

**Bratcher, Mike, EMNRD**

---

**From:** Amy Ruth <aruth@diversifiedfsi.com>  
**Sent:** Monday, August 12, 2013 4:15 PM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** BOPCO PLU Big Sinks 14 25 30 USA #001H - Leak Site  
**Attachments:** BOPCO PLU Big Sinks 14 25 30 USA #001H - Field Diagram.pdf; BOPCO PLU Big Sinks 14 25 30 USA #001H - Photo Page.docx.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Mike,

Here is a quick diagram from my notes and some photos of the site. I will call you to discuss the field screens.

Thanks!!

*Amy C. Ruth*

Diversified Field Services, Inc.  
315 S. Leech St.  
Hobbs, NM 88240  
Office: (575)397-6437  
Mobile: (575)390-5454  
Fax: (575)393-2981

*"Nothing will work unless you do." -Maya Angelou*

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

BOPCO

PLU Big Sinks

14

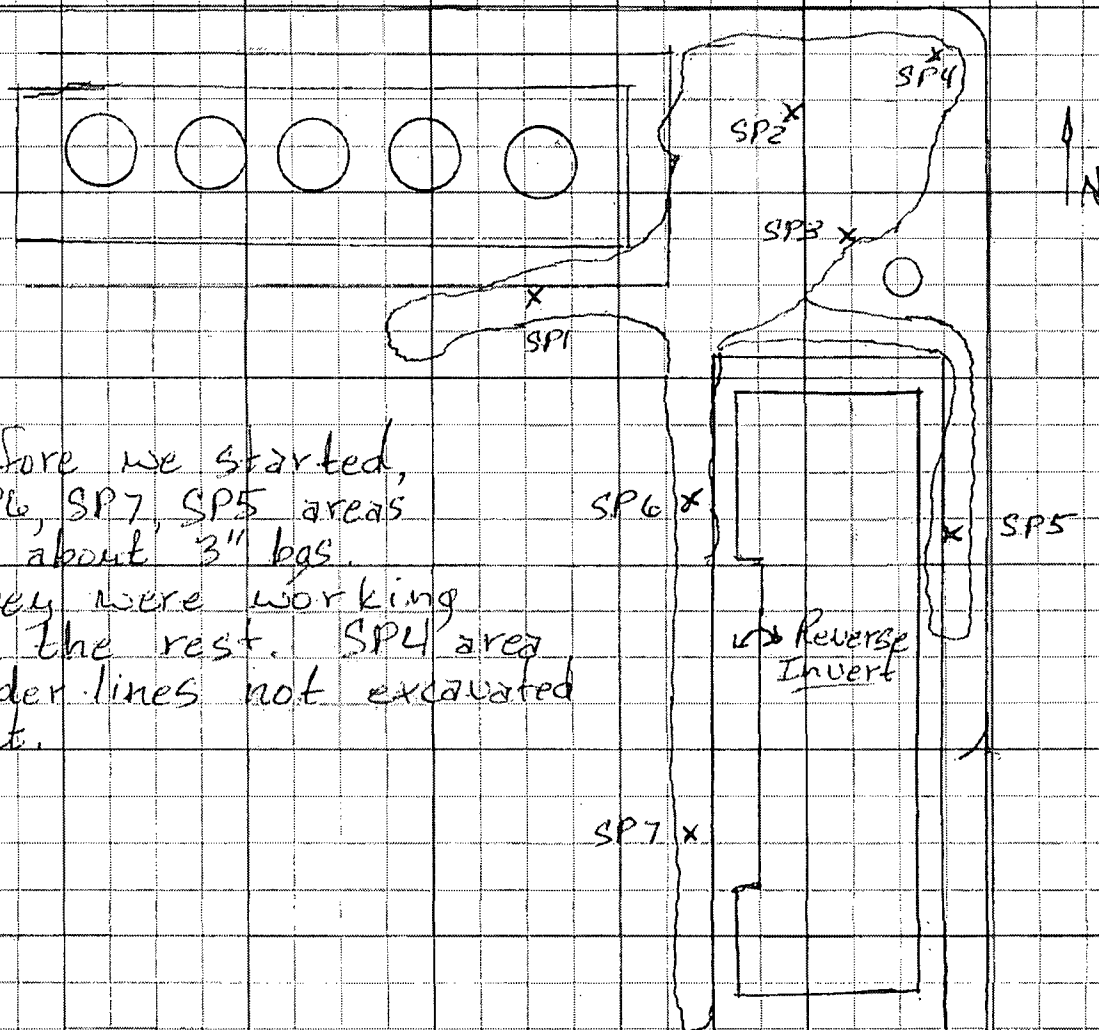
25

30

USA #001 H

8-7-13

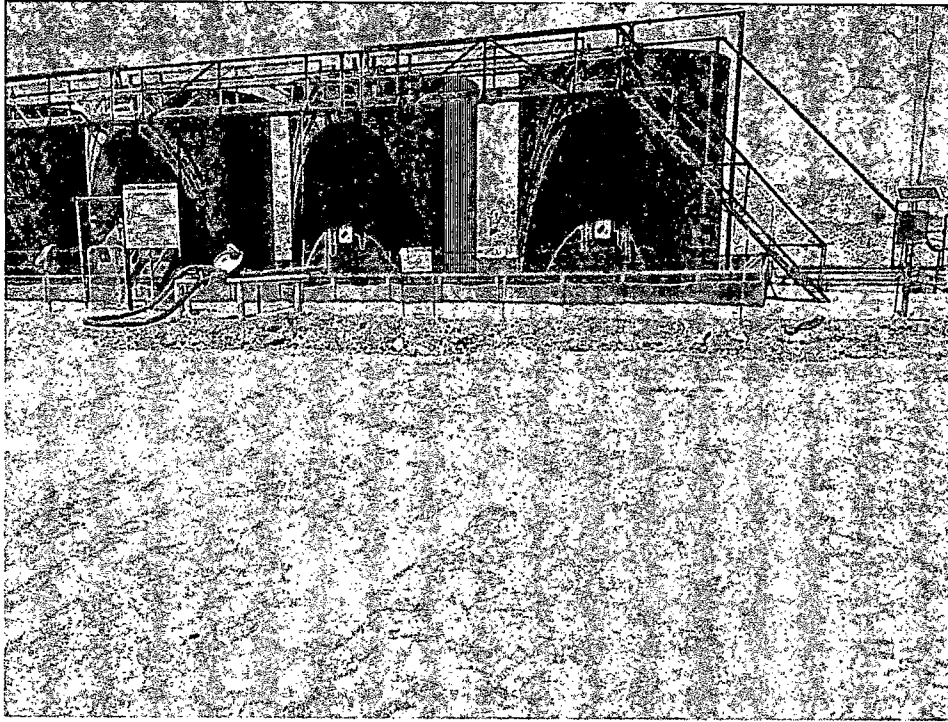
## Site Diagram



Before we started,  
SP6, SP7, SP5 areas  
at about 3" bgs.  
They were working  
on the rest. SP4 area  
under lines not excavated  
yet.

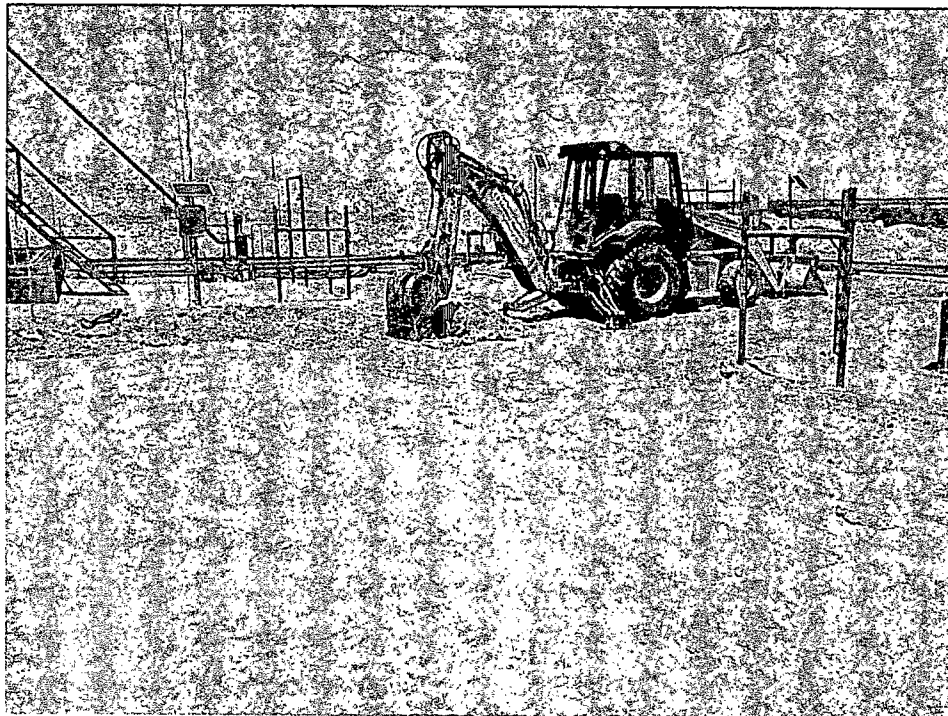
# BOPCO PLU Big Sinks 14 25 30 USA #001H

