District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED
APR 27 2010
HOBBSOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address P.O. Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name Walter Lynch Bty (nearest well #8)	Facility Type Production Facility

Surface Owner Sims/Wallach	Mineral Owner State of NM	~~Lease~~ API No 30-025-25644

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	1	22S	37E	1880'	FNL	760'	FWL	Lea

Latitude N32deg 26' 26.50" **Longitude** W103deg 07' 15.04"

WTR 54'

NATURE OF RELEASE

Type of Release Unknown	Volume of Release Unknown	Volume Recovered Unknown
Source of Release Unknown	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
In 1949 there was an existing pit which was covered up by Marathon in the mid 70's. Surface damage has been present for years, Sim's Ranch had issued a lawsuit against Marathon before Apache purchasing the property. Once we took over the property the site was investigated by using soil borings and later came back to install monitoring wells. Attached is the work plan remediation proposal.

Describe Area Affected and Cleanup Action Taken.* Soil borings were done to find the extent of the contamination and following that monitoring wells were installed. Please review the workplan remediation proposal for cleanup action to be taken.

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: Natalie Gladden

Printed Name: Natalie Gladden

Title: EH&S Environmental Tech

E-mail Address: natalie.gladden@apachecorp.com

Date: 04/15/10 Phone: 575-390-4186

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRONMENTAL ENGINEER

Approval Date: 4.28.10 Expiration Date: SUBMIT TO SANTA FE - GROUNDWATER IMPACTED

Conditions of Approval:

~~Attached~~ ☐
IRP # 10.4.2498

* Attach Additional Sheets If Necessary

ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

28 January 2010

Mr. Larry Johnson
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RE: Groundwater ~~Impacts~~ INVESTIGATION 4.28.10
Apache Corporation, Inc. – Walter Lynch Tank Battery
UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E
Latitude: N32° 25' 26.50"; Longitude W103° 07' 15.04"
Lea County, New Mexico
EPI Ref. #240031

Dear Mr. Johnson:

On August 26, 2009 Environmental Plus, Inc., (EPI) on behalf of Apache Corporation advanced four (4) soil borings to delineate subsurface conditions surrounding the Walter Lynch Tank Battery. The soil borings were advanced to respective depths as noted in Appendix I, *Soil Boring Logs* (Ref. *Figure #3* for locations). Soil samples were collected at five (5) feet intervals and analyzed in the field for TPH and Chloride concentrations. Soil samples remitted to an independent laboratory were tested for TPH, BTEX and Chloride concentrations. In noting Table 2, *Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results,* TPH and BTEX concentrations were below New Mexico Oil Conservation Remedial (NMOCD) Threshold Goals of 100 mg/Kg and 50 mg/Kg, respectively, for all soil borings. Both field and laboratory analyses for Chloride concentrations indicated values above NMOCD Remedial Threshold Goals of 250 mg/Kg existed in all soil borings.

In conformance with NMOCD Rules and Regulations, all four (4) well bores were plugged and abandoned (P&A) on August 27, 2009.

From December 8 - 9, 2009 EPI and Straub Corporation assembled at the location to advance three (3) soil borings with conversion to permanent Monitor Wells (i.e., MW-1, MW-2 and MW-3). Monitor Well locations are noted on Figure #4 and soil boring lithology on Appendix II, *Monitor Well Soil Boring Logs*. MW-1 is identified as background source for soil and water sample analytical results as it is located in the groundwater upstream gradient (Ref. Figure #5, *Water Table Contours Map*). Field analyses and laboratory analytical results of soil samples collected for analyses of TPH, BTEX and Chloride concentrations are listed on Table #2. As noted in Table #2, all soil borings soil samples were below NMOCD Remedial Threshold Goals for TPH, BTEX and Chloride concentrations.

Following completion of Monitor Well installation, EPI produced the wells in conformance with accepted practice and NMOCD procedures on December 11, 2009. Water samples were collected, poured into laboratory provided containers, placed in a cooler containing ice and transported to EPI headquarters where they were transferred to a refrigerator. On December 14, 2009 water samples were transported to Cardinal Laboratory in Hobbs, New Mexico for quantification of BTEX, Chloride, Sulfate, pH, TDS and Heavy Metal concentrations.

