937	371	1,308	432
NMOCD ]	Recomm	NMOCD Recommended Remedial Action Levels	dial Action	100		10				50				5,000	1,000

-- = Not Analyzed **Bold** values are in excess of NMOCD Recommended Remedial Action Levels
Shaded values indicates soil has been excavated



# ATTACHMENT I Photographs



Photograph #1 – Overspray area



Photograph #2 – Overspray area



Photograph #3 – Looking across release area



Photograph #4 – Looking across release area



Photograph #5 – Excavated area



Photograph #6 – Excavated area



Photograph #7 – Excavated area



Photograph #8 – Excavated area



Photograph #9 – Liner installed



Photograph #10 – Backfilled area



Photograph #11 – Backfilled area



Photograph #12 – Backfilled area



Photograph #13 – Backfilled area



# ATTACHMENT II Basin Environmental Sampling Tables

### TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

#### BOPCO, LP POKER LAKE UNIT #261 TANK BATTERY EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-2128

				N	METHOD: E		6-8021B, 50	30	MET	HOD: 80		TOTAL	4500 CI-B
	SAMPLE	SAMPLE	SOIL	BENZEN	TOLUEN	EIHYL-	TOTAL	TOTAL	GRO	DHO	OHO	TPH	CHLORID
SAMPLE LOCATION	DEPTH	DATE	STATUS	E	Е	BENZEN	XYLENES	BTEX	C6-C12	C <sub>12</sub> -C <sub>28</sub>	C <sub>28</sub> -C <sub>35</sub>	C <sub>6</sub> -C <sub>35</sub>	E
	(BGS)			(mg/Kg)	(mg/Kg)	E	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg	(mg/Kg	(mg/Kg)	(mg/Kg)
WP #1 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	(ma/Ka) <0.050	<0.150	<0.300	<10.0	271	174	445	96.0
WP #1 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,090
WP #3 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	51.5	5890	1440	7,382	1,140
WP #3 @ 3dii	1'	8/21/2014	In-Situ	Z0.000	-	70.000	-	-	<10.0	<10.0	<10.0	<10.0	96.0
WP #4 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	928
WP #4 @ 1'	1'	8/21/2014	In-Situ	-	-	- 40.000	-	-	-	-	-	-	48.0
WP #5 @ Surf	Surface	8/21/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	771	282	1,053	2,000
WP #5 @ 1'	1'	8/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,140
141 #2 @ 1		O/E I/EO 14	III Old										
SP #1 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	103	15,700	4,510	20,313	1,470
SP #1 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	800
SP #2 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	102	5,420	2130	7,652	3,880
SP #2 @ 2'	2'	8/20/2014	In-Situ	-	-	-	-	-	†	-	-	- ,,	528
SP #3 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	73.9	4,000	1200	5,274	9,060
SP #3 @ 5011	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.5	<10.0	16.5	1,550
SP #3 @ 6 SP #3 @ 10'	10'	8/20/2014	In-Situ	<0.000	<0.000	Z0.000	X0.100	20.000	- 10.0	- 10.0	- 10.0	- 10.0	720
				<0.100	<0.100	<0.100	0.474	<0.600	142	7,740	2,350	10,232	6,160
SP #4 @ Surf	Surface 6'	8/20/2014	In-Situ In-Situ	<0.100	<0.100	<0.100	<0.150	<0.300	<10.0	<10.0	15.3	15.3	848
SP #4 @ 6'							- <0.150	<0.300	<10.0	- <10.0	15.5	- 15.5	688
SP #4 @ 10'	10'	8/20/2014	In-Situ					<0.300	50.3	1,460	542	2,052	7,280
SP #5 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150				342	2,032	496
SP #5 @ 4'	4'	8/20/2014	In-Situ	-		- 0.050	- 0.450		-	7.050		10 100	1,600
SP #6 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	103	7,950	2,440	10,493	
SP #6 @ 4'	4'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	13.5	13.5	848
SP #7 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	51.8	3,590	1,480	5,122	3,440
SP #7 @ 6'	6'	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	20.6	20.6	1,790
SP #7 @ 10'	10'	8/20/2014	In-Situ	-	-	-	-	-	-	-		-	784
SP #8 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	52.1	4,550	1,580	6,182	11,200
SP #8 @ 6'	6'	8/20/2014	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	17.4	17.4	1,420
SP #8 @ 10'	10'	8/20/2014	In-Situ	-		-	-	-	<u> </u>	-	-	-	1,390
SP #9 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	54.9	6,840	2020	8,915	3,680
SP #9 @ 4'	4'	8/20/2014	In-Situ	-	-				-	-	-	-	272
SP #10 @ Surf	Surface	8/20/2014	In-Situ	<0.050	0.207	0.193	1.56	1.96	177	7,280	1,600	9,057	6,400
SP #10 @ 4'	4'	8/20/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	23.6	26.2	49.8	48.0
SP #11 @ Surf	Surface	8/20/2014	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
SP #11 @ 18"	18"	8/20/2014	In-Situ	-	-	( <b>-</b> )	1-3	-	-	-	-	-	3,320
SP #12 @ Surf	Surface	8/20/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	51.4	4,730	1,470	6,251	704
SP #12 @ 2'	2'	8/20/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	87.5	54.9	142.4	688
SP #13 @ Surf	Surface	8/20/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	674	277	951	4,160
SP #13 @ 2'	2'	8/20/2014	In-Situ	-	-	-		-	-	-	-	-	640
SP #14 @ Surf	Surface	8/20/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	80.0
SP #14 @ 1'	1'	8/20/2014	In-Situ		-	-	-	-	T -	-	-	-	256
SP #15 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	72.1	9,670	3,050	12,792	4,280
SP #15 @ 1'	1'	8/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,420
SP #15 @ 4'	4'	8/20/2014	In-Situ	<b>—</b>	<u> </u>	<del>                                     </del>	-	-	-	-	<del>  -</del>	-	<16.0
SP #16 @ Surf	Surface	8/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	20.9	1,250	446	1,716	192
SP #16 @ 2'	2'	8/20/2014	In-Situ				-	- 10.000	-	-	1 -		144
510@ 2		3/23/23/14	3.00										
SP #1a @ 18"	1.5'	9/5/2014	In-Situ	-	-	i .	-	T -	<10.0	243	76.7	319.7	-
SP #2a @ 18"	1.5'	9/5/2014	In-Situ	<del>                                     </del>		-	-	<del>-</del>	<50.0	3,340	1,210	4,450	-
SP #9a @ 18"	1.5'	9/5/2014	In-Situ	<del> </del>	<del>-</del>	<del>-</del>	-	<del>                                     </del>	<10.0	214	73.2	287.2	-
			In-Situ	<del>  -</del> -	<del>  -</del>	<del></del>	<del> </del>	<del>                                     </del>	<50.0	1,410	335	1,745	<del> </del>
SP #15a @ 18"	1.5'	9/5/2014		<del> </del>		<del> </del>	<del>  -</del>	<del>  -</del> -	<10.0	21.0	<10.0	21.0	<del> </del>
SP #16a @ 18"	1.5'	9/5/2014	In-Situ	-		-	Total Control		<10.0	£1.U	10.0	21.0	100000000000000000000000000000000000000
NIMOCD College				10				50				5,000	1,000
NMOCD Criteria				1 10				1 30				3,000	1,000

- = Not analyzed.