Unit Letter N, Section 14, T25S R30E



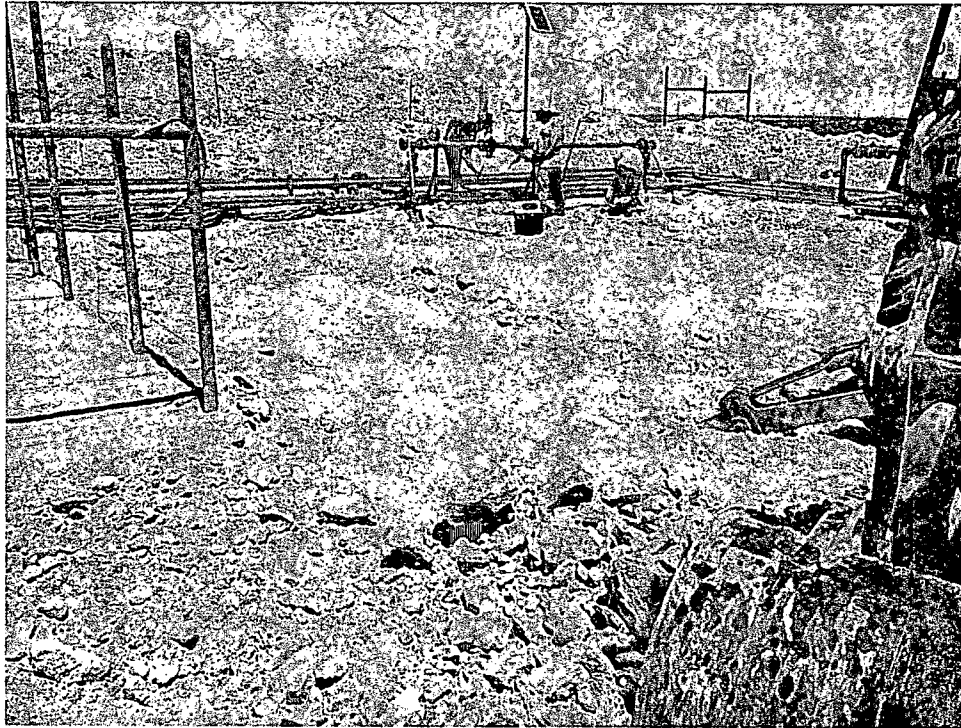
Excavating south of the tanks, facing north

8/12/13



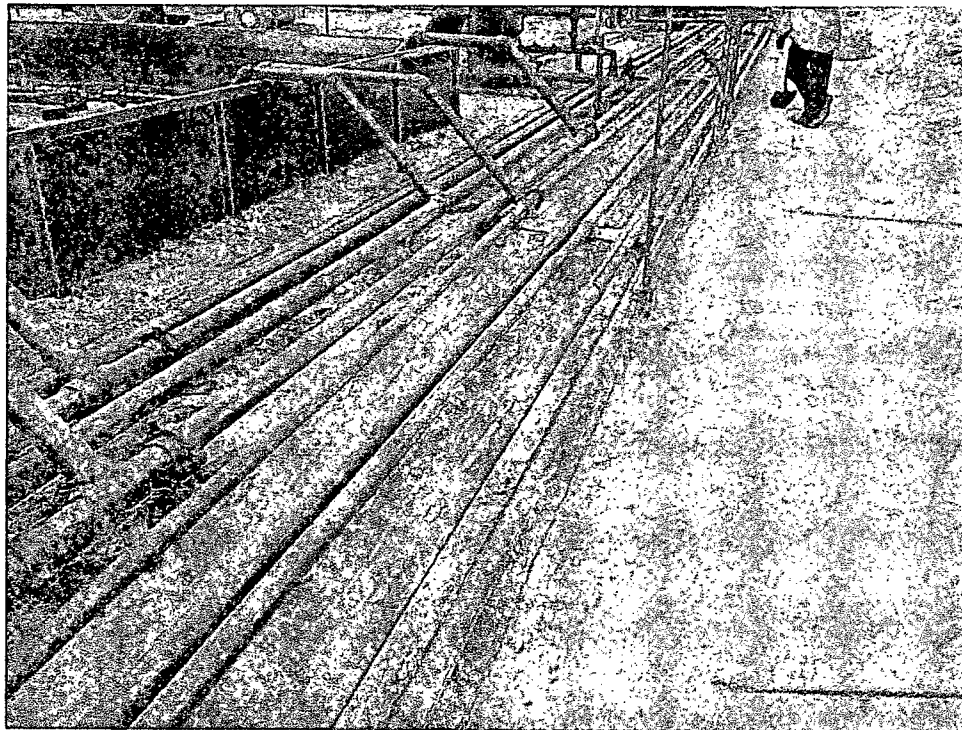
Excavating southeast of the tanks, facing northeast

8/12/13



Excavating east of the tanks under lines, facing northeast

8/12/13



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

8/8/2013

yes, 55h  
at  
yes, 02.11

W-14-25-30E

Thed map - 325-350

SP-2 may be able to get source name

SA-1 500 37.53 ~~53~~ 500 37.53 14,830  
 truck least 1' = 3305

SP-2 16,940 surf  
= 7559  
8919 scratched 3'

OK SP-3 38/0 surf

SP4 19600 surf under lines  
Ht Rock @ 6" 5' = 4802

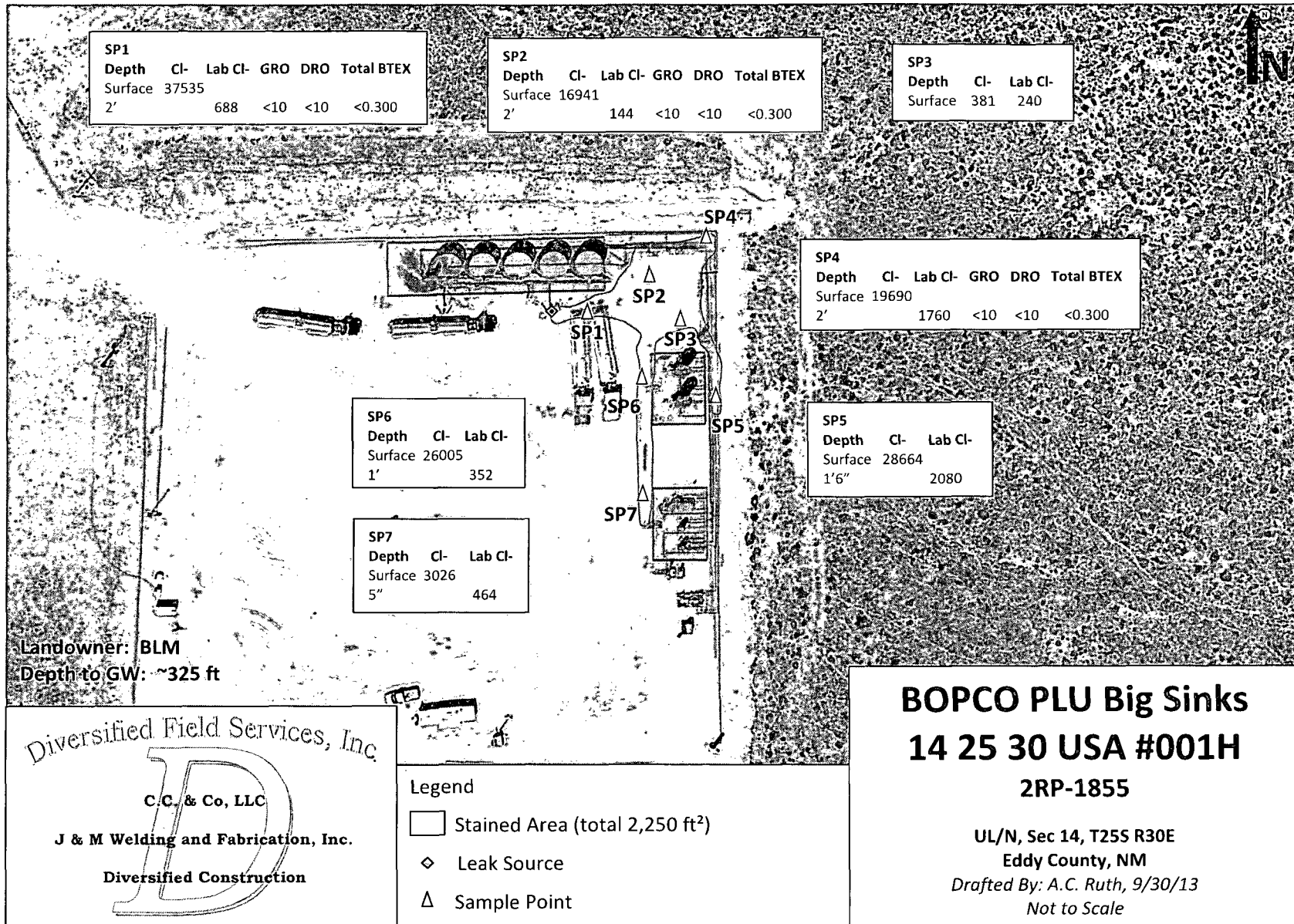
(\*) Mistletoe Sps. twigs - from E side  
bag 28654  
Scraped 3" 6700 acaly 3"  
BQs 5291  
dry to 1" 2381 1 1/2 1600