P.O. BOX 1558 ••• 2100 WEST AVENUE O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 575•394•3481 ••• FAX 575•394•2601

ENVIRONMENTAL PLUS, INC.

In reviewing Table #3, *Monitor Well Groundwater Laboratory Analytical Results*, BTEX, Sulfate, pH, and Heavy Metal concentrations were below NMWQCC Standards for all three (3) monitor wells. However, both TDS and Chloride concentrations exceeded these Standards in all three (3) monitor wells. With MW-1 being the background source for comparison, MW-3 nearly duplicates analytical results for TDS and Chloride concentrations (Ref. Figure #5, *Chloride Contours Map*). Hence, it appears MW-2 is representative of an increase in groundwater impacts above NMWQCC Standards for this locale. In acknowledging existence of groundwater impacts in MW-2, EPI and Apache Corporation await directions from the NMOCD to implement the next Remedial Phase. In the interim, all monitor wells will be gauged and groundwater samples collected on a quarterly basis for TDS and Chloride concentrations with laboratory analytical results submitted to the NMOCD.

Should you have concerns, questions or need additional technical information, please contact me at (575) 394-3481 (office), (575) 441-5951 (cellular) or via e-mail at ddominguez@envplus.net. Official communications should be directed to Ms. Natalie Gladden at (575) 394-1503 Ext. 1249 (office), (575) 390-4186 (cellular) or via e-mail at Natalie.gladden@apachecorp.com while correspondence should be addressed to:

Ms. Natalie Gladden
Environmental Technician
EH & S, Permian Basin
Apache Corporation
8 Ellison Lane
P.O. Box 1849
Eunice, New Mexico 88231

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominquez
Environmental Consultant

Cc: Ms. Natalie Gladden, Apache Corporation – Eunice
Alan J. Kane, Kane Environmental – Houston
Cody Miller, EPI - Eunice

Attachments:

Figure 1 – Area Map

Figure 2 – Site Location Map

Figure 3 - Soil Boring Location Map

Figure 4 – Monitor Well Location Map

Figure 5 – Contours Map (Water Table and Chlorides)

Table 1 – Well Data

Table 2 – Summary of Soil Boring Field Analyses and Laboratory Analytical Results

