

BOPCO PLU Big Sinks 14-25-30 USA #001H

CLOSURE REPORT

2RP-1855-0

API No. 30-015-39508

Release Date: 8/1/2013

Unit Letter N, Section 14, Township 25 South, Range 30 East

December 17, 2013

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575)964-8394

PLU Big Sinks 14-25-30 #001H USA Battery

1 INTRODUCTION

Bass Enterprises Production Company (Bopco) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Carlsbad, NM, in Eddy County. The site resulted from driver disconnecting the hose from the water tanks leaving a valve open. This resulted in 42 bbls of produced water impacting approximately 7400 sq. ft. of tank battery pad. The valve was closed, and approximately 38 bbls of produced water was recovered. An initial form C-141 was submitted to the NMOCD on August 16, 2013. (Appendix I).

2 SITE ACTIVITIES

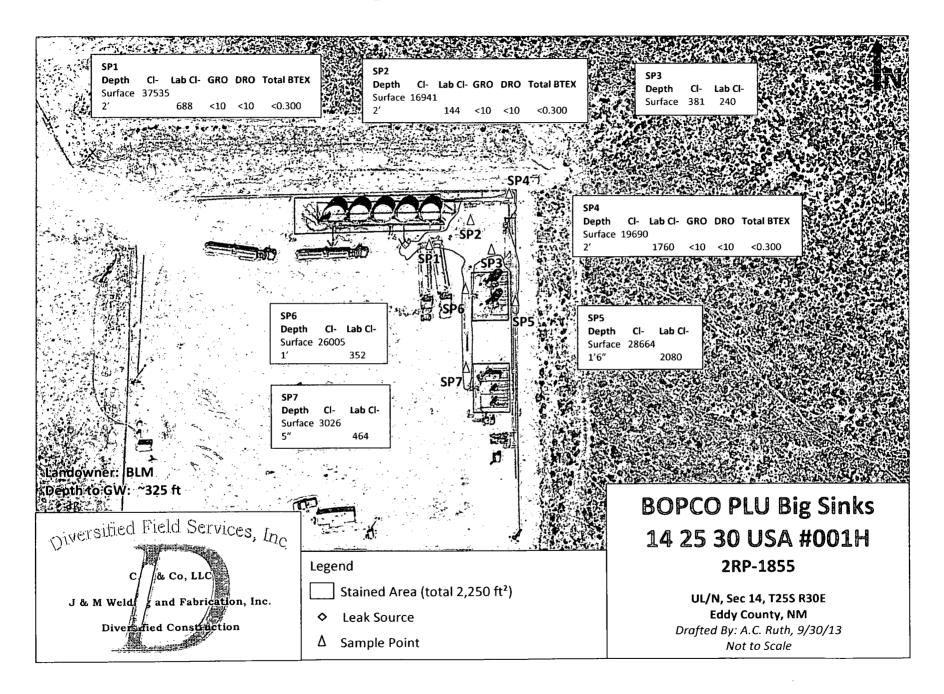
On August 6, 2013 DFSI personnel collected soil samples from the site, simultaneously with excavation activities (Figure). The samples were field screened for chloride. SP3 (sample point) field tested at 370 mg/kg, therefore no further excavation was conducted at that sample point. The remaining sample points ranged from 3,026 mg/kg to 37,535 mg/kg. chlorides at surface. Samples were submitted to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX analyses (Appendix IV). DFSI personnel returned again to those points, utilizing a backhoe to collect final samples at 2 feet below ground surface (bgs) at which point chloride decreased to a range of 144 mg/kg to 2080 mg/kg respectively. At SP4 and SP5 chlorides were 1760 mg/kg and 2080 mg/kg respectively. Due to the fact that these sample points were located below flow lines the NMOCD gave allowance for the elevated chloride levels at these points.

ZH Services, Inc. excavated the site 5 "to 2 feet bgs. Impacted soils were removed to a NMOCD approved disposal facility. On October 04,2013 NMOCD granted permission for the site to be backfilled with caliche. The site was bladed and leveled. Photographs of site activities can be viewed in Appendix II.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater within two miles of the site is approximately 325 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining; Bopco respectfully requests the closure of the regulatory file for the site.