OK  
546 - first west side of trail  
547 - 26000  
OK 546 + 547 spec to 5" 2000 spec to 1' 519 →

$\frac{1}{2}$  circle =  $\pi$  radian  
area =  $\frac{1}{2} \times \text{radius}^2 \times \theta$

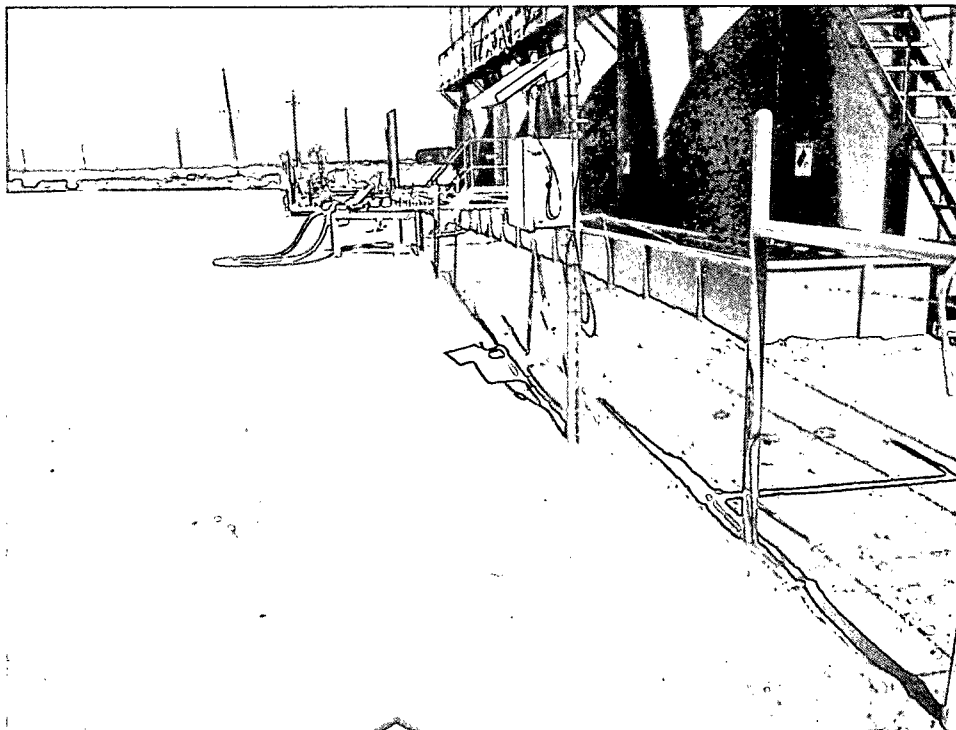
OK SP7 - SGT 3026 SP7 3026  
script 2" more 627  
206 5" 702

# Site Diagram with Sample Data



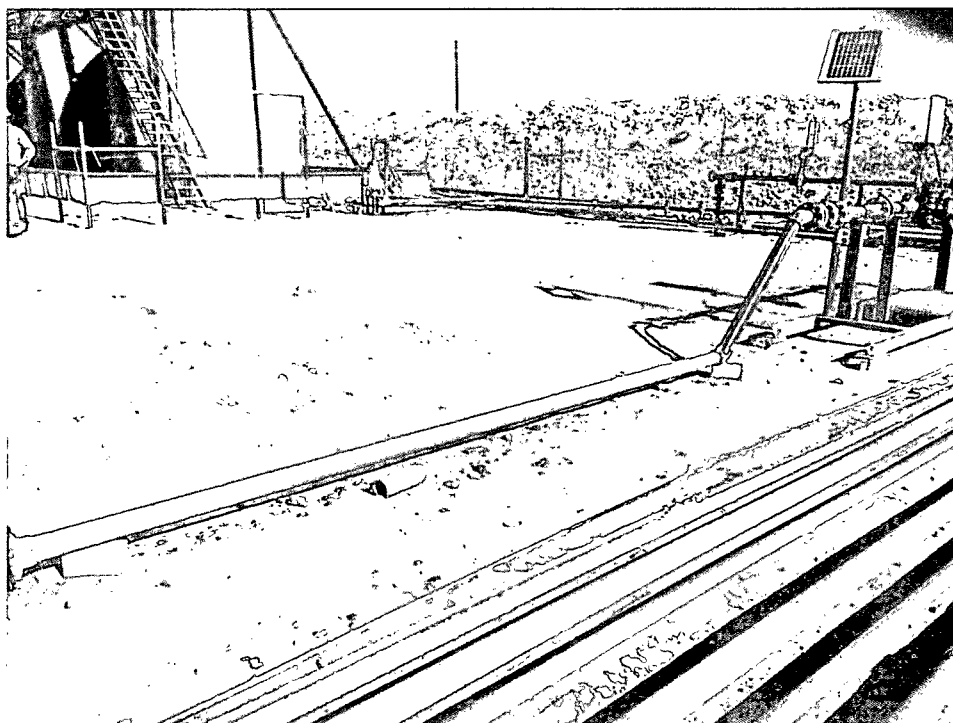
# BOPCO PLU Big Sinks 14 25 30 USA #001H