#### PLU #261 Battery Field Test Results 8/19/14-8/20/14

	Fic	eld Results	(Facility)	
Location	Depth	CL-	PID	HydroCarbon
SP #1	Surface	1108	12.5	Sheen
SP #1	2'	864	5.5	None
SP #2	Surface	3112	6.2	Sheen
SP #2	2'	476	6.1	None
SP #3	Surface	9644	9.3	Slight
SP #3	2'	2204	6.3	None
SP #3	4'	1506	-	None
SP #4	Surface	6380	18.7	Sheen
SP #4	2'	2204	8.9	None
SP #4	41	1352	-	None
SP #5	Surface	6380	2.5	None
SP #5	1'	6380	4.1	None
SP #5	4'	572	-	None
SP #6	Surface	5892	23.9	Sheen
SP #6	1'	3972	17.3	Sheen
SP #6	4'	864	-	None
SP #7	Surface	2864	32.6	Sheen
SP #7	1'	5024	63.8	Sheen
SP #7	4'	1796	-	None
SP #8	Surface	8852	10.8	Sheen
SP #8	2'	1796	10.4	None
SP #8	4'	1356	-	None
SP #9	Surface	3380	102	Sheen
SP #9	2'	1168	43.6	None
SP #9	4'	<120	0.03	None
SP #10	Surface	1256	873	Sheen
SP #10	1'	2864	318	Sheen
SP #10	4۱	<120	49.1	None
SP #11	Surface	-	10.3	None
SP #11	18"	680	8.3	None
SP #12	Surface	3032	23.5	Sheen
SP #12	2'	432	7	None
SP #13	Surface	4612	5.3	None
SP #13	2'	624		None
SP #14	Surface	<120	3.8	None
SP #14	1'	244	2.1	None
SP #15	Surface	3972	2.4	Sheen
SP #15	1'	1352	3.6	None
SP #15	4'	<120		None
SP #16	Surface	180	220	Sheen
SP #16	2'	152	16	None

	Field Ro	esults (Fla	re)
Location	Depth	CL-	HydroCarbon
East	Surface	476	Yes
East	1'	124	None
West	Surface	180	Yes
West	1'	<120	None

	Field Res	ults (Well	Pad)
Location	Depth	CL-	HydroCarbon
WP #1	Surface	<120	None
WP #1	1'	<120	None
WP #3	Surface	1008	None
WP #3	1'	<120	None
WP #4	Surface	800	None
WP #4	1'	<120	None
WP #5	Surface	2228	None
WP #5	1'	932	None

## ATTACHMENT III Correspondence

#### **Blevins, Bradley**

From:

Blevins, Bradley

Sent:

Thursday, March 10, 2016 10:30 AM

To:

mike.bratcher@state.nm.us; heather.patterson@state.nm.us

Cc:

Blevins, Bradley

Subject:

PLU 261 Battery Remediation

**Attachments:** 

Initial C-141-2RP-2333.pdf; Inital C-141-2RP-2957.pdf; C-141-2RP-1012.pdf; 1.PLU 261

Battery.pdf

#### Mike/ Heather

Please find the attached (PLU 261 Battery email) that outlines the agreed to work plan from our meeting. I have been putting the work plan together for Ft Worth's approval and would like to ensure that the previous agreement and work plan remains to be approved by the OCD. I would like to address all three open C-141's as discussed. Please let me know if you have any questions or concerns and if there is a need for a brief refresher on the site I would be happy to meet with you to discuss. Thank you.

Brad Blevins
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

From: To: Blevins, Bradley Bratcher, Mike, EMNRD Blevins, Bradley

Cc: Subject:

PLU 261 Battery

Date:

Monday, September 22, 2014 1:17:45 PM

#### Mike,

Per our meeting today 9-22-14, it was agreed that BOPCO would excavate one foot of material from the areas containing sample points one through sixteen. SP 8, we will collect more samples at one and two feet bgs and submit them to you via email. We do have field screening info from this sampling event if needed. A small area around SP 11 will be lined with a layer of compacted clay, this area will be risked out due to the close proximity of the process equipment. The well pad area and recent minor non reportable truck spill will be remediated between 6 inches to one foot. The current battery area, once removed will be delineated and submitted to you for approval. Thank you for taking the time today to meet with me. If you have any questions or concerns please let me know.

Thanks,

Brad Blevins
Assistant Remediation Foreman
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

#### **Blevins, Bradley**

From:

Patterson, Heather, EMNRD < Heather. Patterson@state.nm.us>

Sent:

Monday, March 14, 2016 10:06 AM

To:

Blevins, Bradley

Cc:

Bratcher, Mike, EMNRD

Subject:

RE: PLU 261 Battery Remediation

RE: BOPCO \* PLU 261 Battery \* 30-015-34877 \* 2RP-2333 \* 2RP-2957 \* 2RP-1012

#### Bradley,

Our agreed upon work plan for the above listed releases still stands. Due to the age of the sampling, additional confirmation samples may be necessary, but that may be done with field screens.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson Environmental Specialist NMOCD District II Office (575)748-1283 ext.101 Cell (575)703-0228

From: Blevins, Bradley [mailto:BBlevins@BassPet.Com]

Sent: Thursday, March 10, 2016 10:30 AM

To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD

Cc: Blevins, Bradley

Subject: PLU 261 Battery Remediation

#### Mike/ Heather

Please find the attached (PLU 261 Battery email) that outlines the agreed to work plan from our meeting. I have been putting the work plan together for Ft Worth's approval and would like to ensure that the previous agreement and work plan remains to be approved by the OCD. I would like to address all three open C-141's as discussed. Please let me know if you have any questions or concerns and if there is a need for a brief refresher on the site I would be happy to meet with you to discuss. Thank you.

Brad Blevins
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329
Cell-1-432-214-3704
bblevins@basspet.com

# ATTACHMENT IV Laboratory Analytical Data



September 03, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 14:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014

09/03/2014

Project Name: PLU #261 TANK BATTERY

Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM Sampling Date: 08/20/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Kathy Perez

#### Sample ID: SP 1 @ SURFACE (H402616-01)

Reported:

BTEX 8021B	mg/	'kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	08/27/2014	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	100	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	15700	100	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	4510	100	08/27/2014	ND					
Surrogate: 1-Chlorooctane	80.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	427 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 1 @ 2' (H402616-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/27/2014	ND	432	108	400	7.69	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 2 @ SURFACE (H402616-03)

BTEX 8021B	mg/	'kg	Analyze	ed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	102	100	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	5420	100	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	2130	100	08/27/2014	ND					
Surrogate: 1-Chlorooctane	69.2	% 65.2-14	0						
Commenter 1 Chlores et al.	2246	0/ 62 6 15							

Surrogate: 1-Chlorooctadecane 334 % 63.6-154

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Celeg D. Keine



Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 2 @ 2' (H402616-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/28/2014	ND	400	100	400	0.00	

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Celey D. Keene



Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Kathy Perez Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 3 @ SURFACE (H402616-05)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	< 0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	< 0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	< 0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.9	50.0	08/27/2014	ND	185	92.6	200	2.15	
DRO >C10-C28	4000	50.0	08/27/2014	ND	203	101	200	2.87	
EXT DRO >C28-C35	1200	50.0	08/27/2014	ND					
Surrogate: 1-Chlorooctane	92.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	181 9	63 6-15	14						

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Celey D. Keine



Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Analyzed Byrck

Project Location: EDDY COUNTY, NM

ma/ka

#### Sample ID: SP 3 @ 6' (H402616-06)

RTFY 8021R

тд/кд		Analyzed By: CK						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
<0.300	0.300	08/28/2014	ND					
105 9	% 89.4-12	6						
mg/kg		Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1550	16.0	08/28/2014	ND	400	100	400	0.00	
mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/28/2014	10.3	200	100	200	0.943	
16.5	10.0	08/28/2014	ND	203	102	200	1.18	
<10.0	10.0	08/28/2014	ND					
104 9	% 65.2-14	0						
120 9	% 63.6-15	4						
_	<0.050 <0.050 <0.050 <0.150 <0.300  105 9  Result 1550 mg/ Result <10.0 16.5 <10.0	<ul> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.150</li> <li>&lt;0.300</li> <li>0.300</li> <li>89.4-12</li> <li>mg/ky</li> <li>Result Reporting Limit</li> <li>1550 16.0</li> <li>mg/ky</li> <li>Result Reporting Limit</li> <li>&lt;10.0</li> <li>10.0</li> <li>10.0</li> <li>&lt;10.0</li> <li>10.0</li> <li>&lt;10.0</li> </ul>	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

#### Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 3 @ 10' (H402616-07)

Chloride, SM4500Cl-B	mg/	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/28/2014	ND	400	100	400	0.00	

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P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 4 @ SURFACE (H402616-08)

BTEX 8021B	mg	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.100	0.100	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.100	0.100	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	0.474	0.300	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.600	0.600	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	26						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	142	100	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7740	100	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2350	100	08/28/2014	ND					
Surrogate: 1-Chlorooctane	126	% 65.2-14	10						
Surrogate: 1-Chloroctadecane	322	0/ 63 6 15	1						

Surrogate: 1-Chlorooctadecane 322 % 63.6-154

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Sample Received By:



### Analytical Results For:

Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: SP 4 @ 6' (H402616-09)

BTEX 8021B	mg/kg Analyzed By: ck								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	26						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	15.3	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	109	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	122	% 63.6-15	i4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 4 @ 10' (H402616-10)