Site Diagram with Sample Data



Appendix I

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INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised August 8, 2011 Copy to appropriate District Office in

Form C-141

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

I220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505													
Release Notification and Corrective Action													
nJM	N 132	:34494	177	•		1. OPEF	RATOR		X Initi	al Report		Final Report	
	ompany: B	OPCO, L.P.	24			Contact: Joo	dy Walters						
the second se				bad, N.M. 8826	0		No.575-887-73						
Facility Nai	me: PLU E	Big Sinks 14-	-25-30 0	SA Battery		Facility: Ty	pe Exploration :	and Pro	duction				
Surface Ow	ner: Feder	al		Mineral (Owner	: Federal		API No. 30-015-39508					
				LOC	ATIC	ON OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/V	West Line	County			
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By Whom? J						Date and H	lour: 8/1/2013, 6:	30nm	· ·	·			
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			Yes X	. No									
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water tanks.	He had pull	ed water level	down be	low load line and	discon	nected the hose	e leaving location.	He for	gotten to cl	ose the valv	e on the	tank about	
standing fluid	d.	uck arrived of	n location	to haul another lo	oad or j	broduced water	. This driver close	ed the le	aking valv	e and recove	ered the	rree	
_													
Describe Are	a Affected	and Cleanup A	Action Ta	ken.* Approxima	tely 74	00 sq.ft. of the	tank battery pad	was affe	cted by the	release. The	e free sta	inding fluid	
was recovered	u. The spin	area will be r	emediated	l in accordance to	the inf	VIUCD and BL	M guidelines.						
I hereby certi	fy that the i	nformation gi	ven above	e is true and comp	olete to	the best of my	knowledge and u	ndersta	nd that pur	suant to NM	OCD ru	les and	
regulations al	I operators	are required to	o report a	nd/or file certain i	release	notifications a	nd perform correct	tive act	ions for rel	eases which	may end	danger	
should their o	perations h	ave failed to a	idequately	ce of a C-141 rep investigate and r	remedia	ite contaminati	on that pose a thr	eat to gi	ound wate	r, surface wa	ater, hun	han health	
or the enviror federal, state,	nment. In a	ddition, NMO	CD accept	ptance of a C-141	report	does not reliev	e the operator of	responsi	ibility for c	ompliance v	vith any	other	
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Printed Name	: Tony Sa	oie					Environmental S		ned By	phily 1	S LART	dese	
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						Sept	ember 2	2,2	2015			() / /	
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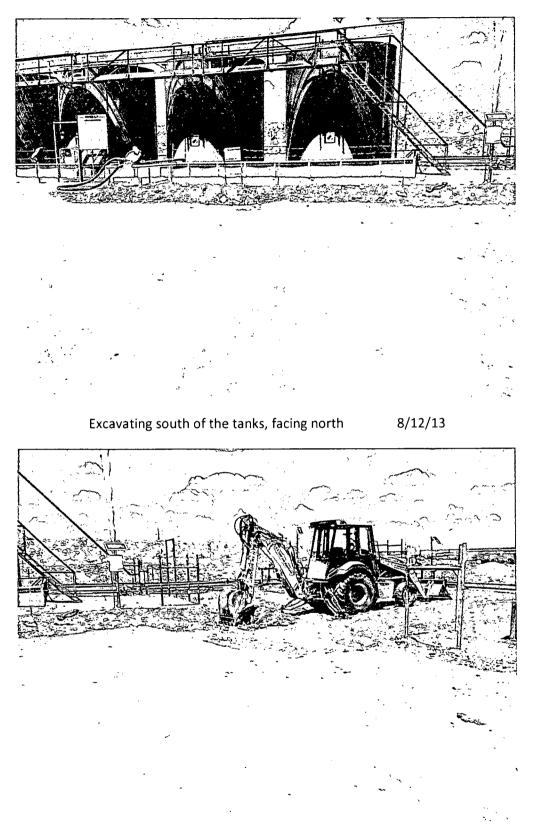
Appendix II