Unit Letter N, Section 14, T25S R30E



Initial stain south of tanks, facing west

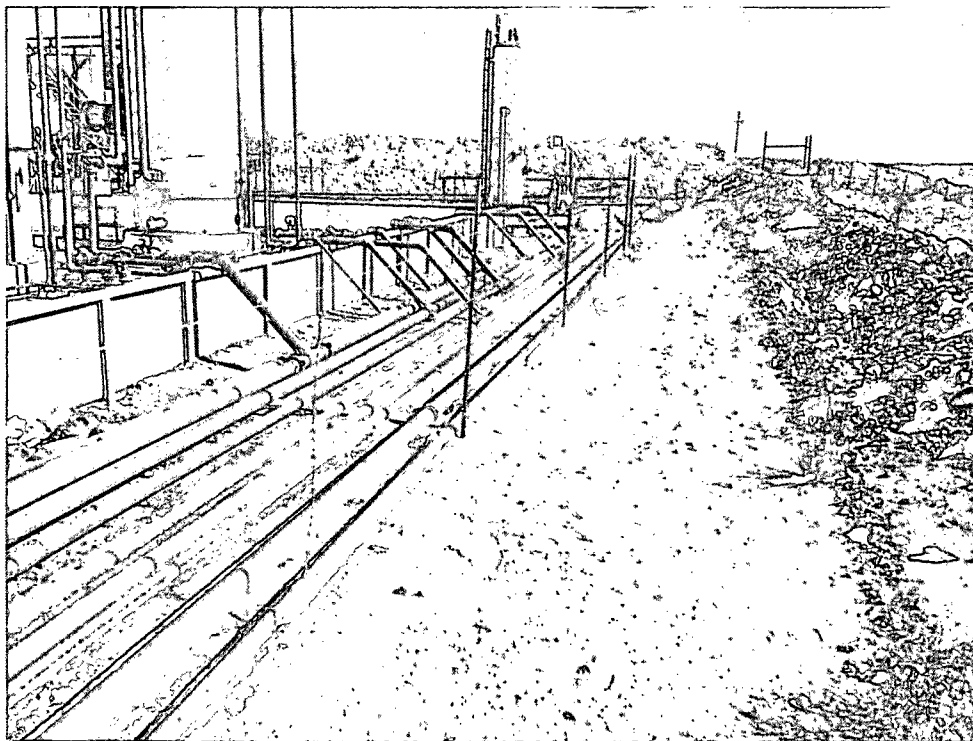
8/6/13



Initial stain northeast corner, facing northwest

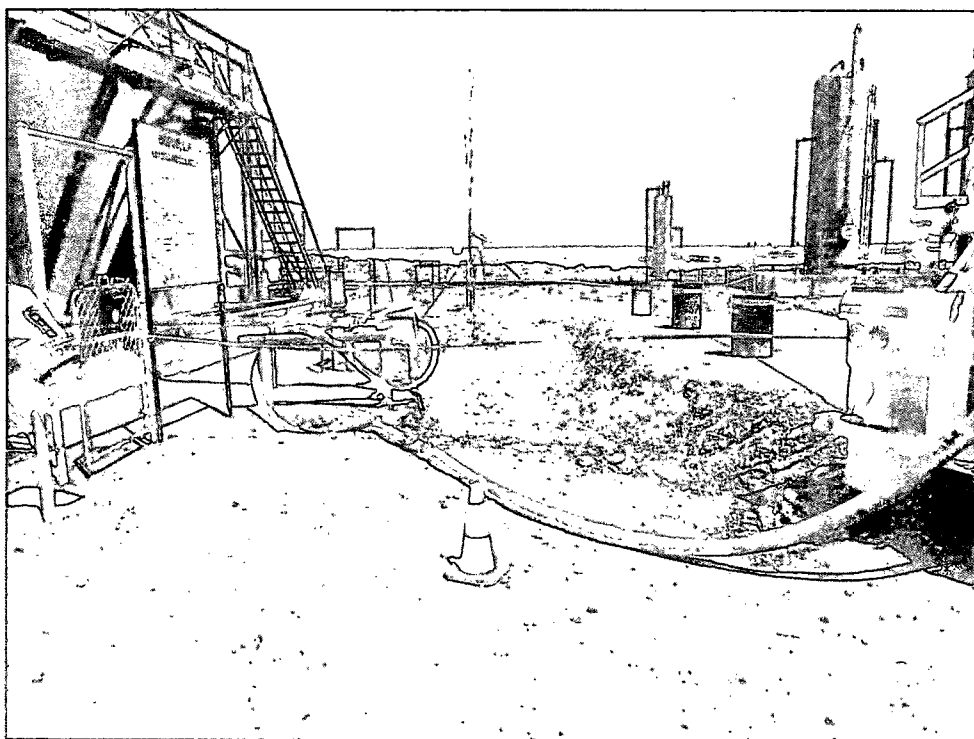
8/6/13





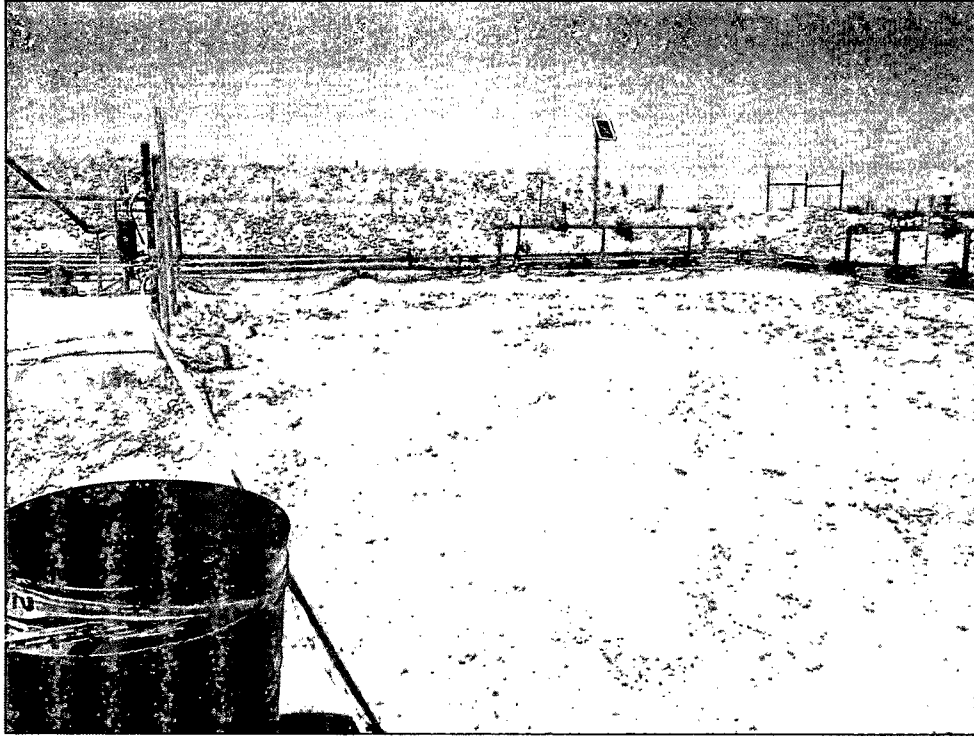
Initial stain east of treaters, facing north

8/6/13



Excavated 2 ft south of tanks, facing east

8/21/2013



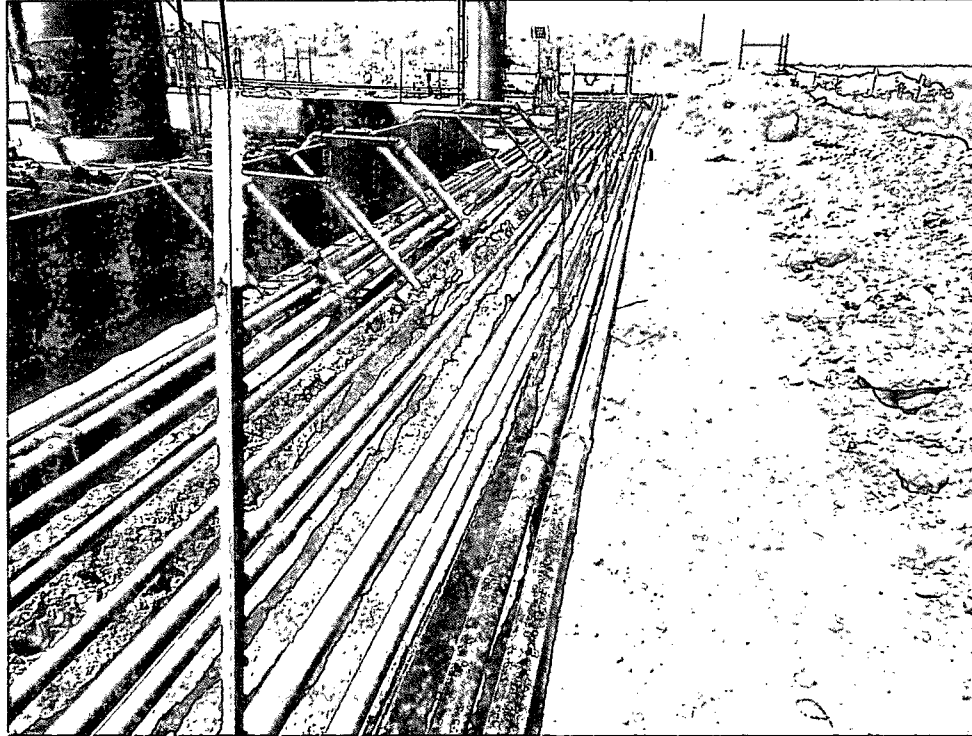
Excavated area in northeast corner 1' to 2', facing north

8/21/13



Excavated area in northeast corner 1' to 2', facing northwest

8/21/13



Excavated area 1'6" east of treaters, facing north

8/21/13



Excavated area 5" to 1' west of treaters, facing south

8/21/13

# DEPTH TO GROUNDWATER

BOPCO PLU Big Sinks 14 25 30 USA #001H

UL:   N        Sec:   14        T:   25S        R:   30E  

Groundwater Depth:                     ~325                     ft.

○ = NM Office of the State Engineer

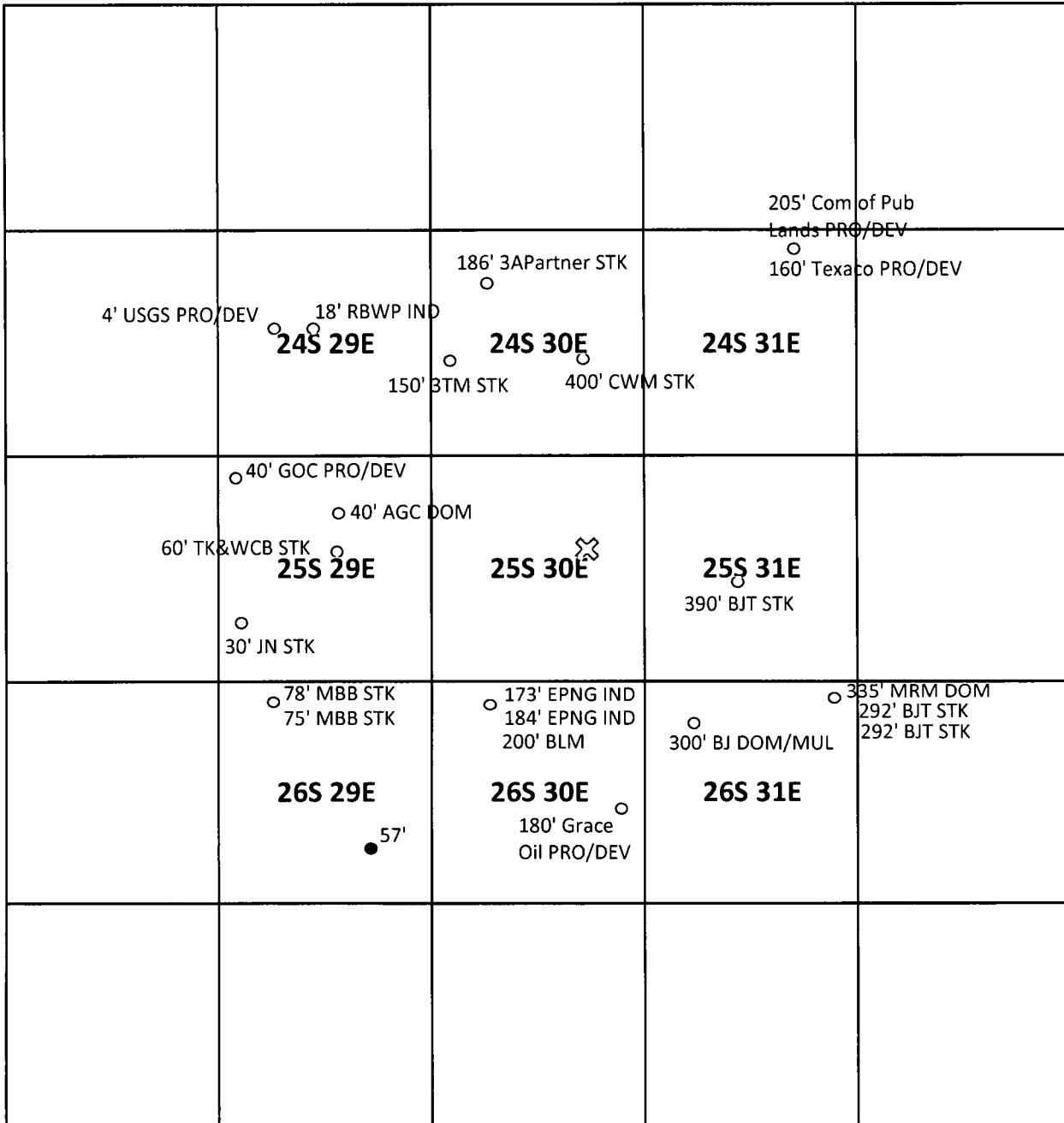
NMOCD GW trend map - 325 to 350 ft bgs

● = U.S. Geological Survey (unknown well)