Chloride, SM4500Cl-B mg/kg		кд	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/28/2014	ND	400	100	400	0.00	

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 5 @ SURFACE (H402616-11)

BTEX 8021B	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.3	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	1460	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	542	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	114 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	201	% 63.6-15	4						

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Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 5 @ 4' (H402616-12)

Chloride, SM4500CI-B	00Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/28/2014	ND	400	100	400	0.00	

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Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 6 @ SURFACE (H402616-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.100	0.100	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.100	0.100	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.300	0.300	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.600	0.600	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	100	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7950	100	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2440	100	08/28/2014	ND					
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	321	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact NONE GIVEN Sample Received By: Project Number: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 6 @ 4' (H402616-14)

BTEX 8021B	mg/	'kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2014	ND	1.76	88.1	2.00	2.39	
Toluene*	<0.050	0.050	08/28/2014	ND	1.62	81.0	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/28/2014	ND	1.83	91.6	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/28/2014	ND	5.49	91.4	6.00	1.71	
Total BTEX	<0.300	0.300	08/28/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	26						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	13.5	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	113 9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	127 9	% 63.6-15	i <i>4</i>						

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Celeg D. Keene



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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Kathy Perez Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: SP 7 @ SURFACE (H402616-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.8	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	3590	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1480	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	109	% 65.2-14	0						
Summanta 1 Chlorocatadasana	2521	0/ 62.6.15	. 1						

Surrogate: 1-Chlorooctadecane 252 % 63.6-154

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact NONE GIVEN Sample Received By: Project Number: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 7 @ 6' (H402616-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	20.6	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	115	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 7 @ 10' (H402616-17)

Chioride, SM4500CI-B	mg,	кд	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	08/28/2014	ND	400	100	400	0.00	

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Kathy Perez Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: SP 8 @ SURFACE (H402616-18)

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	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 89.4-12	26						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	52.1	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	4550	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1580	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	116	% 65.2-14	10						
Commenter 1 Chlores et al.	240	0/ 62 6 15	.,						

Surrogate: 1-Chlorooctadecane 248 % 63.6-154

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Sample Received By:



### Analytical Results For:

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil
Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

### Sample ID: SP 8 @ 6' (H402616-19)

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	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	< 0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	< 0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	17.4	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	112 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 9	63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 8 @ 10' (H402616-20)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/28/2014	ND	400	100	400	0.00	

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Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 9 @ SURFACE (H402616-21)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	54.9	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	6840	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	2020	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	119 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	292 9	% 63.6-15	4						

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Sample Received By:



### Analytical Results For:

Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil
Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: SP 9 @ 4' (H402616-22)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	26						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/28/2014	ND	400	100	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	27.2	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	121	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	135	% 63.6-15	i4						

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Celey D. Keine

\*=Accredited Analyte

Sample Received By:



### Analytical Results For:

Basin Environmental Service
JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil
Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

ma/ka

### Sample ID: SP 10 @ SURFACE (H402616-23)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	0.207	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	0.193	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	1.56	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	1.96	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	177	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	7280	50.0	08/28/2014	ND	203	102	200	1.18	
DRO > C10 C20									

Analyzed By: MC

Surrogate: 1-Chlorooctane 149 % 65.2-140
Surrogate: 1-Chlorooctadecane 250 % 63.6-154

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Sample Received By:



### Analytical Results For:

Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: SP 10 @ 4' (H402616-24)

BTEX 8021B	mg/kg Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	23.6	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	26.2	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	118 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	134 %	63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 11 @ SURFACE (H402616-25)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/28/2014	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	112 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	127 9	63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 11 @ 18" (H402616-26)

Chioride, SM4500CI-B	Analyze								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	08/28/2014	ND	416	104	400	0.00	

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 12 @ SURFACE (H402616-27)

EX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.4	50.0	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	4730	50.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	1470	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	131	% 65.2-14	0						
a	2.42								

Surrogate: 1-Chlorooctadecane 243 % 63.6-154

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Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact NONE GIVEN Sample Received By: Project Number: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 12 @ 2' (H402616-28)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/28/2014	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	08/28/2014	10.3	200	100	200	0.943	
DRO >C10-C28	87.5	10.0	08/28/2014	ND	203	102	200	1.18	
EXT DRO >C28-C35	54.9	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	116	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	139	% 63.6-15	4						

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Celeg D. Keene



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Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 13 @ SURFACE (H402616-29)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/27/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	674	10.0	08/27/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	277	10.0	08/27/2014	ND					
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	149	% 63.6-15	4						

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Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 13 @ 2' (H402616-30)

Chioride, SM4500CI-B	mg,	/kg	Analyze	а ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 14 @ SURFACE (H402616-31)

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	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	< 0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	< 0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2014	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	08/27/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/27/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/27/2014	ND					
Surrogate: 1-Chlorooctane	97.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63 6-15	14						

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 14 @ 1' (H402616-32)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/28/2014	ND	416	104	400	0.00	

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P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 15 @ SURFACE (H402616-33)

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	09/03/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	09/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 89.4-12	26						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	72.1	50.0	09/02/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	9670	50.0	09/02/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	3050	50.0	09/02/2014	ND					
Surrogate: 1-Chlorooctane	92.3	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	304	% 63.6-15	i <i>1</i>						

Surrogate: 1-Chlorooctadecane 304 % 63.6-154

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JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 15 @ 1' (H402616-34)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	08/28/2014	ND	416	104	400	0.00	

### Sample ID: SP 15 @ 4' (H402616-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2014	ND	416	104	400	0.00	

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Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014

Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 16 @ SURFACE (H402616-36)

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	09/03/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	09/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.9	10.0	09/03/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	1250	10.0	09/03/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	446	10.0	09/03/2014	ND					
Surrogate: 1-Chlorooctane	146	% 65.2-14	0						
6	1.7.7	0/ /2/15							

Surrogate: 1-Chlorooctadecane 177% 63.6-154

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Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/20/2014 Reported: 09/03/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SP 16 @ 2' (H402616-37)

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	09/03/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	09/03/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/03/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	09/03/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	09/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2014	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	09/02/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	09/02/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	09/02/2014	ND					
Surrogate: 1-Chlorooctane	92.8 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celeg D. Freene

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

)1 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

The state of the s	Easin Elivilolillerital Service recrinologies, LLC	GUIIO	ogles	ס, רבכי		BILL IO						DND	ANAL YSIS	BEC	RECHEST	1
Project Manager:	: Joel Lowry				P.O. #:			1							100	$\int_{0}^{\infty}$
Address: P.O.	P.O. Box 301				Company:	ROP	ROPCO I P									
City: Lovington	State: NM		į.	<b>Zip:</b> 88260	Attn:	Tony Savoie	D									
Phone #: (575)	(575)396-2378 <b>Fax #</b> : (575)396-1429	5)396	.1429		Address:	522 W Marland	arland						_			
Project #:	Project Owner:	vner:			Citv:	Carlehad	1				ı					
Project Name:	PLU #261 Tank Battery				State: NM	Zin:	88220	,	M)	IB)	ΓPH					
Project Location:	Eddy Co., NM					(432)55	9720	ride	015	302°	OR '					
Sampler Name:	Joel Lowry				Fax #	(100)000	0.00	hlo	4 (8	X (8	F					_
FOR LAB USE ONLY		4	$\dashv$	MATRIX	PRESERV	/ SAMPI ING	Sol	C	ΓPI	TE	LI				_	
		OMP								E	Н					
Lab I.D.	Sample I.D.	OR (C)	****	WATER	SE:		,									
402616		(G)RAB	# CONT	GROUN WASTE SOIL OIL SLUDGE	OTHER ACID/BAICE / CO	DATE	TIME									
-	SP #1 @ Surf	9	_		×	<u>∞</u>	920	×	1	1	1	1	$\downarrow$	+	+	+
بان	SP #1 @ 2'	9	_	×	×	8/20/14	925	×	_	_	_	4	4	+	+	+
= 1	SF#2@Surf	9		×	×	8/20/14	935	×	×	×		4	4	+	1	
7.	SF #2 @ 2	9	_	×	×	8/20/14	940	×		-			4	+	+	+
-6	SP#3@Surf	9	_	×	×	8/20/14	950	×	K	<	$\downarrow$	_	+	+	+	+
6	SP #3 @ 6'	9	_	×	×	8/20/14	1000	×	× 1	< >	4	4	+	+	+	+
1	SP #3 @ 10'	9	_	×	×	8/20/14	1010	<	,	1	1	1	+	+	+	+
02	SP #4 @ Surf	9	_	×	×	8/20/14	1015	( )	١	*	1	+	+	+	+	
2	SP #4 @ 6'	9	_	×	× ;	8/20/14	1030	××	<b>&gt;</b> >	× >	4	+	+	+	+	
0/	/C SP#4 @ 10' 9 1 x x 8/20/14 1040	9	_	×	×	8/20/14	1040	$\dashv$	-	-	4	1	+	+	+	+