SITE PHOTOGRAPHS

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

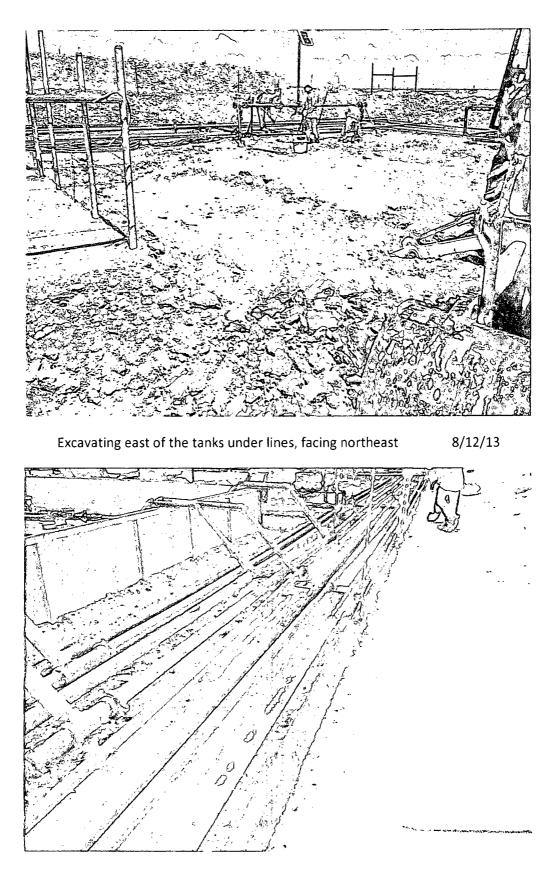
BOPCO PLU Big Sinks 14 25 30 USA #001H

Unit Letter N, Section 14, T25S R30E

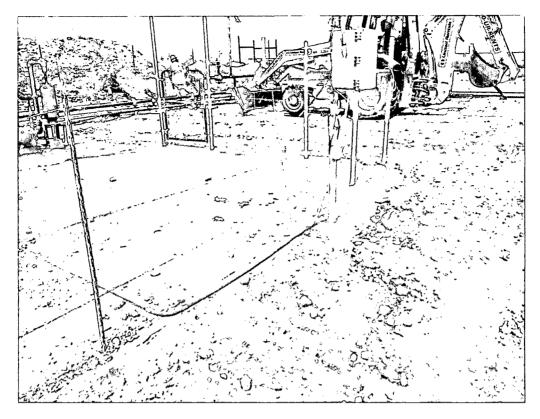


Excavating southeast of the tanks, facing northeast

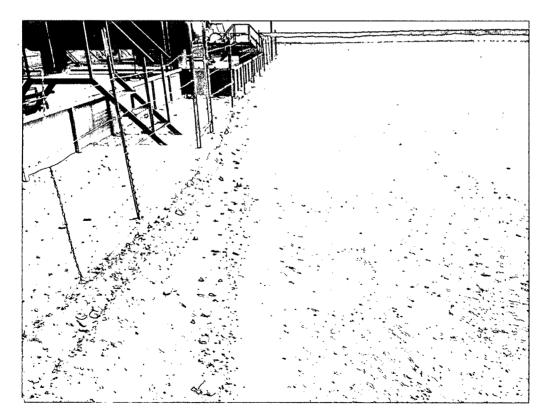
8/12/13



Excavated 1 ft under lines east of the treaters, facing north 8/8/2013



Site blading at completion east of treaters 08/13/13



Site at completion 08/13/13

Appendix III

GROUNDWATER DATA

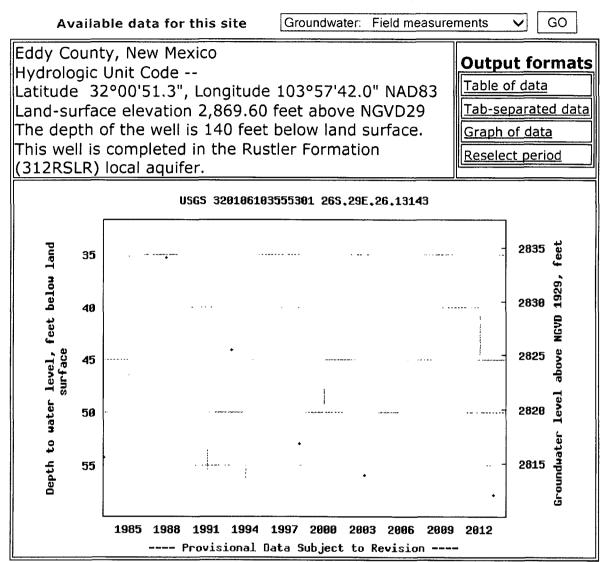
Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

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DEPTH TO GROUNDWATER

	BOPCO F	PLU Big	Sinks 14 2	5 3(0 USA #0	01H	
UL:	<u>N</u>	Sec:	14	T:	255	R:	30E
Groundwa	ater Depth:		~325			ft.	
 NM Office of the = U.S. Geological S = Site Location 		well)	NMOC	D GV	V trend map	- 325 to 35	0 ft bgs Date: 8/4/13 By: Amy Ruth
4' USGS PRO	24S 29E		86' 3APartner S O 24S 30Ę STK 400'		245 м sтк		
60' TK	& WCB STK 255 29E 30' JN STK	AGC DOM	25S 30È		255 390' ВЛТ	Г STK	
	© 78' MBB ST 75' MBB ST 26S 29E	<	• 173' EPNG 184' EPNG 200' BLM 265 30E 180' Grace Oil PRO/D	o e	о 300' вј Di 26S	OM/MUL	35' MRM DOM 292' BJT STK 292' BJT STK