Date: 8/4/13

✕ = Site Location

By: Amy Ruth



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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

Release Notification and Corrective Action

nJMW 1323449477

I. OPERATOR

X Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Jody Walters
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88260	Telephone: No. 575-887-7329
Facility Name: PLU Big Sinks 14-25-30 USA Battery	Facility: Type Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-39508
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter N	Section 14	Township 25S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.124358 Longitude W 130.853639

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 42bbbs water	Volume Recovered: 38bbbs water
Source of Release: Open valve on tank	Date and Hour of Occurrence: 8/1/2013 time unknown	Date and Hour of Discovery: 8/1/2013, 4:20 pm
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Artesia Office	
By Whom? Jody Walters	Date and Hour: 8/1/2013, 6:30pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse	

RECEIVED  
AUG 16 2013  
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* The ZH Services Inc. vacuum truck operator was pulling a load of produced water from the water tanks. He had pulled water level down below load line and disconnected the hose leaving location. He forgotten to close the valve on the tank about 1.5 hours later another truck arrived on location to haul another load of produced water. This driver closed the leaking valve and recovered the free standing fluid.

Describe Area Affected and Cleanup Action Taken.\* Approximately 7400 sq.ft. of the tank battery pad was affected by the release. The free standing fluid was recovered. The spill area will be remediated in accordance to the NMOCD and BLM guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Tony Savoie		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist: Signed By Mike Benavides	
Title: Waste Management and Remediation Specialist		AUG 22 2013	
E-mail Address: tasavoie@basspet.com		Approval Date: Expiration Date:	
Date: 5/5/2013 Phone: 432-556-8730		Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: September 22, 2013	
		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

2RP-1855

## Bratcher, Mike, EMNRD

---

**From:** Amy Ruth <aruth@diversifiedfsi.com>  
**Sent:** Thursday, October 17, 2013 9:23 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** SJWalters@BassPet.Com; Michael Patterson; Stephen McGhee; jamos@blm.gov  
**Subject:** 2RP-1855 Backfill  
**Attachments:** BOPCO PLU Big Sinks 14 25 30 USA #001H - Site Diagram w Sample Data.pdf; H301932 DIVERSIFIED.pdf; H302037 DIVERSIFIED sp1,2,4.pdf

Hi Mike,

This email is in reference to our meeting with you on Friday morning 10/4/2013 for this BOPCO leak. In our discussion, we presented lab data with a plat of the site, along with a groundwater study of the area. At the conclusion of the meeting, it was decided that BOPCO has permission to backfill the excavation at PLU Big Sinks 14 25 30 USA #001H (2RP-1855). A closure report will be compiled and submitted after backfill of the site is completed. If you have any questions/concerns, please call me at the number below.

Thank you so much for your time and assistance!

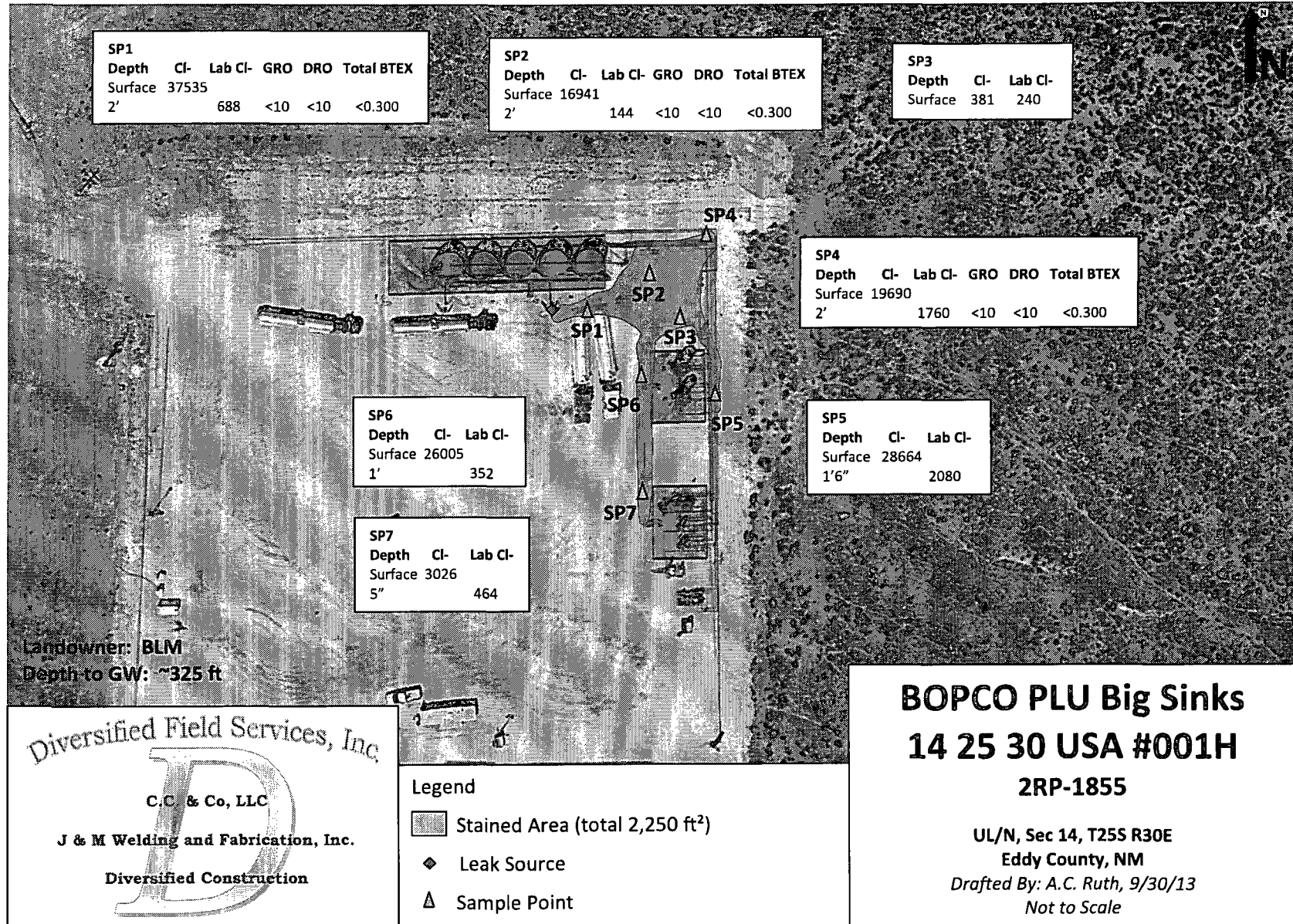
*Amy C. Ruth*

Diversified Field Services, Inc.  
315 S. Leech St.  
Hobbs, NM 88240  
Office: (575)397-6437  
Mobile: (575)390-5454  
Fax: (575)393-2981

*"Nothing will work unless you do." -Maya Angelou*

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

# Site Diagram with Sample Data





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

---

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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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, SM4500CI-B		mg/kg	Analyzed By: AP						
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	Analyzed 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	Analyzed 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	Analyzed 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

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

Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

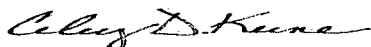
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---

Celey D. Keene, Lab Director/Quality Manager



## Page 4 of 4

[illegible]



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

---

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script, reading "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 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)**

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/29/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed 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					

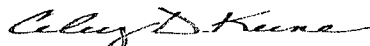
Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 08/23/2013  
 Reported: 08/29/2013  
 Project Name: PLU BIG SINKS 14 25 30 USA #001H  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 08/15/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 08/23/2013  
 Reported: 08/29/2013  
 Project Name: PLU BIG SINKS 14 25 30 USA #001H  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 08/15/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

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

BTX 8021B			mg/kg							
			Analyzed 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 BTX	<0.300	0.300	08/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: CK/						

TPH 8015M		mg/kg		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

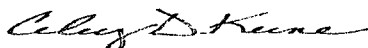
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\* = Accredited Analyte

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



---

Celey D. Keene, Lab Director/Quality Manager








## Page 6 of 6

Company Name: Diversified Field Service, Inc.		BILL TO		ANALYSIS REQUEST																					
Project Manager: Amy Ruth		P.O. #:																							
Address: 315 S. Leech		Company: ZH Services																							
City: Hobbs		Attn: Joel Longoria																							
Phone #: 575-397-6437		Address: 4515 National Parks Hwy																							
Fax #:		City: Carlsbad																							
Project #:		State: NM Zip: 88220																							
Project Name: PLU Big Sinks 1425 3D USA #001 H		Phone #: 575-234-2028																							
Project Location: Malaga NM		Fax #:																							
Sampler Name: Amy Ruth																									
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME											
H302037																									
1	SP1 @ 2'	G	1			✓					✓		8-15-13	1500	✓	✓	✓								
2	SP2 @ 2'	G	1			✓					✓		8-15-13	1515	✓	✓	✓								
3	SP4 @ 2'	G	1			✓					✓		8-15-13	1600	✓	✓	✓								

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 the client for the 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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 8-23-13	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1515				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date:	Received By:	REMARKS:	
Time:				email	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: 	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/> 1.8°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		STWalters@BassPet.Com	
				aruth@diversifiedfsi.com	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54

# DEPTH TO GROUNDWATER

BOPCO PLU Big Sinks 14 25 30 USA #001H

UL:   N        Sec:   14        T:   25S        R:   30E  

Groundwater Depth:                     ~325                     ft.