Relifiquished By: Relinquished By: Delivered By: (Circle One) Time: Received B Fax Result: REMARKS: Phone Result:

Sample Condition CHECKED BY:
Cool Intact (Initials)
Pres Pres
No No No

Phone Result: | Yes | No | Add'l Phone #:
Fax Result: | Yes | No | Add'l Fax #:
REMARKS: | HOLD FOR TPH
Please email results to pm@basinenv.com,
TASavoie@BassPet.com & SJWalters@BassPet.com

FORM-006 Revision 1.0 Sampler - UPS - Bus - Other:

454

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

### ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Manne.	. Pasiii Elivironimental Service Lechnologies, LLC	inologi	es, LLC	<b>G</b>	BILL TO						ANAI YSIS	200		RECHEST	
Project Manager:	: Joel Lowry			P.O. #:			Ť						7	OE 31	
Address: P.O.	P.O. Box 301			Company:	BOPCO I P	Ö									
City: Lovington	n State: NM	Zip:	<b>Zip:</b> 88260	Attn:	Tony Savoie	Ď į									
Phone #: (575)	(575)396-2378 <b>Fax #</b> : (575)396-1429	396-14	29	Address:	522 W Marland	arland									
Project #:	Project Owner:	ň		City:	Carlshad					1				-	
Project Name:	PLU #261 Tank Battery	,		Z Z	7in: S	88330		M)	IB)	ГРН		_			
Project Location:	: Eddy Co., NM			‡	3)556	0730	ride	015	302°	OR					
Sampler Name:	Joel Lowry			Fax #:	1.00/000	o.	hlo	H (8	X (	) F					
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLING	<u>ة</u>	C	ГРІ	BTE	OLI					
Lab I.D.	Sample I.D.	OR (C)OMP	DWATER VATER						ı	н					
			# CONT GROUN WASTEN SOIL OIL SLUDGE	OTHER ACID/BA ICE / CO OTHER :	DATE	TIME					·				
11	SP #5 @ Surf	9	×	_	8/20/14	1100	×	-	1	$\perp$	1	+	+	+	‡
10	SP #5 @ 4'	9	×	×	8/20/14	1110	×	ł	1	_	_	7.1	+	+	+
10	SP #6 @ Surf	9	×	×	8/20/14	1120	×	×	×		_	+	+	+	+
14	SF#6@4	9	×	×	8/20/14	1130	×	×	~		4	4	+	+	+
15	SP #7 @ Surf	9	×	×	8/20/14	1140	×	<	*		4	+	+	+	+
16	SP #7 @ 6'	9	×	×	8/20/14	1150	< :	٠ >	•	1	1	+	+	+	+
17	SP #7 @ 10'		×	×	8/20/14	1200	( )	7	-	_	+	+	+	+	+
~	SP #8 @ Surf	_	Υ .	< ;	0/00/44	1200	>	-	1	1	$\perp$	+	+		
10	SP #8 @ 6'	_		× >	8/20/14	1220	×	<b>\</b>	•	$\perp$	+	+	+	+	+
11							,	+	^	+	$\downarrow$	+	+	+	+

Sampler - UPS - Bus - Other: Relinquished By Relinquished By: Delivered By: (Circle One) Time: Received By: Sample Condition
Cool Intact
Cyes 1 Yes
No No by client, its subsidiaries, Fax Result: REMARKS: Phone Result:

CHECKED BY: (Initials)

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

□ Yes

O No

Add'l Phone #: Add'l Fax #:

HOLD FOR TPH

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Revision 1.0 FORM-006

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

				1	1						ANA			1		
owry				P.O. #:			7	٦	$\forall$				- 1		╢	
				Company:	ВОРС	0. LP										
State: NM	Zip:		260	Attn:	Tony Sav	oie .								_	_	
Fax #: (575)3	96-14	29		Address:	522 W. M	arland									-	
Project Owner				City:	Carlsbac	_				1						
Tank Battery					7in.	00000		M)	IB)	ΓPΗ						
Co NM					rip.	02200	de	15	21	R 7						
Co., NM				Phone #:	(432)556	8730	orio	801	(80	OF						
,				Fax #:			Chlo	H (8	X (	D F						
		4	MATRIX	PRESER	٦	ล์	(	ГР	TE	DL						
		-	R						В	Н						
Sample I.D.	TAX BUT IN	-	WASTEWATE SOIL OIL	ACID/BASE: CE / COOL		i i										
SP #9 @ Surf	_	$\overline{}$	×	×	$\neg$	1240	<	×	·		1	1	+	+	+	ļ
SP #9 @ 4'	g	_	×	×	8/20/14	1250	×	-				_	+	+	+	+
SP #10 @ Surf	9	_	×	×	8/20/14	1300	×	× ?	•			4	+	+	+	+
SP #10 @ 4'	9		×	×	8/20/14	1310	×	×	× -			4	+	+	+	+
SP #11 @ Surf	9	P3	×	×	8/20/14	1320	×	-	-			4	+	+	+	+
SP #11 @ 18"	9		×	×	8/20/14	1330	×	ł			4	$\downarrow$	+	+	+	+
SP #12 @ Surf	9		×	×	8/20/14	1400	×	2	0		$\downarrow$	+	+	+	+	1
SP #12 @ 2'			×	×	8/20/14	1405	×	× .,	<		1	+	+	+	+	1
SP #13 @ Surf	-		×	×	8/20/14	1415	× ;	<b>\</b>	-	$\perp$	1	+	+	+	+	1
SP #13 @ 2'	9		×	×	8/20/14	1420	× ;	*		_	1	+	+	+		-
	: Joel Lowry  Box 301  7	State: NM Zip:  Fax #: (575)396-14  Project Owner:  Tank Battery  Co., NM   Y  SP #9 @ Surf SP #10 @ Surf SP #11 @ Surf SP #11 @ Surf SP #12 @ Surf SP #12 @ Surf SP #13 @ Surf SP #14 @ Surf SP #15 Indiation to sur out the sur ou	State: NM Zip: 88  Fax #: (575)396-1429  Project Owner:  Tank Battlery  Co., NM   SP #9 @ Surf	Joel Lowny    State: NM   Zip: 88260	P.O. #:   State: NM   Zip: 88260   Attn:     Fax #: (575)396-1429   Address:     Project Owner:   State: NN     Co NM   Phone #:   Presered	Project Manager:   Joel Lowny   State: NM   Zip: 88260   Attn:   Tony Savole   Project State: NM   Zip: 88260   Attn:   Tony Savole   Project Mame:   PLU #261 Tank Battery   Project Owner:   Project Owner:   Project Location:   Eddy Co., NM   Project Location	P.O. #:   Company:   BOPCO, LP	Company:   BOPCO, LP		× × × × × × × × Chloride	X X X X X X X X X X X Chloride TPH (8015M)	×         ×	× × × × × × × × × × × × × × × × × × ×	TPH (8015M)  BTEX (8021B)  HOLD FOR TPH	TPH (8015M)  BTEX (8021B)  HOLD FOR TPH	TPH (8015M)  BTEX (8021B)  HOLD FOR TPH

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Received By:

loss of use, or loss of profits incurred by client, its subsidiaries,

Fax Result: REMARKS: Phone Result:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

Religquished By

Relinquished By:

Sample Condition
Cool Intact
Ares Ares
No No

CHECKED BY:

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH

# RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

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 30 days after completion of the applicable PLEASE NOTE: Liability and Damages. Cardinal's liability and City: Sampler Name: Project Location: Project Name: Project #: Project Manager: Company Name: Phone #: Address: P.O. Box 301 FOR LAB USE ONLY Lab I.D CU 50 CH CH CH 36 Sign Lovington (575)396-2378 Joel Lowry PLU #261 Tank Battery Eddy Co., NM Basin Environmental Service Technologies, LLC Joel Lowry Sample I.D. SP #16 @ Surf SP #15 @ Surf SP #14 @ Surf SP #16 @ 2' SP #15 @ 4' SP #15 @ 1' SP #14 @ 1' Project Owner: Fax #: (575)396-1429 State: sive remedy for any iges, including without limitation, business interr Z Zip: 9 9 9 9 9 9 9 G)RAB OR (C)OMP # CONTAINERS 88260 GROUNDWATER WASTEWATER MATRIX OIL SLUDGE OTHER City: Fax #: Phone #: State: NM P.O. #: Attn: Company: Address: ACID/BASE: PRESERV. × × × × × × ICE / COOL OTHER BILL TO Zip: 8/20/14 8/20/14 8/20/14 8/20/14 8/20/14 8/20/14 8/20/14 DATE Tony Savoie 522 W. Marland SAMPLING (432)556-8730 Carlsbad BOPCO, LP 88220 1510 1450 1515 1500 1445 1435 1430 TIME × Chloride TPH (8015M) BTEX (8021B) HOLD FOR TPH ANALYSIS REQUEST

Revision	FORM-00
1.0	06

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Received

Relinquished By

Relinquished By:

uptions, loss of

oss of profits incurred by client, its subsidiaries

Fax Result: REMARKS:

Phone Result:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

Cool Intact

Yes Yes

No No Sample Condition

CHECKED BY:

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH



September 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 14:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

### Sample ID: WP #1 @ SURFACE (H402617-01)

EDDY COUNTY, NM

Project Location:

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	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2014	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	271	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	174	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	128	% 63.6-15	4						

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Celey D. Keine

Cardinal Laboratories

\*=Accredited Analyte



Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: WP #1 @ 1' (H402617-02)

Chioride, SM4500CI-B	mg/	кд	Anaiyze	а ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/28/2014	ND	416	104	400	3.92	

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Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: WP #3 @ SURFACE (H402617-03)

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	08/29/2014	ND	1.74	87.2	2.00	6.13	
Toluene*	<0.050	0.050	08/29/2014	ND	1.62	80.9	2.00	5.37	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.85	92.3	2.00	4.17	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.48	91.4	6.00	4.42	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/28/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	51.5	50.0	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	5890	50.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	1440	50.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Summarata: 1 Chlomocatadagana	226	0/ 62.6.15	. 1						

Surrogate: 1-Chlorooctadecane 236 % 63.6-154

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: WP #3 @ 1' (H402617-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2014	ND	416	104	400	3.92	

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Kathy Perez

Sample Received By:



### **Analytical Results For:**

Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil
Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Name: PLU #261 TANK
Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: WP #4 @ SURFACE (H402617-05)

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	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/28/2014	ND	416	104	400	3.92	
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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					
Surrogate: 1-Chlorooctane	93.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

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Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: WP #4 @ 1' (H402617-06)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2014	ND	416	104	400	3.92	

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Kathy Perez

Sample Received By:



### Analytical Results For:

Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil
Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

### Sample ID: WP #5 @ SURFACE (H402617-07)

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	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTEX	<0.300	0.300	08/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 89.4-12	6						
Chloride, SM4500Cl-B	ma/	(ka	Analyzo	d Rv: AP					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/28/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	771	50.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	282	50.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 98.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 163 % 63.6-154

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Celeg D. Freene



Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/26/2014 Sampling Date: 08/21/2014

Reported: 09/02/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: WP #5 @ 1' (H402617-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/28/2014	ND	416	104	400	3.92	

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

company Name:	Basin Environmental Service Technologies, LLC	nolo	gies	s, LLC			0	BILL TO						<b>D</b>	SISA IVNO	3		RECHEST	7	1				
Project Manager:	Joel Lowry				P.O.	5.#	1	000000000000000000000000000000000000000		T	٦	$\dashv$	$\dashv$	┨,	_ {		- 1	إ	1	1	7	+	4	$\perp$
Address: P.O. Box 301	ox 301				င္ပ	<u>m</u>	Company:	BOPCO, LP	0. [구						,									
City: Lovington	State: NM	Zip	9	Zip: 88260	Attn:			Tony Savoie	ē	Τ		+	+	_				+	_			+	_	
	(575)396-2378 <b>Fax #</b> : (575)396-1429	96-1	1429	9	Ado	Address:	SS	522 W. Marland	ırland					-										
Project #:	Project Owner:	ā			City:	Υ.		Carlsbad				_		-										
Project Name: P	PLU #261 Tank Battery				State:	te:	Z	Zip: 8	88220	е	M)	1B)		TPI										
Project Location:	Eddy Co., NM			2	אם	Dhone #	*	2)55	2700	ride	015	302		)K				_						
	pol I puro					0	7.	(452)550-0750	0670	lo	(8	. (8	_	-				_				_		
Sampler Name: Jo	Joel Lowry				Fax #	#				Ch	Ή	ΕX		ט										_
FOR LAB USE ONLY				MATRIX		PRE	PRESERV.	SAMPLING	G	(	TP	вті		OL.									_	
Lab I.D. #403w17	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME					Н								-		
,-	WP #1 @ Surf	9	_					8/21/14	900	×	$\exists$	$\forall$	+	+	4			7	+	-	T	+	+	$\perp$
۵	WP #1 @ 1'	9	_	×			×	8/21/14	905	×		$\forall$	+	+	4			$^{\dagger}$	+			+	+	
U	WP #3 @ Surf	9	_	×			×	8/21/14	910	×		$\forall$		+				$^{\dagger}$	+			+	+	
<b>-</b>	WP #3 @ 1'	9	_	×			×	8/21/14	915	×		$\forall$	+	+	_			$\top$	+			+	+	
5	WP #4 @ Surf	9	_	×			×	8/21/14	920	×		7	+	+	4			$^{\dagger}$	+			+	+	
6	WP #4 @ 1'	9	7	×			×	8/21/14	925	×		$\dagger$	+	+	4			$\dagger$	+		7	+	+	
7	WP #5 @ Surf	9	_	×			×	8/21/14	930	×		$\dagger$	+	+	4			$^{\dagger}$	+		T	+	+	
∞	WP #5 @ 1'	9	_	×			×	8/21/14	935	×	7	$\dagger$	+	+	4			$\dagger$	+			+	+	
												$\neg$	+	+	4			$\top$	+			+	+	
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analyses. All claims including those for negligence service. In no event shall Cardinal he liable for incidents.	analyses. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In or word shall Cardinal within 30 days after completion of the applicable	claim emed	arising	g whether based in contract or to d unless made in writing and rec	ort, sha eived	all be I by Ca	imited to t rdinal with	he amount paid by t in 30 days after com	he client for the appletion of the ap	pplicable		- 1	ŀ	ŀ	-			ı	ŀ			ŀ	+	L
service. In no event shall Cardinal	he liable for incidental or consequental demands in their	-	-		)				do our se mand.	-														

Relinquished By: Fax Result: REMARKS: Phone Result:

□ Yes

O O O

Add'l Phone #: Add'l Fax #:

Cool Intact
Yes Yes
No No Sample Condition

CHECKED BY:

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Received B



September 12, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/08/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/08/2014 Sampling Date: 09/05/2014

Reported: 09/12/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP #1A 18" (H402776-01)

TPH 8015M	mg/k	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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	243	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	76.7	10.0	09/10/2014	ND					
Surrogate: 1-Chlorooctane	93.9 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 %	63.6-15	4						

### Sample ID: SP #2A 18" (H402776-02)

TPH 8015M	mg/l	кg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	3340	50.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	1210	50.0	09/10/2014	ND					
Surrogate: 1-Chlorooctane	96.2 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	186 %	63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/08/2014 Sampling Date: 09/05/2014

Reported: 09/12/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP #9A 18" (H402776-03)

TPH 8015M	mg/l	кg	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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	214	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	73.2	10.0	09/10/2014	ND					
Surrogate: 1-Chlorooctane	96.5 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 %	63.6-15	4						

### Sample ID: SP #15A 18" (H402776-04)

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	<50.0	50.0	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	1410	50.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	335	50.0	09/10/2014	ND					
Surrogate: 1-Chlorooctane	104 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	146 %	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/08/2014 Sampling Date: 09/05/2014

Reported: 09/12/2014 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP #16A 18" (H402776-05)