USGS 320106103555301 26S.29E.26.13143





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		Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
<u>C 00349</u>	С	CUB	ED		1	3	18	24S	29E	591401	3564773* 🏹	2734		
<u>C 00381</u>	С	С	ED	3	2	3	07	24S	29E	591682	3566297* 🏹	2797		
C 00463		С	ED	4	4	4	17	24S	29E	594332	3564282* 5%	260	4	256
C 00856			ED	1	2	4	30	24S	29E	592538	3561644* 🌱	380		
C 00857			ED	3	1	4	30	24S	29E	592135	ځځ 3561440*	306		
<u>C 00862</u>			ED	1	2	4	30	24S	29E	592538	3561644* 🎸	155		
C 00863			ED	3	3	1	16	24S	29E	594524	3565091* <7	220		
C 00863 CLW199506	0		ED	3	3	1	16	24S	29E	594524	لايخ 3565091*	220		
<u>C 02713</u>		С	ED	4	4	1	16	24S	29E	591633	3565944 <ح ين	230	18	212
											Average Depth	o Water:	11 f	eet
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							•	-		•				· •· •·

Record Count: 9

PLSS Search:

Township: 24S Range: 29E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced	i		
				and no longer serves this file	e, (quarters are 1=N	W 2=NE 3=SW 4	I=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are sma	llest to largest)	NAD83 UTM in meters)
	Sub				qqq		
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 S	Sec Tws Rng	X Y
C 00463	C PRO	0 U.S. GEOLOGICAL SURVEY	ED <u>C 00463</u>		Shallow 4 4 4	17 24S 29E	594332 3564282* 🎝
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Record Count: 1

POD Search:

POD Number: C 00463

Sorted by: File Number

*UTM location was derived from PLSS - see Help



(with Ownership Information)

(R=POD has been replaced

(acre ft per annum)						and no longer serves this file, C=the file is closed)	e, (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83						UTM in meters)	
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<u>C 03360</u>	С	PRO	0 REEF EXPLORATION	EÐ	<u>C 02713</u>		Shallov	44	1 16	24\$	29E	591633	3565944 🏎	
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Record Count: 2

POD Search:

POD Number: C 02713

Usage Filter:

Use: All Usages

Sorted by: File Number



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C 02108	ED	1	3	08	24S	30E	602702	3566487* 🖓	200	186	14
C 02109	ED	12	4	19	24S	30E	602130	3563412	130	150	-20
C 02110	ED	4	3	23	24S	30E	608036	3562950* 🖓	600	400	200
C 02780	ED	23	2	23	24S	30E	608535	3563857* 🏹	505		
<u>C 02781</u>	ED	43	2	23	24S	30E	608535	3563657* لحزيمه	624		
C 02782	ED	43	2	23	24S	30E	608535	3563657* 🛵	808		
C 03558 POD1	C ED	12	2	25	24S	30E	610442	3562615 47	50		
C 03558 POD2	C ED	12	2	25	24S	30E	610442	3562615 🎝	50		
C 03558 POD3	C ED	12	2	25	24S	30E	610442	3562615 Ly	50		
C 03558 POD4	C ED	12	2	25	24S	30E	610442	3562615 🥪	50		
C 03558 POD5	C ED	12	2	25	24S	30E	610442	3562615 🦕	50		
								Average Depth to	Water:	245 f	eet
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PLSS Search:

Township: 24S

Range: 30E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

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	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (,
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
C 02108	STK	3 A PARTNERSHIP M&M CATTLE CO	ED <u>C 02108</u>		1 3 08 24S 30E	602702 3566487*

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Record Count: 1

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POD Search:

POD Number: C 02108

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Sorted by: File Number

*UTM location was derived from PLSS - see Help

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

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(with Ownership Information)

	(acre f	t per annum)			(R=POD has been replaced and no longer serves this file, C=the file is closed)		=NW 2≠NE 3=SW 4 nallest to largest) (-	(in meters)
	Sub						• • •		in meters)
WR File Nbr	basin Use Div	ersion Owner	Count	y POD Number	Code Grant		Sec Tws Rng	x	Y
C 02109	STK	3 TYSON MAHAFFEY	ED	<u>C 02109</u>		124	19 24S 30E	602130	3563412 457
<u>C 03616</u>	C PRO	0 CONCHO OIL & GAS	ED	C 02109		124	19 24S 30E	602130	3563412 🎝
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Record Count: 2

POD Search:

POD Number: C 02109

Sorted by: File Number

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1 1

New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

				(R=POD has been replaced				
				and no longer serves this file,	(quarters are 1:	=NW 2=NE 3=SW	4=SE)	
	(acre ft	per annum)		C=the file is closed)	(quarters are sr	nallest to largest)	(NAD83 UTM	/ in meters)
	Sub				999			
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<u>C 02110</u>	STK	3 CLARENCE W. MCDONALD	ED <u>C 02110</u>		43	23 24S 30E	608036	3562950*
the stand state and the set			بعد به به نمی هم می	1 A.			• • • • • •	-