● = NM Office of the State Engineer

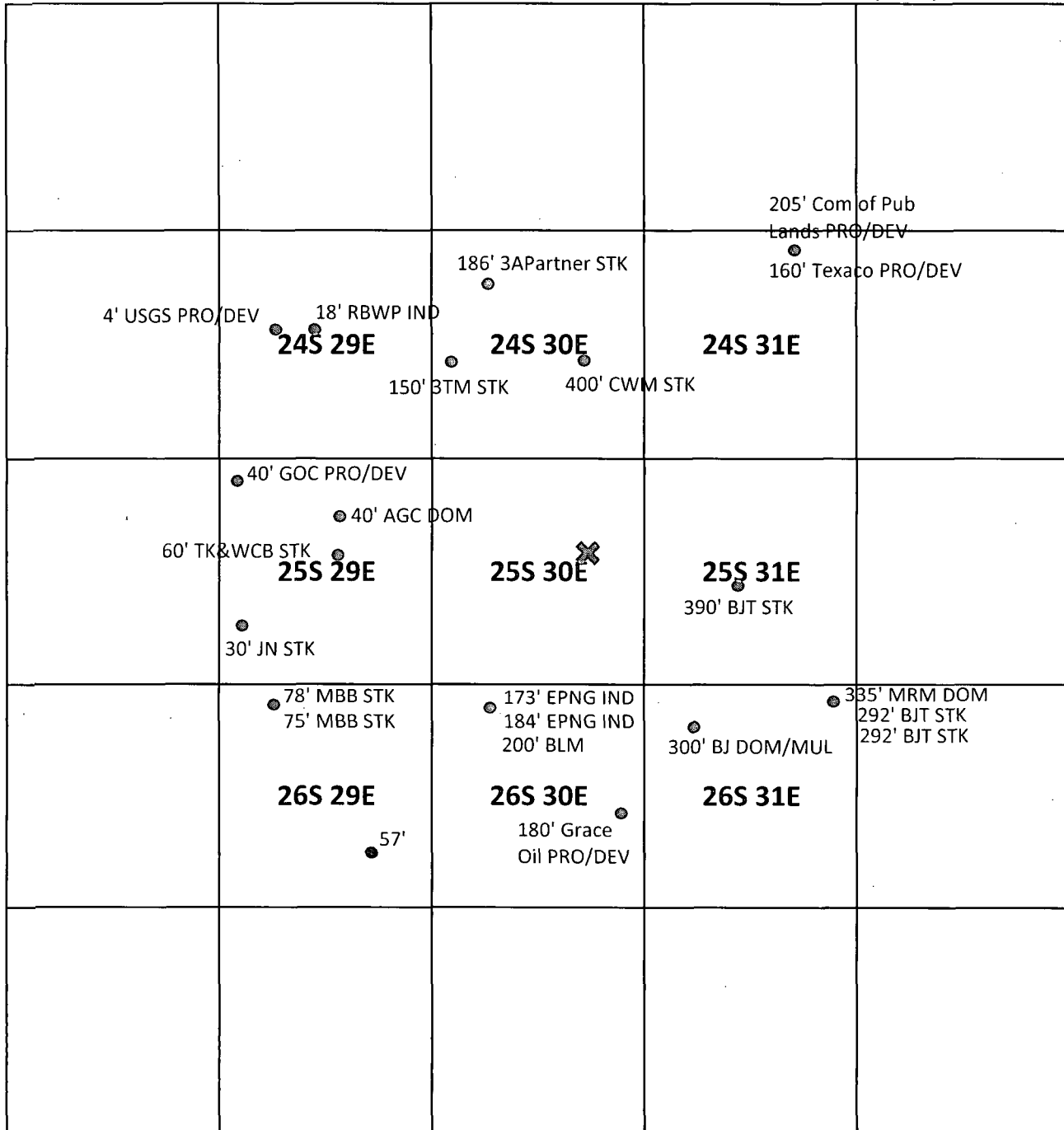
NMOCD GW trend map - 325 to 350 ft bgs

● = U.S. Geological Survey (unknown well)

Date: 8/4/13

✕ = Site Location

By: Amy Ruth



**USGS 320106103555301 26S.29E.26.13143**

Available data for this site

Groundwater: Field measurements



GO

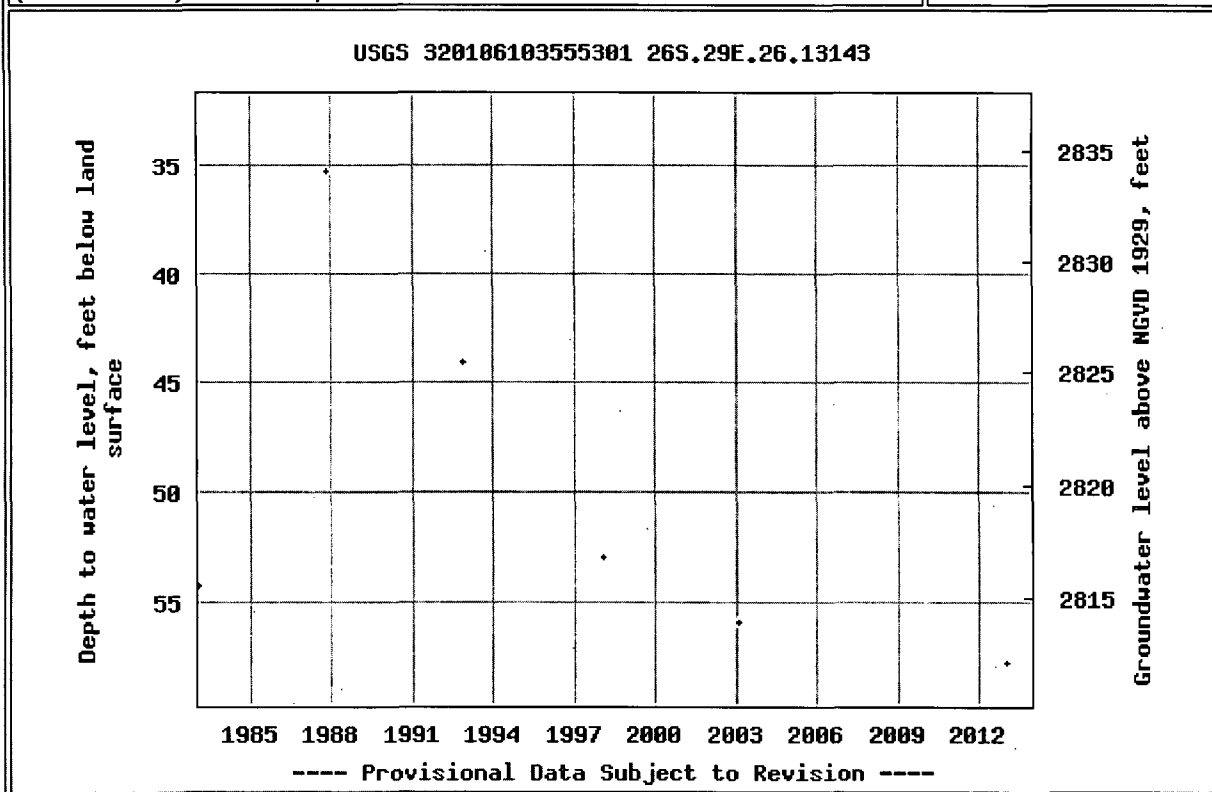
Eddy County, New Mexico

Hydrologic Unit Code --

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Land-surface elevation 2,869.60 feet above NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in the Rustler Formation  
(312RSLR) local aquifer.**Output formats**[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00349	C	CUB	ED	1	3	18	24S	29E		591401	3564773*	2734		
C 00381	C	C	ED	3	2	3	07	24S	29E	591682	3566297*	2797		
C 00463		C	ED	4	4	4	17	24S	29E	594332	3564282*	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	3561440*	306		
C 00862			ED	1	2	4	30	24S	29E	592538	3561644*	155		
C 00863			ED	3	3	1	16	24S	29E	594524	3565091*	220		
C 00863 CLW199506	O		ED	3	3	1	16	24S	29E	594524	3565091*	220		
C 02713		C	ED	4	4	1	16	24S	29E	591633	3565944	230	18	212

Average Depth to Water: **11 feet**

Minimum Depth: **4 feet**

Maximum Depth: **18 feet**

Record Count: 9

PLSS Search:

Township: 24S

Range: 29E

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW, 2=NE 3=SW 4=SE)  
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin Use Diversion Owner	County	POD Number	Code Grant	Source	q q q	6416 4	Sec	Tws	Rng	X	Y
C 00463	C PRO 0 U.S. GEOLOGICAL SURVEY	ED	C 00463		Shallow	4 4 4	17	24S	29E	594332	3564282*	

Record Count: 1

POD Search:

POD Number: C 00463

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 4:41 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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












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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD	County	Q Q Q						X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code		64	16	4	Sec	Tws	Rng						
C 02108		ED	1	3	08	24S	30E	602702	3566487*		200	186	14	
C 02109		ED	1	2	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	2	3	2	23	24S	30E	608535	3563857*		505		
C 02781		ED	4	3	2	23	24S	30E	608535	3563657*		624		
C 02782		ED	4	3	2	23	24S	30E	608535	3563657*		808		
C 03558 POD1	C	ED	1	2	2	25	24S	30E	610442	3562615		50		
C 03558 POD2	C	ED	1	2	2	25	24S	30E	610442	3562615		50		
C 03558 POD3	C	ED	1	2	2	25	24S	30E	610442	3562615		50		
C 03558 POD4	C	ED	1	2	2	25	24S	30E	610442	3562615		50		
C 03558 POD5	C	ED	1	2	2	25	24S	30E	610442	3562615		50		

Average Depth to Water: **245 feet**

Minimum Depth: **150 feet**

Maximum Depth: **400 feet**

Record Count: 11

PLSS Search:

Township: 24S

Range: 30E

\*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.



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

(quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub			Owner	County	POD Number	Code Grant	q q q					X	Y
	basin	Use	Diversion					Source	6416 4	Sec	Tws	Rng		
C 02108		STK		3 A PARTNERSHIP M&M CATTLE CO	ED	C 02108		1 3	08	24S	30E	602702	3566487*	

**Sorted by: File Number**

### ACTIVE & INACTIVE POINTS OF DIVERSION





# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)												
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
<a href="#">C 02109</a>		STK		3 TYSON MAHAFFEY	ED	<a href="#">C 02109</a>			6416 4	1	2	4	19	24S	30E	602130	3563412
<a href="#">C 03616</a>	C	PRO		0 CONCHO OIL & GAS	ED	<a href="#">C 02109</a>			6416 4	1	2	4	19	24S	30E	602130	3563412

Record Count: 2

POD Search:

POD Number: C 02109

Sorted by: File Number

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 4:54 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									

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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02405	C	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
C 02440	C	ED		2	3	10	24S	31E		616103	3566599*	350		
C 02460	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02460 POD2	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02464	C	ED		3	4	1	02	24S	31E	617589	3568530*	320	205	115
C 02661		ED		3	3	1	04	24S	31E	613969	3568485*	708		
C 02783	CUB	ED		3	3	1	04	24S	31E	613911	3568461	708		
C 02783 POD2	C	ED		3	3	1	04	24S	31E	613911	3568461	672		
C 02784	C	ED		4	2	4	04	24S	31E	613911	3568461	584		
C 02785		ED		3	3	1	04	24S	31E	613969	3568485*	692		

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **205 feet**

Record Count: 10

PLSS Search:

Township: 24S

Range: 31E

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft 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=SE)		(quarters are smallest to largest)		(NAD83 UTM in meters)				
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y
<a href="#">C 00225 A</a>		IRR	8.4	GREGORY ROCKHOUSE RANCH	ED	<a href="#">C 02405</a>			Shallow	4	1	02	24S 31E	617690	3568631* 
<a href="#">C 01246 AO</a>		IRR	47.82	CATHLEEN MC INTIRE	ED	<a href="#">C 02405</a>			Shallow	4	1	02	24S 31E	617690	3568631* 
<a href="#">C 02405</a>	C	PRO	0	TEXACO EXPLORATION & PROD. IND	ED	<a href="#">C 02405</a>			Shallow	4	1	02	24S 31E	617690	3568631* 
<a href="#">C 02452</a>	C	PRO	0	TEXACO EXPLORATION & PROD INC.	ED	<a href="#">C 02405</a>			Shallow	4	1	02	24S 31E	617690	3568631* 
<a href="#">C 02576</a>	C	PRO	0	SONAT EXPLORATION COMPANY	ED	<a href="#">C 02405</a>			Shallow	4	1	02	24S 31E	617690	3568631* 

Record Count: 5

**POD Search:**

POD Number: C 02405

**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 5:01 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01337	C	ED		2	1	30	25S	29E		591926	3552642*	180	30	150
C 01880	C	ED		3	3	2	06	25S	29E	592161	3558605*	85	40	45
C 02371	C	ED		2	3	15	25S	29E		596741	3555106*	200	60	140
C 02459	C	ED		4	4	1	02	25S	29E	598422	3558663*	150		
C 02518	C	ED		3	4	08	25S	29E		593895	3556300*	462		
C 02680	C	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 feet**

Minimum Depth: **30 feet**

Maximum Depth: **60 feet**

Record Count: 7

PLSS Search:

Township: 25S

Range: 29E

\*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.

*New Mexico Office of the State Engineer*  
**Active & Inactive Points of Diversion**  
 (with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y
C 01337	C	STK		3 JAMES NYMEYER	ED	C 01337			Shallow	2	1	30	25S 29E	591926	3552642*

Record Count: 1

**POD Search:**

POD Number: C 01337

**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.



# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
										(acre ft per annum)									
</																			

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)  
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

q q q

Record Count: 1

### POD Search:

POD Number: C 01880

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 5:14 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION





(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

(R=POD has  
been replaced,  
O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column
C 01379	C	ED	4	4	3	10	25S	30E	606571	3556355*		400	

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

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.



# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
</																			



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02250			ED	3	1	4	21	25S	31E	614912	3553620*	400	390	10
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	1025		
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	1016		
C 02570			ED	4	2	4	02	25S	31E	618704	3558489*	895		
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	860		
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	852		
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*			
C 02574			ED	1	1	2	02	25S	31E	618092	3559494*			

Average Depth to Water: **390 feet**

Minimum Depth: **390 feet**

Maximum Depth: **390 feet**

Record Count: 8

PLSS Search:

Township: 25S

Range: 31E

\*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.



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01354 X-3	C	ED		2	1	3	23	26S	29E	598323	3543837	170		
C 02038	C	ED		3	2	4	26	26S	29E	599204	3541992*	200		
C 03507 POD1	C	ED		1	3	3	05	26S	29E	593064	3548313	140	78	62
C 03508 POD1	C	ED		1	3	3	05	26S	29E	593063	3548361	140	75	65

Average Depth to Water: **76 feet**

Minimum Depth: **75 feet**

Maximum Depth: **78 feet**

Record Count: 4

PLSS Search:

Township: 26S

Range: 29E

\*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.



# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									

(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=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

q q q

Record Count: 1

### POD Search:

POD Number: C 03507 POD1

Sorted by: File Number

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 5:28 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01360	C	ED		4	3	3	05	26S	30E	602997	3548152	770	173	597
C 01361		ED		3	4	3	05	26S	30E	603240	3548157	775	184	591
C 02165	C	ED					24	26S	30E	610036	3544121*	440	180	260
C 03483	C	ED		4	4	4	05	26S	30E	604296	3548251	700	200	500

Average Depth to Water: **184 feet**

Minimum Depth: **173 feet**

Maximum Depth: **200 feet**

**Record Count: 4**

**PLSS Search:**

Township: 26S

Range: 30E

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	(acre ft per annum)				County	POD Number	Code Grant	(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=SE) (quarters are smallest to largest) (NAD83 UTM in meters)									
	Sub basin	Use	Diversion	Owner				Source	6416	4	Sec	Tws	Rng	X	Y		
<a href="#">C 01360</a>		IND	0	EL PASO NATURAL GAS	ED	<a href="#">C 01360</a>		Shallow	4	3	3	05	26S	30E	602996	3548152	
<a href="#">C 03448</a>	C	PRO	0	DEVON ENERGY CORP.	ED	<a href="#">C 01360</a>		Shallow	4	3	3	05	26S	30E	602996	3548152	
<a href="#">C 03449</a>	C	PRO	0	OGX RESOURCES	ED	<a href="#">C 01360</a>		Shallow	4	3	3	05	26S	30E	602996	3548152	

Record Count: 3

POD Search:

POD Number: C 01360

Sorted by: File Number

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 5:31 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



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

(quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub			Owner	County	POD Number	Code Grant	q q q					X	Y	
	basin	Use	Diversion					Source	6416	4	Sec	Tws			Rng
C 01361	IND		0	EL PASO NATURAL GAS	ED	C 01361	Shallow	3	4	3	05	26S	30E	603240	3548157

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per annum)																		
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y				
C 02165	C	PRO			0 GRACE OIL	ED	C 02165			Shallow		24	26S	30E	610036	3544121*				

Record Count: 1

### POD Search:

POD Number: C 02165

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 5:32 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

*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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
(acre ft per annum)																			
WR File-Nbr	Sub		Owner	County	POD Number	Code	Grant	q q q							X	Y			
	basin	Use						Diversion	Source	6416	4	Sec	Tws	Rng					
C 03483			0 BUREAU OF LAND MANAGEMENT	ED	C 03483			Shallow	4	4	4	05	26S	30E	604296	3548251			
C 03501	C	PRO	0 DEVON ENERGY CO.	ED	C 03483			Shallow	4	4	4	05	26S	30E	604296	3548251			
C 03502	C	PRO	0 DEVON ENERGY CO	ED	C 03483			Shallow	4	4	4	05	26S	30E	604296	3548251			
C 03503	C	PRO	0 DEVON ENERGY CO.	ED	C 03483			Shallow	4	4	4	05	26S	30E	604296	3548251			

Record Count: 4

**POD Search:**

POD Number: C 03483

**Sorted by: File Number**

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 5:32 PM

Page 1 of 1

### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has  
been replaced,  
O=orphaned,

C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01777	C	ED					08	26S	31E	613245	3547409*	325	300	25
C 02090		ED		4	4	01		26S	31E	620329	3548533*	350	335	15
C 02248		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	C	ED		2	1	4	01	26S	31E	620077	3549022	1000		

Average Depth to Water: **304 feet**

Minimum Depth: **292 feet**

Maximum Depth: **335 feet**

Record Count: 5

PLSS Search:

Township: 26S

Range: 31E

\*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.