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	09/10/2014	ND	171	85.7	200	3.50	
DRO >C10-C28	21.0	10.0	09/10/2014	ND	194	96.8	200	2.80	
EXT DRO >C28-C35	<10.0	10.0	09/10/2014	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 9	% 63.6-15	4						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	6							١		ANAL YSIS		REQ	REQUEST			
Company Name:	Basin Environmental Service Technologies, LLC	logies			DIEF 10		4	4		4	-		$\dashv$	+		-	
Project Manager:	Joel Lowry			F.O. #.			_					_		_	_	_	
Address: P.O. Box 301				Company:	BOPCO, LP	, LP											
City: Lovington	State: NM	Zip:	Zip: 88260	Attn:	Tony Savoie								_				
le #	6-2378 <b>Fax #</b> : (575)396-1429	6-142		Address:	522 W. Marland	and											
Project #:	Project Owner			City:	Carlsbad			<b>/</b> )	B)	ГРН							
Project Name: P	PLU #261 Tank Battery			State: NM	<b>Zip:</b> 88	88220	ide	15N	021	R 1			_				
Project Location:	Eddy Co., NM			Phone #:	(432)556-8730		lor	(80	(8	FC							
Sampler Name:				Fax #:			Ch	PH	TE)	LD						_	-
TOD AT HOLD ONLY		$\exists$	MATRIX	PRESERV.	. SAMPLING	G		Т	В	НС			-	_		_	_
Lab I.D.	Sample I.D.	RAB OR (C)OMP.	DUNDWATER STEWATER L UDGE	HER: D/BASE: // COOL HER:							x		•			¥ 4	
9LLZOHH			GF W/ SC	A(	+	1105	1	<u> </u>			1	4	4	+			_
_	SP #1a @ 18"	9	×	×	9/3/14		1	,			4	4	_				_
2	SP #2a @ 18"	9	×	×	9/5/14	1110		×			1	1	1	+	+		
N	SP #9a @ 18"	9	1 ×	×	9/5/14	1115		×			1	1	1	+	$\pm$		
4	SP #15a @ 18"	g	×	×	9/5/14	1120		×				1	1	+		-	
lr.	SP #16a @ 18"	9	×	×	9/5/14	1125		×			_	1	$\perp$	+	+	+	
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affiliates or successors arising of	entice. In no event shall cardinal be laure for indexention of services hereunder by Carffiliates or successors arising out of or related to the performance of services hereunder by Ca	ardinal, re	Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise  Phone Ru	based upon any of t	he above stated reaso	Phone Result:	it:	□ Yes	-	N <sub>O</sub>	Add'l Phone #:	hone #					
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Pes Pes
No No

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

2.20



June 14, 2016

**Daniel Dominguez** 

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/08/16 11:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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: 06/08/2016 Sampling Date: 06/07/2016

Reported: 06/14/2016 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: PLU 261 SP 8 1' (H601254-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/10/2016	ND					
Surrogate: Dibromofluoromethane	103	% 90.4-11	1						
Surrogate: Toluene-d8	95.4	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	117	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/09/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2016	ND	206	103	200	0.676	
DRO >C10-C28	1030	50.0	06/09/2016	ND	211	105	200	1.88	
EXT DRO >C28-C35	428	50.0	06/09/2016	ND					
Surrogate: 1-Chlorooctane	86.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	130	% 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: 06/08/2016 Sampling Date: 06/07/2016

Reported: 06/14/2016 Sampling Type: Soil

Project Name: PLU #261 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: CK

Project Location: NOT GIVEN

### Sample ID: PLU 261 SP 8 2' (H601254-02)

RTFY 8260R

BTEX 8260B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/10/2016	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	97.4	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	104	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/09/2016	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2016	ND	206	103	200	0.676	
DRO >C10-C28	937	50.0	06/09/2016	ND	211	105	200	1.88	
EXT DRO >C28-C35	371	50.0	06/09/2016	ND					
Surrogate: 1-Chlorooctane	84.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	139	% 28-171	,						

### Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

S-06

\*\* 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  $6^{\circ}\text{C}$ 

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 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related 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

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

**Environmental Plus, Inc.** 

LAB Cardinal

**EPI Sampler Name** Location **Facility Name** Client Company EPI Phone#/Fax# City, State, Zip **EPI Project Manager** Company Name Relinguished by: Sampler Relinquished: Mailing Address (575) 394-3481 FAX: (575) 394-2601 H601254 Sound LAB I.D. 10 PLU 261 SP 8 2ft PLU 261 SP 8 1ft SAMPLE I.D. **Daniel Dominguez** PLU 261 Tank Battery 575-394-3481 / 575-394-2601 **Eunice New Mexico 88231** P.O. BOX 1558 **Environmental Plus, Inc. David Robinson** BOPCO Time 0700 Date 8 - 16 9.8-19 Received By 9 (G)RAB OR (C)OMP. G # CONTAINERS **GROUND WATER** WASTEWATER MATRIX SOIL CRUDE OIL SLUDGE 522 W. Mermod, Suite 704 OTHER: Carlsbad, NM 88220 Attn: Brad Blevins PRESERV. ACID/BASE BOPCO, L.P. E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com NOTES ICE/COOL Bill To OTHER 07-Jun-16 07-Jun-16 DATE SAMPLING 13:10 13:00 TIME **BTEX 8021B TPH 8015M** CHLORIDES (CI') **ANALYSIS REQUEST** SULFATES (SO4") pH TCLP OTHER >>> PAH

Delivered by:

2tic

Sample Gool & Intact Yes No

# ATTACHMENT V Copy of Initial NMOCD Form C-141's Final C-141's

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, 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

My 1. 1 %

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

RECEIVED

Form C-141 Revised October 10, 2003

JAN 3 0 2012

Submit 2 Copies to appropriate

NMOCD ARTESIA th Rule 116 on back

side of form

30-015	-3487	7	Rele	ase Notific	ation	and Co	rrective A	ction	l			
nMLB 120	THE RESERVE THE PERSON NAMED IN					<b>OPERA</b>				al Report		Final Repor
Name of Co				260737		Contact Ton						
		nod, Suite 70 Lake Unit #2		ad, N.M. 88220		relephone Nacility Typ	No. 432-556-873	30				
			<u> </u>				C LOCI					
Surface Ow	ner Federa	ıl		Mineral O	wner F	ederal			Lease N	lo. NMLC	-0684	31
						OF REI	LEASE					
Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980	North/South	South Line	Feet from the 1880	East/\ East	West Line	County Eddy		
			L	atitude_N 32.2			de W 103.8831	03				
Type of Rele	ase: Produc	ed water and	crude oil	NAI	UKE	OF RELI	Release: 700 bbls	e of	Volume K	ecovered: f	00 hh	ls total fluid
						1	nd 10 bbls of prod	50	V Glame 1	cocovered.	,00 00	is total field
Source of Re	lease: Temp	orary Gas Pu	rge Tank.				our of Occurrence proximately 8:00			Hour of Dis 2:00 a.m.	covery	/
Was Immedi	ate Notice C					If YES, To		p.m.	1/17/12	2.00 a.111.		
			Yes [	No Not Re	quired		Phone extension					
By Whom? T							our 1/20/12 10:26 lume Impacting t					
Was a Water	course reac		Yes 🛛	No		II 1E3, VO	iume impacting u	ne wate	crcourse.			
If a Watercon	urse was Imp	pacted, Descri	be Fully.*						· · · · · · · · · · · · · · · · · · ·			
Describe Cau surge and put was corrected	shed all of the	em and Remed ne oil out of th	lial Action e product	Taken.* A new vion vessels into a t	vell was empora	brought onto	the production a tank which overfl	t the PI owed.	.U-261 batt The well wa	ery, the new as shut in an	well d the g	went on gas gas problem
Describe Are	a Affected a	ind Cleanup A	ction Tak	en.*The area arou	nd the li	ned tank con	tainment was enc	losed w	ith an earth	en berm wh	ich ke	pt all of the
for the week	n truck and of 1/30/12 to	the heavily sa determine th	turated so	An area measuring An area measuring the process of the contract around the contract ar	ess vesse process	els and lines a	was hand dug and nd under the lined	stockp	iled on-site nment.	The free oil . A sampling	was re g even	ecovered t is scheduled
The Site reme	fy that the in	the produced	water and	crude oil spill will is true and comple	follow	the NMOCD	guidelines for le	aks and	spills.	want to NTM	OCD -	ndag ond
regulations a	ll operators a	are required to	report an	d/or file certain re	lease no	tifications an	d perform correct	ive acti	ions for rele	ases which	may e	ndanger
public health	or the envir	onment. The	acceptance	e of a C-141 repor investigate and re	t by the	NMOCD ma	rked as "Final Re	port" d	oes not reli	eve the oper	ator o	f liability
or the environ	nment. In ac	Idition, NMO	CD accept	ance of a C-141 re	port do	es not relieve	the operator of re	esponsi	bility for co	, surface wa ompliance w	ith any	y other
			2				OIL CONS	ERV	ATION	DIVISIO	N	
Signature:	1 ou	- Da	uno			nneoved by I	District Sunancha	4/	1 ,			
Printed Name	: Tony Savo	oie				pproved by i	District Supervise	W11/4	DKNA	West -	-	
Title: Waste l	Mgmt.& Rer	mediation Spe	cialist		A	pproval Date	FEB 1 4 20	12	Expiration I	Date:		
E-mail Addre	ss: TASavo	ie@BassPet.c	om	A STATE OF THE STA	c	onditions of	Approval:	مارم	9.	Attached		
Date: 1/30/12				Phone:432-556-87	730	Remedia	ation per OCD	Rules	ION	, ituation	<u></u>	
Attach Addit		ts If Necessa	ry		G	uidelines.	SUBMIT REMI	IAN:	nversetat 1971 til 1	IRP	_ 16	7/2-