Record Count: 1

POD Search:

POD Number: C 02110

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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

8/4/13 4:55 PM



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(qua					IE 3=SV largest)	,	3 UTM in me	eters)		(In feet)
	POD Sub-		QQ	0							Donth	Donth	Water
POD Number	Code basin (County				Tws	Rng	X	Y				Column
<u>C 02405</u>	С	ED	4	1	02	24S	31E	617690	3568631*	59	275	160	1 15
<u>C 02440</u>	С	ED	2	3	10	24S	31E	616103	3566599*	57	350		
C 02460	С	ED		3	02	24S	31E	617496	3568022*	578	320		
C 02460 POD2	С	ED		3	02	24S	31E	617496	3568022*	57	320		
<u>C 02464</u>	С	ED	34	1	02	24S	31E	617589	3568530*	57	320	205	115
<u>C 02661</u>		ED	33	1	04	24S	31E	613969	3568485*	57	708		
C 02783	CUB	ED	33	1	04	24S	31E	613911	3568461	41	708		
C 02783 POD2	С	ED	33	1	04	24S	31E	613911	3568461	57	672		
C 02784	С	ED	42	4	04	24S	31E	613911	3568461	57	584		
C 02785		ED	33	1	04	24S	31E	613969	3568485*	57	692		
									Average De	epth to	Water:	182 f	eet
									Mir	nimun	n Depth:	160 f	eet
									Ma	kimun	Depth:	205 f	eet
Record Count: 10			~~ .~							•			ndar selar tarihi

PLSS Search:

Township: 24S

Range: 31E

*UTM location was derived from PLSS - see Help



(P-POD has been realized

(with Ownership Information)

	(acr	e ft per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)	• •				4=SE) (NAD83 UTN	l in meters)
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<u>C 00225</u> A	IRR	8.4 GREGORY ROCKHOUSE RANCH	ED <u>C 02405</u>		Shallow	41	02 2	4S 31E	617690	3568631* 🎝
C 01246 AO	IRR	47.82 CATHLEEN MC INTIRE	ED C 02405		Shallow	41	02 2	4S 31E	617690	3568631° 🐉
C 02405	C PRO	0 TEXACO EXPLORATION & PROD. IND	ED <u>C 02405</u>		Shallow	4 1	02 2	4S 31E	617690	3568631* Ž _ý ;
C 02452	C PRO	0 TEXACO EXPLORATION & PROD INC.	ED <u>C 02405</u>		Shallow	41	02 2	4S 31E	617690	3568631* 🕁
C 02576	C PRO	0 SONAT EXPLORATION COMPANY	ED <u>C 02405</u>		Shallow	4 1	02 2	4S 31E	617690	3568631* 🏹
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Record Count: 5

POD Search:

POD Number: C 02405

Sorted by: File Number

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	1=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) ((NAD83 UTM in meters)
	Sub				999	·
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 02464</u>	C PRO	0 COMMISSIONER OF PUBLIC LANDS	ED <u>C 02464</u>		Shallow 3 4 1 02 24S 31E	617589 3568530* نوب
		~ · ·			المعر والمعاقبة والمالية المراجع	and the contract

Record Count: 1

POD Search:

POD Number: C 02464

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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

8/4/13 5:06 PM



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	(qua						IE 3=SW	,	3 UTM in meters)		(In feet	:)
POD Number	POD Sub- Code basin	County		Q 16	-	Sec	Tws	Rna	x	Υ	•	•	Water Column
<u>C 01337</u>	С	ED		2			25S	29E	591926	3552642* 457	180	30	150
C 01880	С	ED	3	3	2	06	25S	29E	592161	3558605* 🖅	85	40	45
<u>C 02371</u>	С	ED		2	3	15	25S	29E	596741	3555106* 453	200	60	140
C 02459	С	ED	4	4	1	02	25S	29E	598422	3558663* 🏹	150		
C 02518	С	ED		3	4	08	25S	29E	593895	3556300* 🖅	462		
C_02680	С	ED		2	3	15	25S	29E	596741	3555106* 🏹	200		
RA 07162 EXP2		ED	1	3	1	10	25S	29E	596214	3557222* 🎲	55	40	15
										Average Depth to	Water:	42 f	eet
										Minimun	n Depth:	30 f	eet
										Maximun	Depth:	60 f	eet
Record Count: 7	• · •		•					-		*	···· ·		

PLSS Search:

Township: 25S

Range: 29E

*UTM location was derived from PLSS - see Help

_	Binning Prime Car		ew Mexico Office e & Inactive		0	
_		(acre ft per annum)		(R=POD has been replaced	(quarters are 1=NW 2=NE 3=SW 4 (quarters are smallest to largest)	
N	WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	qqq Source 64164 Sec Tws Rng	х ү
<u>C</u>	<u>C 01337</u>	C STK 3 JAMES NYMEYER	ED <u>C 01337</u>		Shallow 2 1 30 25S 29E	591926 3552642
<u>R</u>	Record Count: POD Searc POD Nu		► · · • •			

*UTM location was derived from PLSS - see Help

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т <u>ге</u> 8 . . .