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION



(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION





# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
										(acre ft per annum)									



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

(quarters are smallest to largest) (NAD83 UTM in meters)

### ACTIVE & INACTIVE POINTS OF DIVERSION

## Bratcher, Mike, EMNRD

---

**From:** Amy Ruth <aruth@diversifiedfsi.com>  
**Sent:** Tuesday, March 04, 2014 10:38 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** 2RP-1855 Backfill - CLOSURE  
**Attachments:** BOPCO PLU Big Sinks 14 25 30 USA #001H - Site Diagram w Sample Data.pdf; H301932 DIVERSIFIED.pdf; H302037 DIVERSIFIED sp1,2,4.pdf

**Importance:** High

Hey Mike,

We had our discussion about this site with you, and were given permission to backfill. Do we need to go to your office to also close it? I can get the report to you now (data being all the same), but wanted to know if we could, in this case, save us all a bit of time. I know that is something we all could do with right now! Please let me know and I'll get the bound report to you. I'll call you soon. As always, thank you for your help!

---

**From:** Amy Ruth  
**Sent:** Thursday, October 17, 2013 9:22 AM  
**To:** Mike Bratcher ([mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us))  
**Cc:** [SJWalters@BassPet.Com](mailto:SJWalters@BassPet.Com); Michael Patterson; Stephen McGhee - Diversified Field Service, Inc. ([smcghee@diversifiedfsi.com](mailto:smcghee@diversifiedfsi.com)); 'jamos@blm.gov'  
**Subject:** 2RP-1855 Backfill

Hi Mike,

This email is in reference to our meeting with you on Friday morning 10/4/2013 for this BOPCO leak. In our discussion, we presented lab data with a plat of the site, along with a groundwater study of the area. At the conclusion of the meeting, it was decided that BOPCO has permission to backfill the excavation at PLU Big Sinks 14 25 30 USA #001H (2RP-1855). A closure report will be compiled and submitted after backfill of the site is completed. If you have any questions/concerns, please call me at the number below.

Thank you so much for your time and assistance!

*Amy C. Ruth*

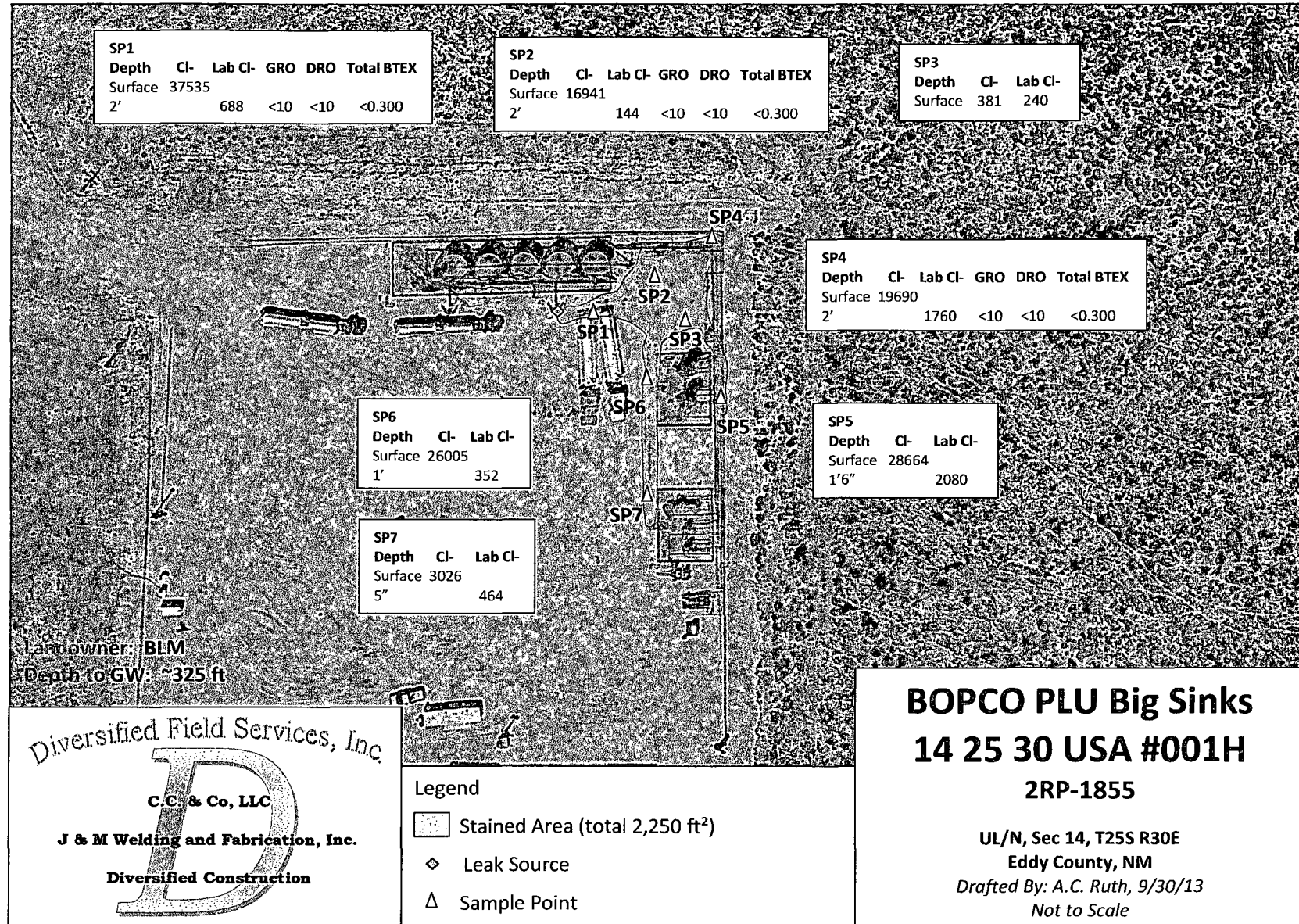
Diversified Field Services, Inc.  
315 S. Leech St.  
Hobbs, NM 88240  
Office: (575)397-6437  
Mobile: (575)390-5454  
Fax: (575)393-2981

*"Nothing will work unless you do." -Maya Angelou*

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate,

distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

# Site Diagram with Sample Data





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

---

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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 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		Analyzed By: AP						
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, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		

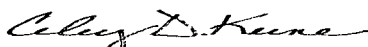
**Sample ID: SP 6 @ 1' (H301932-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed 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

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

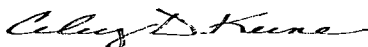
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---

Celey D. Keene, Lab Director/Quality Manager


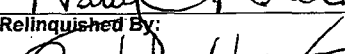

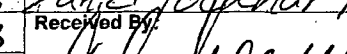




## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 4 of 4

<small>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 the client for the 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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>			
<b>Relinquished By:</b>  <b>Relinquished By:</b>  <b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Date:</b> 8-14-13 <b>Time:</b> 14:56 <b>Date:</b> 8/14/13 <b>Time:</b> 3:17p	<b>Received By:</b>  <b>Received By:</b>  <b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No 6.28	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

---

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 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)**

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/29/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed 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					

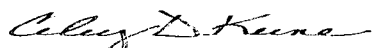
Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.

AMY RUTH

P. O. BOX 5966

HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 08/23/2013  
Reported: 08/29/2013  
Project Name: PLU BIG SINKS 14 25 30 USA #001H  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 08/15/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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					

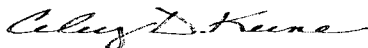
Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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		Analyzed 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 (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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					

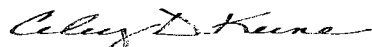
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

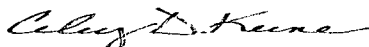
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---



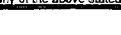
Celey D. Keene, Lab Director/Quality Manager



## Page 6 of 6

[illegible]

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 the client for the 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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 8-23-13	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: 		Time: 1515	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Date:	Time:	REMARKS:	
Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: 	
1.8°C				email STWalters@BassPet.Comm aruth@diversifiedfsi.com	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54