Table 3 – Monitor Well Groundwater Laboratory Analytical Results

Appendix I – Soil Boring Logs

Appendix II– Monitor Well Soil Boring Logs

Appendix III – Laboratory Analytical Results

FIGURES

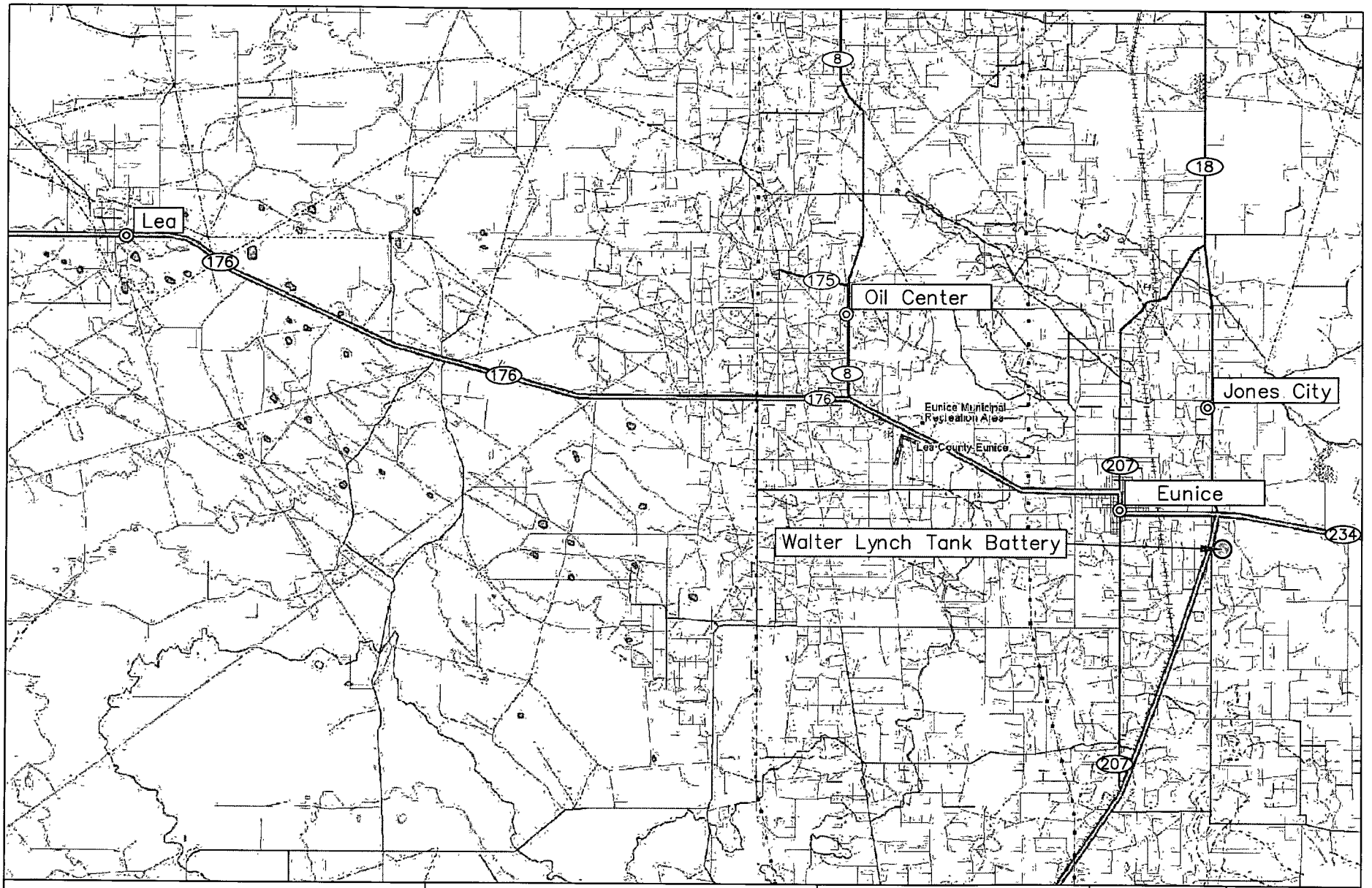


Figure 1
Area Map
Apache Corp.
Walter Lynch Tank Battery

Lea County, New Mexico
SE 1/4 of the NW 1/4, Sec. 1, T22S, R37E
N 32° 25' 26.50" W 103° 07' 15.04"
Elevation: 3,363 feet amsl

DWG By: D Dominguez
September 2009

REVISED:

SHEET
1 of 1

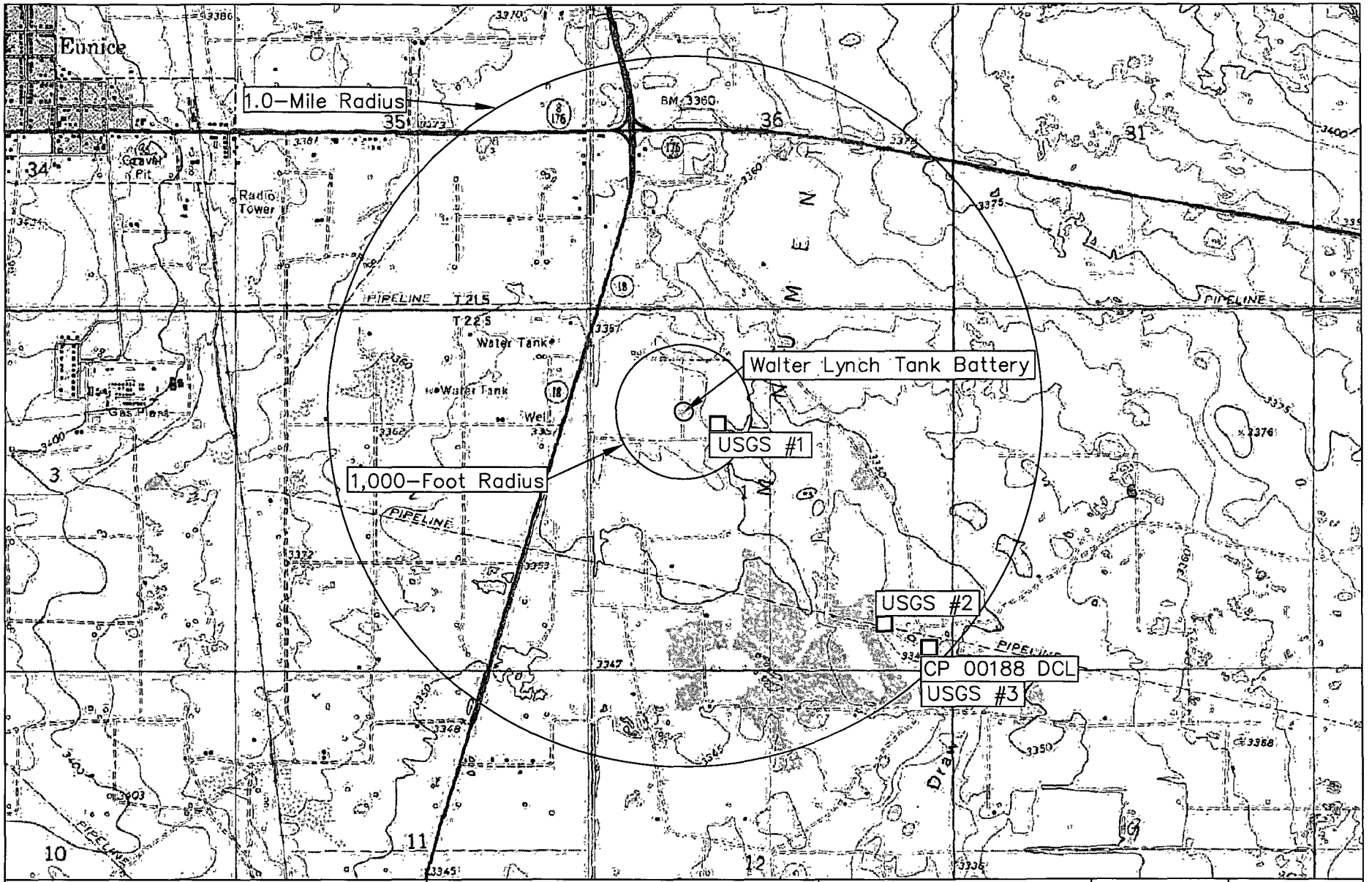


Figure 2
Site Location Map
Apache Corp.
Walter Lynch Tank Battery

Lea County, New Mexico
SE 1/4 of the NW 1/4, Sec. 1, T22S, R37E
N 32° 25' 26.50" W 103° 07' 15.04"
Elevation: 3,363 feet amsl

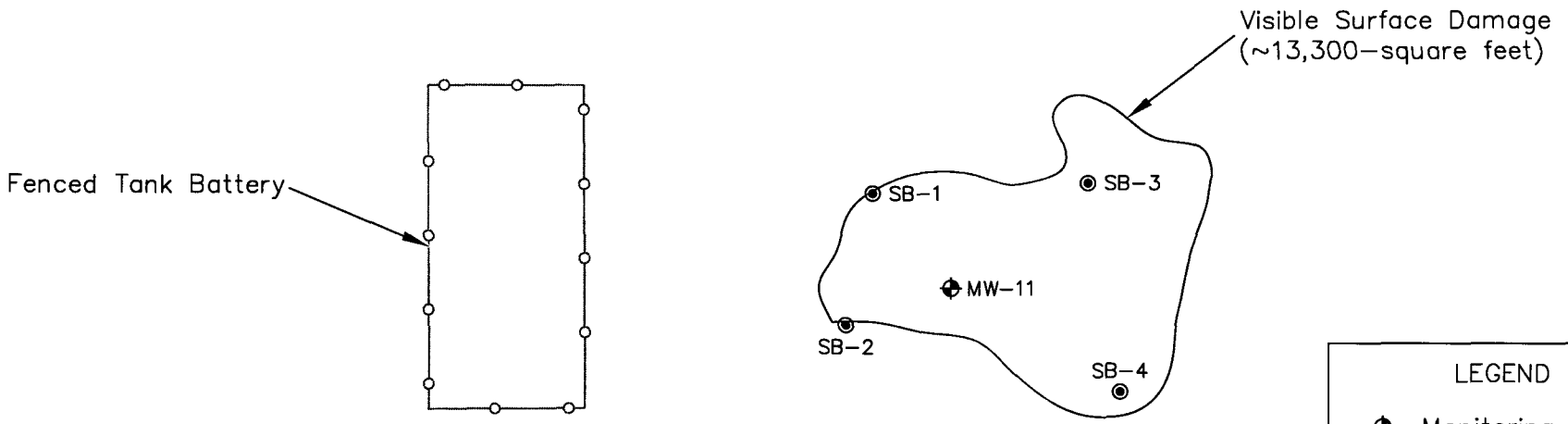
DWG By: D Dominguez
September 2009

REVISED:

0 2,000 4,000
Feet

SHEET
1 of 1

N



LEGEND

- Monitoring Well
- Soil Boring

Figure 3 Site Map Apache Corp. Walter Lynch Tank Battery	Lea County, New Mexico SE 1/4 of the NW 1/4, Sec. 1, T22S, R37E N 32° 25' 26.50" W 103° 07' 15.04" Elevation: 3,363 feet amsl	DWG By: D Dominguez January 2010 0 60 120 Feet	REVISED: SHEET 1 of 1	N

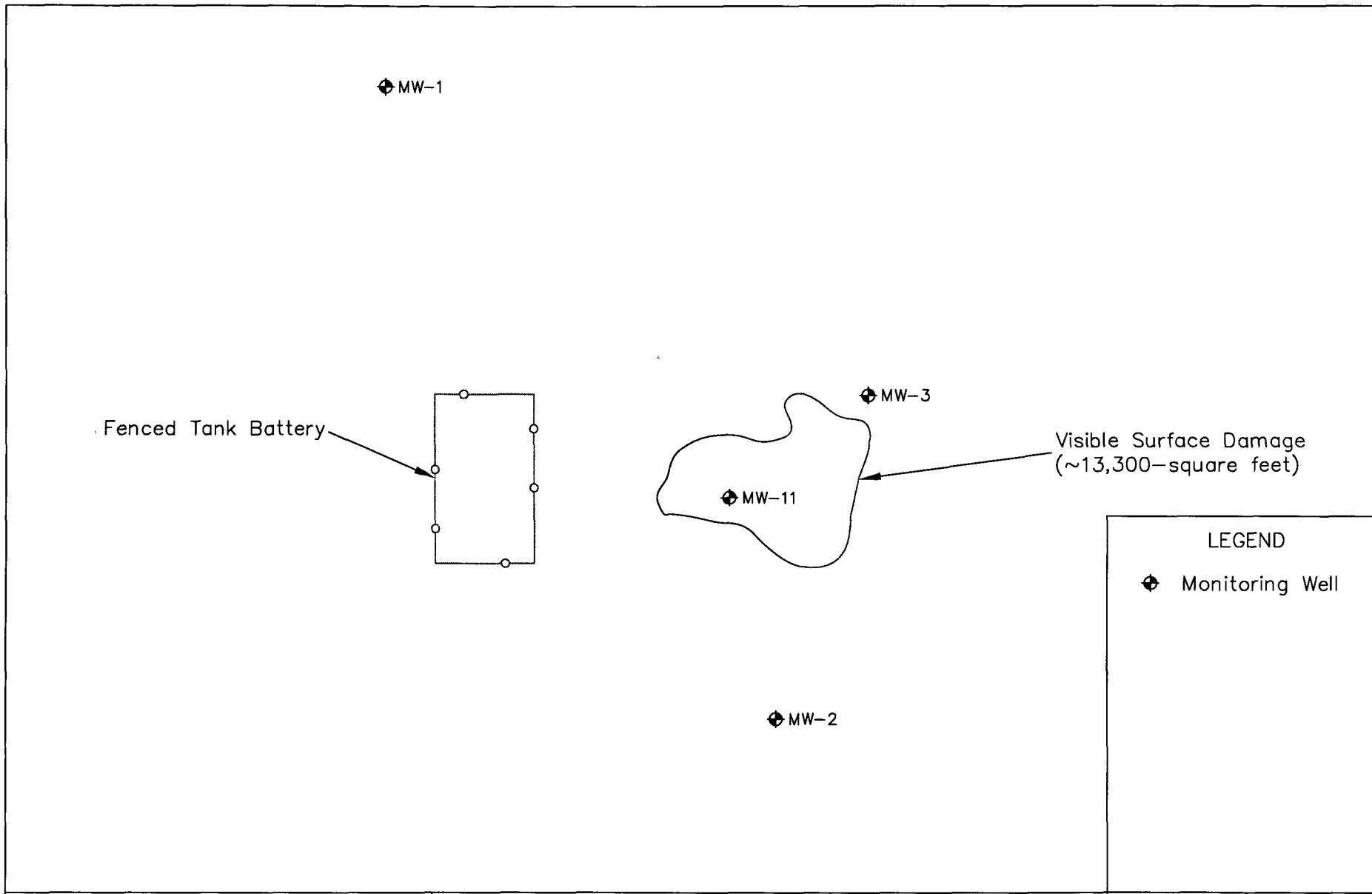