	New N ater Co					State El Depth	0	
(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)		quarters are quarters are			'	- 3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin Cor	Q Q Q unty 64 16 4	-	Rng	X	Y	•	Depth Water Water Column
C 01379	C E		10 258				400	an a
						Average Depth to	Water:	
						Minimum	Depth:	
						Maximum	Depth:	
Record Count: 1								
PLSS Search:								

Township: 25S Range: 30E

*UTM location was derived from PLSS - see Help



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)					=SW 4=SE) est) (NAD83 U	TM in meters)	(In feet)
	POD Sub-	QQ	Q			De	epth Depth Water
POD Number	Code basin Cour	nty 64 16	6 4 Sec	: Tws Rn	g X	Y	Well Water Column
<u>C 02250</u>	ED) 31	4 21	258 31E	614912 35	553620* 35%	400 390 10
<u>C 02568</u>	ED	43	1 01	25S 31E	619103 35	558892* 🎲 🛛 10	025
<u>C 02569</u>	ED) 44	2 02	25S 31E	618699 38	558891* 2 ₅ 9 10	16
<u>C 02570</u>	ED	9 4 2	4 02	25S 31E	618704 3	558489* 5% 8	395
<u>C 02571</u>	ED	0 4 1	2 02	25S 31E	618292 35	559294* 🎲 🛛 8	360
<u>C 02572</u>	ED	9 4 2	2 02	25S 31E	618695 35	559294* 🎝 🛛 8	352
<u>C 02573</u>	ED) 14	2 02	25S 31E	618499 35	مرّية *59091	
<u>C 02574</u>	ED	0 1 1	2 02	25S 31E	618092 35	559494* 🏹	
					Ave	erage Depth to W	ater: 390 feet
						Minimum De	epth: 390 feet
						Maximum De	epth: 390 feet
Record Count: 8		·					

PLSS Search:

Township: 25S

Range: 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

	(acre fi	; per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)	(quarters are 1=NW 2=NE 3=SW (quarters are smallest to largest)	•
	Sub				q q q	(NADOS O MINIMELEIS)
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	ХY
C 02250	STK	3 BUCK JACKSON TRUST	ED <u>C 02250</u>		3 1 4 21 25S 31E	614912 3553620* Z
ه العد عمر الي	to our new per	a an				· · · · · · · · · · ·

Record Count: 1

POD Search:

POD Number: C 02250

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	d, ' (quar						IE 3=SV largest)		33 UTM in m	eters)		(In feet	()
POD Number	POD Sub- Code basin	County			Q 4	Sec	Tws	Rng	x	Y	,			Water Column
C 01354 X-3	С	ED	2	1	3	23	26S	29E	598323	3543837	327	170		alexycon different, carpony of
C 02038	С	ED	3	2	4	26	26S	29E	599204	3541992*	25°)	200		
C 03507 POD1	С	ED	1	3	3	05	26S	29E	593064	3548313	37	140	78	62
C 03508 POD1	С	ED	1	3	3	05	26S	29E	593063	3548361	- - -	140	75	65
										Average De	epth to	Water:	76 f	eet
										Mir	nimum	Depth:	75 f	eet
										Ma	kimum	Depth:	78 f	eet
Record Count: 4	·	• •	·							••••			er 5 75 85	

PLSS Search:

Township: 26S Range: 29E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	(quarters	are 1=	NW 2=NE 3=SW 4	=SE)	
	(acre fi	t per annum)		C=the file is closed)	(quarters	are sm	allest to largest) (NAD83 UTM	l in meters)
	Sub					9 9 9			
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6	6416 4	Sec Tws Rng	X	Y
C 03507	C STK	3 M. BRAD BENNETT	ED <u>C 03507 POD1</u>		Shallow	133	05 26S 29E	593063	3548313
		• •	· · · · · · · · · · · · · · · · · · ·	na na sa	••				a para tang ang ang

Record Count: 1

POD Search:

POD Number: C 03507 POD1

Sorted by: File Number



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quai						IE 3=SW		3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin (County		Q 16			: Tws	Rng	X	Y	•	•	Watêr Column
<u>C 01360</u>	С	ED	4	3	3	05	26S	30E	602997	3548152 🖓	770	173	597
<u>C 01361</u>		ED	3	4	3	05	26S	30E	603240	3548157	775	184	591
C 02165	С	ED				24	26S	30E	610036	3544121* 🏹	440	180	260
<u>C 03483</u>	С	ED	4	4	4	05	26S	30E	604296	3548251 🎝	700	200	500
										Average Depth to	o Water:	184 f	eet
										Minimun	n Depth:	173 f	eet
										Maximun	n Depth:	200 f	eet
Record Count: 4		• •	•		-	· ·· -	~					- · · -	
PLSS Search:													