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

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 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

				ase Notific	ation	and Co	rrective A	etion			
		29450	0			<b>OPERA</b> 1			🛛 Initia	l Report	☐ 'Final Repo
Name of Co			04 Cowleh	74073 oad, N.M. 88220		Contact: Tor	ıy Savoie Io. 575-887-732	0			
		61 Tank Bat		Jau, IN.IVI. 00220			e: Exploration a		duction		
Surface Ow	ner: Feder	al		Mineral O	wner: F	ederal			API No	. 30-015-3	4877
				LOCA	TION	OF REI	LEASE				
Unit Letter J	Section 21	Township 24S	Range 30E	Feet from the 1980		South Line JTH	Feet from the 1880	East/W EA	est Line ST	County EDDY	
				Latitude N 32.2				5			
Tune of Dolo	oggy Canda	oil and produc	ad water	NAT	URE	OF RELI	Release: 40 bbls	orude	Volume F	ecovered:	20 bbls crude oil and
						oil and 50	bls produced wat	er	6 bbls pro	duced wate	er
Source of Re	elease: Tank	battery flow	line heade	г		6/3/14 at a	our of Occurrence oproximately 9:00	- 1		Hour of Dis 11:19 a.m.	scovery
Was Immedi	ate Notice (		Yes [	No Not Re	quired	If YES, To Mike Brate	Whom? her and Jim Amo	s via e-n	nail		
By Whom? 7	Tony Savoie				· ·		our: 6/3/14 at 1:4				
Was a Water	course Read		Yes 🗵	] No		If YES, Vo	lume Impacting to	he Wate <b>N</b>	M OIL	CONSER	IVATION
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*				*******		ESIA DISTE	
									JU	N 09 20	)14
									р	ECEIVE	:D
The crews w	ere perform e header and	the well was	ity test on						the test on	the PLU-3	24H a valve was let
equipment. The saturated soil removal	This spill is i d soil will be to determin	in the same pl e excavated by e the total ver	ace as a proy hand and tical and I	ken.* The release revious spill that he d a hydro-vae as fa norizontal extent o bllowing the comp	ad been or as prace f the spil	partially exc ticable aroust.	avated and sample and the process line	ed for co	impliance.	Reference:	
regulations a public health should their or the enviro	all operators n or the envi- operations honment. In a	are required to ronment. The ave failed to	o report as acceptand adequately OCD accep	e is true and comp nd/or file certain rece of a C-141 repo investigate and re otance of a C-141	elease no ort by the emediate	tifications a NMOCD m contaminati	nd perform correct arked as "Final Ro on that pose a thro	tive acti eport" de eat to gr	ons for rel oes not rel ound wate	eases which ieve the ope r, surface w	n may endanger erator of liability vater, human health
Signature:	e: Tony Say	Zaulu roie				Approved by	OIL CONS		1/	DIVISION	NC
		nt and Remed	iation Spe	cialist		Approval Da	e: 4/12/1	4	Expiration	Date: //	14
										1	
E-mail Addr	ess: tasavoi	abasspet.co	m	5		Conditions of	Approval:				. 🗆
E-mail Addr		e@basspet.co		Phone: 432-556-8		Kemediatīo	Approval: n per OCD Rule by BLM. <u>SUBMI</u>	& Guide	elines, &	Attached	d 🔲

# NM OIL CONSERVATION

ARTESIA DISTRICT

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
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

APR 1 6 2015

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in RECEIVE Scordance with 19.15.29 NMAC.

		1000	Rele	ase Notifica	ation	and Co	rective Ac	tion	•		
NABIE	1062	1955				<b>OPERAT</b>	OR	⊠ Iı	itial Report	Final Rep	port
Name of Co			<i>6</i>	160737			adley Blevins				
			04 Carlst	oad, N.M. 88220	) .		No. 575-887-73				
Facility Nar	ne: PLU #	201				Pacility Typ	e: Exploration a	and Producti	on		
Surface Ow	ner: Fede	ral		Mineral C	)wner:	Federal		AP	I No. 30. L	015-3487	7
				LOCA		OF REL	EASE				
Unit Letter	Section 21	Township 24S	Range 30E	Feet from the 1980	Nort	h/South Line South	Feet from the 1880	East/West I East	ine	County Eddy	
			La	titude: N 32.20				<u> </u>			•
Type of Relea	ase: crude o	oil and produc	ed water	NAIL	IKE	Volume of and 71 bbls	Release: 30 bbls	oil Volu	me Recovered:	30 bbls of fluid	-
Source of Rel	ease: head	er check valve	failure				our of Occurrence	e: Date 4/10/	and Hour of D	scovery:	
Was Immedia	ite Notice C		Yes 🗌	No 🗌 Not Re	quired	If YES, To Mike Brate	Whom? her, NMOCD			٠.	
By Whom? B							our: 4/10/15 @ 7				
Was a Watero	ourse Reac		Yes 🛛	No		Not Applica	lume Impacting the able	he Watercours	e:		
				Not Applicable						•	
barrels of oil t valve settings,	o the groun , area two w	d surface, the as an overspr	re was also ay area to	several areas whe the northwest of t	ere the	fluid did get o ery.	off the well pad.	Area one was	north of the bat		
release also m	isted approx	kimately 11,5	00 sq. ft. o	en.* The spill imp of pasture. BOPCO te spill will be cle	) plans	to spray the or	verspray area with	h a Micro-Bla	e mix and have	d pasture area. The a backhoe conduines.	ie ict
regulations all public health of should their of	operators a or the environment ha ment. In ad	are required to comment. The a ve failed to ad dition, NMO	report and acceptance lequately accept	is true and completed in the control of the control	lease n t by the mediate	otifications and e NMOCD ma e contamination	d perform correct rked as "Final Re n that pose a thre	ive actions for port" does not at to ground w	releases which relieve the ope ater, surface w	may endanger rator of liability ater, human health	1
		-		_			OIL CONS	ERVATIO	N DIVISH	ועוכ	
Signature:	Denne	My 3	Leven		_	A		1	1//	<i>'</i>	
Printed Name:	Bradley Bl	evins				Approved by E	invironmental Spe	ecialist:	1	ur.	$\dashv$
Title: Assistan	t Remediati	on Foreman				Approval Date	4116/15	Expirati	on Date: N	A	_
E-mail Addres	s: bblevins(	@basspet.com				Conditions of A	Approval: n per O.C.D.	Rules & (	iul (Almos		
Date: 5-/	6-15		Phone: 4	132-214-3704	-	LIBMIT RE	MEDIATION	PROPOS	ALNO		
Attach Addition	nal Sheets	If Necessary	•			ATER THA		15	_	2p. 2957	1

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 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