Township: 26S

Range: 30E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

	(acre ft	t per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)	e, (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)					
	Sub				q q q					
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y				
<u>C 01360</u>	IND	0 EL PASO NATURAL GAS	ED <u>C 01360</u>		Shallow 4 3 3 05 26S 30E	602996 3548152 😓				
C 03448	C PRO	0 DEVON ENERGY CORP.	ED <u>C 01360</u>		Shallow 4 3 3 05 26S 30E	602996 3548152				
C 03449	C PRO	0 OGX RESOURCES	ED <u>C 01360</u>		Shallow 4 3 3 05 26S 30E	ورية 3548152 602996				
					· · · · · · · · ·					

Record Count: 3

POD Search:

POD Number: C 01360

Sorted by: File Number



(with Ownership Information)

				(R=POD has been replaced		
			and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)			=SE)
	(acre f	t per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)
	Sub				999	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 01361</u>	IND	0 EL PASO NATURAL GAS	ED <u>C 01361</u>		Shallow 3 4 3 05 26S 30E	603240 3548157

Record Count: 1

POD Search:

POD Number: C 01361

Sorted by: File Number

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

	(acre f	t per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)	(quarters are 1= (quarters are sr			M in meters)
	Sub	, ,		,	qqq	•		,
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4	Sec Tws Rn	ng X	Y
C 02165	C PRO	0 GRACE OIL	ED <u>C 02165</u>		Shallow	24 26S 30	E 610036	3544121* 🤪
Record Count:	: 1				ه ۱۰ ۲۰ تر ۱۹۶۰ مرکز می اور ا	يعبد تەرى		<u></u>

POD Search:

POD Number: C 02165

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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8/4/13 5:32 PM



(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3≃SW 4	=SE)
	(acre ft pe	er annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)
	Sub				999	
WR File Nbr	basin Use Divers	ion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
C 03483		0 BUREAU OF LAND MANAGEMENT	ED <u>C 03483</u>		Shallow 4 4 4 05 26S 30E	604296 3548251 🖓
<u>C 03501</u>	C PRO	0 DEVON ENERGY CO.	ED C 03483		Shallow 4 4 4 05 26S 30E	درية 3548251 604296
C 03502	C PRO	0 DEVON ENERGY CO	ED <u>C 03483</u>		Shallow 4 4 4 05 26S 30E	604296 3548251 💭
C 03503	C PRO	0 DEVON ENERGY CO.	ED <u>C 03483</u>		Shallow 4 4 4 05 26S 30E	604296 3548251 🏹
		· · · · · · · · ·				

Record Count: 4

POD Search:

POD Number: C 03483

Sorted by: File Number



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	d, (quar	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)											
POD Number	POD Sub- Code basin	County			Q 4	Sec			X		•	•	Water Column	
<u>C 01777</u>	С	ED				80	26S	31E	613245	3547409* نمريخ	325	300	25	
C 02090		ED		4	4	01	26S	31E	620329	3548533* 🦾	350	335	15	
<u>C 02248</u>		ED	1	2	3	08	26S	31E	612942	3547316* 🦓	300	292	8	
C 02249		ED	1	2	3	08	26S	31E	612942	3547316* 🎝	300	292	8	
C 03554 POD1	С	ED [°]	2	1	4	01	26S	31E	620077	3549022 🎝	1000			
										Average Depth to	304 f	eet		
										Minimum	292 f	eet		
										Maximum	335 feet			

PLSS Search:

Township: 26S Range: 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

	(acre f	t per annum)			(R=POD has been replaced and no longer serves this file, C=the file is closed)	er serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)								
WR File Nbr	Sub basin Use Div	. ,	County	/ POD Number	Code Grant	q q q Source 6416 4		u ,	x	v				
<u>C 01777</u>	C DOL	3 BUCK JACKSON		<u>C 01777</u>		Shallow		26S 31E	613245	3547409* 🏹				
		a	,		· · · · · · · · · · · · · · · · · · ·									

Record Count: 1

POD Search:

POD Number: C 01777

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

	(acre ft	per annum)			(R=POD has been replaced and no longer serves this file, C=the file is closed)	••	=NW 2=NE 3=SW mallest to largest)	,	A in meters)
	Sub					qqq			
WR File Nbr	basin Use Dive	rsion Owner	Coun	ty POD Number	Code Grant	Source 6416 4	Sec Tws Rng	х	Y
C 02090	DOM	3 MALCOM R. MADERA	ED	C 02090		44	01 26S 31E	620329	3548533* 🎸
41 48 W	100 BAR ARE 100 .0	الم يعني عند الم			······································		···· ··		

Record Count: 1

POD Search:

POD Number: C 02090

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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8/4/13 5:42 PM



(with Ownership Information)

	(acre ft p	per annum)			(R=POD has been replaced and no longer serves this file, C=the file is closed)		=NW 2=NE 3=SW mallest to largest)		1 in meters)
	Sub					qqq			
WR File Nbr	basin Use Diver	rsion Owner	Count	y POD Number	Code Grant	Source 6416 4	Sec Tws Rng	x	Y
C 02248	STK	3 BUCK JACKSON TRUST	ED	C 02248		123	08 26S 31E	612942	3547316* 🏹
57 and 186 are a		and the set of the set	×		14 W 100 10 1	NY			
Record Count	<u>:</u> 1								
POD Sear	rch:								
POD N	umber: C 02248								

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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8/4/13 5:43 PM



(with Ownership Information)

	(acre f	t per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)	(quarters are 1=NW 2=NE 3=SW 4 (quarters are smallest to largest) (
	Sub				999	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
C 02249	STK	3 BUCK JACKSON TRUST	ED <u>C 02249</u>		1 2 3 08 26S 31E	612942 3547316* 🛵
• • •		مع وي الله الله وي الله الله الله الله الله الله الله الل	م الالتيانية المراجع المراجع المراجع المراجع الم	a the second of the second	د این پر میں ۲۸۰۰ میں وروان در میں ا	

Record Count: 1

POD Search:

POD Number: C 02249

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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8/4/13 5:44 PM

Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



August 15, 2013

AMY RUTH DIVERSIFIED FIELD SERVICES, INC. P. O. BOX 5966 HOBBS, NM 88241

RE: PLU BIG SINKS 14 25 30 USA #001H

Enclosed are the results of analyses for samples received by the laboratory on 08/14/13 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	08/14/2013	Sampling Date:	08/06/2013
Reported:	08/15/2013	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 14 25 30 USA #001H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ SURFACE (H301932-01)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/15/2013	ND	400	100	400	0.00	

Sample ID: SP 7 @ 5" (H301932-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/15/2013	ND	400	100	400	0.00	

Sample ID: SP 5 @ 1' 6" (H301932-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/15/2013	ND	400	100	400	0.00	

Sample ID: SP 6 @ 1' (H301932-04)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/15/2013	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

	Samples reported on an as received basis (wet) unless otherwise noted on report
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
***	Insufficient time to reach temperature.
**	Samples not received at proper temperature of 6°C or below.
RPD	Relative Percent Difference
ND	Analyte NOT DETECTED at or above the reporting limit

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 4 of 4



August 29, 2013

AMY RUTH DIVERSIFIED FIELD SERVICES, INC. P. O. BOX 5966 HOBBS, NM 88241

RE: PLU BIG SINKS 14 25 30 USA #001H

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	08/23/2013	Sampling Date:	08/15/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 14 25 30 USA #001H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ 2' (H302037-01)

BTEX 8021B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	16.0 08/29/2013		416	104	400	3.92		
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	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98		
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826		
EXT DRO >C28-C35	<10.0	10.0	08/28/2013	ND						
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	82.4	% 63.6-15	4							

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Kuna

Celey D. Keene, Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	08/23/2013	Sampling Date:	08/15/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 14 25 30 USA #001H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 2' (H302037-02)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEX	<0.300 0.300		08/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6	<u>.</u>					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144 16.0		08/29/2013	ND	416	104	400	3.92	
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	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826	
EXT DRO >C28-C35	<10.0	10.0	08/28/2013	ND					
Surrogate: 1-Chlorooctane	86.3	% 65.2-14	0		-			·	
Surrogate: 1-Chlorooctadecane	88.2	% 63.6-15	4						

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*=Accredited Analyte

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	08/23/2013	Sampling Date:	08/15/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 14 25 30 USA #001H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 4 @ 2' (H302037-03)

BTEX 8021B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050 0.050		08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050 0.050		08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	enes* <0.150 0.		08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEX	<0.300 0.300		08/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6			·····			
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	. % Recovery	True Value QC	RPD	Qualifier
Chloride	1760 16.0		08/29/2013 ND		416	104	400	3.92	
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	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826	
EXT DRO >C28-C35	<10.0	10.0	08/28/2013	ND					
Surrogate: 1-Chlorooctane	91.9	% 65.2-14	0			• •			
Surrogate: 1-Chlorooctadecane	95.2	% 63.6-15	4						

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Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FINAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

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