			Kele	ase Notific	atio	n and Co	rrective A	ction	1			
Name of C		ODGG =		-		<b>OPERAT</b>				-1 D	57	_
Address: 5'	22 W Mor	OPCO, L.P.	704 ~ 4				radley Blevins			al Report		Final Repo
Facility Na	me. PI II #	261; 2RP# 1	04 Carls	bad, N.M. 8822	0	Telephone	No. 575-887-73	329				
			1012			Facility Ty	pe: Exploration	and Pr	oduction			
Surface Ow	ner: Fede	ral		Mineral (	Owner							
									APIN	lo. 30-015-	34877	7
Unit Letter	Section	Township	Range	Feet from the	101	OF REL						
J	21	24S	30E	1980	Nort	h/South Line South	Feet from the 1880		West Line East		Cour	
			La	titude: N 32.20	1420°	Longitude	: W 103.88310	3°				
Type of Relea	ise: crude c	oil and produc				OF RELE	ASE					
						Volume of	Release: 700 bb	ls oil,	Volume	Recovered:	600 bb	l total
Source of Rel	ease: 1emp	orary Gas Pu	rge Tank			Date and H	our of Occurrence	e.	Date and	Hour of Dis		
Was Immedia	te Notice G	iven?				1/19/12@	approx. 8:00 pm		1/20/12	$\widehat{a}$ 12:00 am	covery	:
		$\boxtimes$	Yes	No Not Re	auired	If YES, To	Whom? Phone extension	11104				
By Whom? T	ony Savoie				1							
Was a Waterco	ourse Reach					If YES, Vol	our: 1/20/12 10:2 lume Impacting t	6 am				
			Yes 🛛	Not Applicable		Not Applica	able	ne wate	rcourse:			
Describe Cause A new well wa	S prolight of	nto the produc	stines -4 11	DITTOCAL								
Describe Area aroundarea measuring the process vess approval the co-	Affected and the lined tapproximatels and line intaminated	tank which of the product tank which of the containment of the contain	tion at the verflowed tion Taker ent was er . ft. was a ug and sto excavated	e PLU-261 battery I. The well was shown.*  n.*  nclosed with an eaffected by the spil ckpiled on-site. Sand hauled to a strue and complet	arthen but the l. The samples tate appearance to the	perm which ke free oil was re- were collecter proved dispose	pt all of the spille covered with a va d and sent for tes al facility, and the	ed fluid of acuum tring. Ba	on the well ruck and the sed on laboration backf	l pad and tan ne heavily sa oratory data illed with clo	k batte turated and NN ean soil	ry pad. An soil around MOCD
Describe Area The area around area measuring the process vess approval the co hereby certify egulations all of bublic health or hould their one	Affected and the lined the approximate sels and line intaminated that the informations have retained by the environ rations have	or required to add	tion at the verflowed tion Taken ent was er . ft. was a ug and sto excavated n above is eport and/ ceptance	e PLU-261 battery  I. The well was sh  n.*  nclosed with an ea  ffected by the spil	arthen by the last not the asse not by the last arther the asse not by the last arther the asse not by the last arther the last architecture.	perm which ke free oil was re- were collecte- proved disposa be best of my kr tifications and NMOCD mark	pt all of the spille covered with a va d and sent for tes al facility, and the nowledge and und perform corrections	ed fluid of acuum to ting. Bate excava	on the well ruck and th sed on lab stion backf that pursu	l pad and tan ne heavily sa oratory data illed with clo nant to NMO	ak batte turated and NM ean soil CD rul	ry pad. An soil around MOCD . es and anger
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# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			14016	ase Mothic	atio	on and Co	rrective A	ction	
Name of C	Ompany. D	BOPCO, L.P				<b>OPERA</b>			nitial D
Address: 5	22 W. Mer	mod Suite	704 C- 1	bad, N.M. 8822		Contact: B	radley Blevins		nitial Report     Final R
Facility Na	me: PLU #	261 Tank B	attern 2	bad, N.M. 8822	0	Telephone	No. 575-887-73	329	
			attery, 2	XP#2333		Facility Ty	pe: Exploration	and Production	on
Surface Ov	ner: Fede	ral		Mineral (	Owne	r: Federal			
								AP.	I No. 30-015-34877
Unit Letter	Section	Township	Range	Feet from the	Nor	N OF REL			
J	21	248	30E	1980	1101	South	Feet from the 1880	East/West Li East	ne County Eddy
			La	titude: <u>N 32.20</u>	1808	Longitude	W 103.883505	50	
Type of Relea	ice: omide -	:1 1 1				OF RELE			
Type of Relea						Volume of	Release: 40 bble	oil Volum	D
Source of Rel	ease: Tank	Battery flow	line heade	r		JU bbls pro	duced water	6 bbla	ne Recovered: 20 bbl oil produced water
				ı.		Date and H	our of Occurrence	e: Date a	nd Hour of Discovery:
Was Immedia	te Notice Gi		**				oprox. 9:00 am	6/3/14	@ 11:19 am
By Whom? T	Ony Correit		Yes [	No Not Rec	quired	Mike Bratel	ner and Jim Amos	s via email	
Was a Waterco	ony Savoie	ed?				Date and Ho	our: 6/3/14 1:49 n	m	
			Yes 🛛	No		If YES, Vol	ume Impacting th	e Watercourse:	
If a Watercour	CO MAN I			Not Applicable		Not Applica	ble		
losed on the hout in and the	eader and the	and Remedia g line integrity e well was pureplaced	y test on that the test on the	ne flow lines comi line. The excessive	ng int	o the tank batte	ery. After completence of the Victoria	tion of the test of	on the PLU-324H a valve was I
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District I 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

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

			Rela			re, NM 87.					
				ease Notifica	luoi			ction			
Name of C	ompany: E	BOPCO, L.P				OPERAT			Initi	al Report	
Address: 52	22 W. Mer	rmod. Suite	704 Carls	bad, N.M. 88220		Telephone	adley Blevins No. 575-887-73	120			
Facility Na	me: PLU #	#261; 2RP#2	957			Facility Tyr	be: Exploration	and Due	1		
Surface Ow	ner: Fede	eral		Min and O			De: Exploration	and Pro	duction		
				Mineral O					APIN	lo. 30-015-	34877
Unit Letter	Section	Township	D	LOCAT	IOI	OF REL	EASE				
J	21	24S	Range 30E	Feet from the 1980	Nort	h/South Line South	Feet from the 1880		Vest Line East		County Eddy
			La	titude: N 32.201	427°	Longitude:	W 103.883681	10			
T on i						OF RELE		_			
Type of Relea	ise: crude o	oil and produc	ed water			Volume of	Release: 30 bbls	oil	Volume	D 1	00.111
Source of Rel	ease: heade	er check valve	failura			71 bbls pro	duced water		volume	Recovered:	30 bbl total
			randic			Date and He 4/10/15 @ a	our of Occurrenc	1	Date and	Hour of Dis	covery:
Was Immedia	te Notice G					If YES, To	Whom?		4/10/15	a) am	•
Dy Whan 2 D	11 71		Yes	No Not Requ	uired	Mike Bratch	ner, NMOCD				
By Whom? B Was a Waterc	radiey Blev	vins had?				Date and Ho	our: 4/10/15 7:34	pm			
	ourse react		Yes 🛛	No		If YES, Vol	ume Impacting th	ne Water	course:		
If a Watercour				Not Applicable		Not Applica	ble				
Describe Area Describe Area The spill impact asture. BOPC amples were cate approved thereby certify egulations all cublic health or tould their one	Affected an acted approximated approximated approximated an acted an acted an acted an acted are that the infraperators are the environmental acted and acted and acted acted and acted acted and acted acted and acted approximately acted and acted approximately acted and acted	and Cleanup Adimately 18,90 spray the over d sent for test cility, and the cormation give e required to a core foiled to a design of the second secon	otion Take 0 sq. fi. of spray area ing. Based excavation on above is report and occeptance	pad area, caliche le with a Micro-Blaze don laboratory data a backfilled with cle s true and complete for file certain relea of a C-141 report b	ease ree mix and I ean so	oad and pasturn and have a base NMOCD approbil.  be best of my kratifications and NMOCD mark	e area. The releas ckhoe conduct su oval the contamin towledge and und perform correctived as "Final Ren	se also murface scruated soil	isted apprage on the has been that pursus s for release and release to the second seco	roximately II e areas that a excavated a excavated and to NMO	5500 sq. ft. of are accessible. In the hauled to a CD rules and any endanger
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rinted Name: B	radley Blev	vins			A	oproved by En	vironmental Spec	cialist:			
itle: Assistant I					Ap	proval Date:		Expi	iration Da	ite:	
mail Address:	2-11		Dhon 42	2 214 256	Co	onditions of Ap	proval:			Attached [	
ch Additiona	l Sheets If	Necessary	rnone: 43	2-214-3704							
		J						Automatical Control			