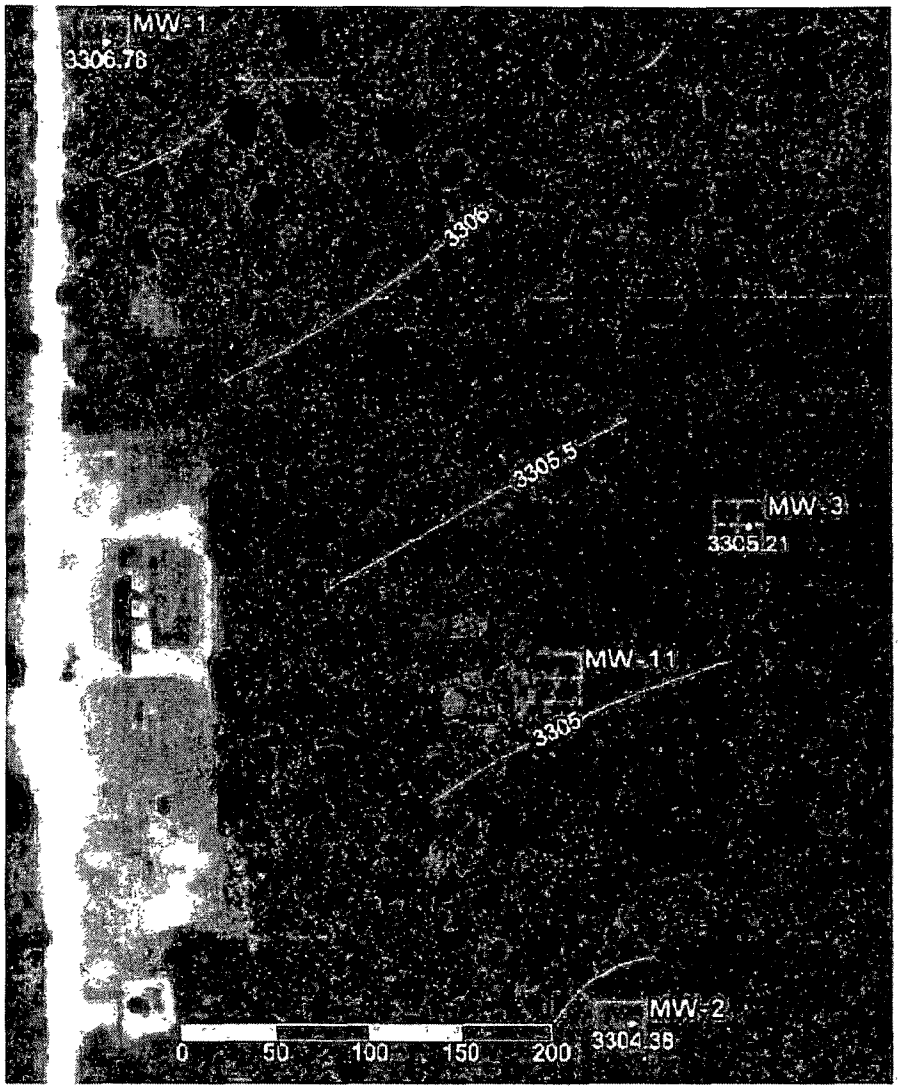


Figure 4 Monitor Well Map Apache Corp. Walter Lynch Tank Battery	Lea County, New Mexico SE 1/4 of the NW 1/4, Sec. 1, T22S, R37E N 32° 25' 26.50" W 103° 07' 15.04" Elevation: 3,363 feet amsl	DWG By: D Dominguez January 2010 0 100 200 Feet	REVISED: SHEET 1 of 1 N

Water Table Contours (Feet)



Chlorides (mg/L)

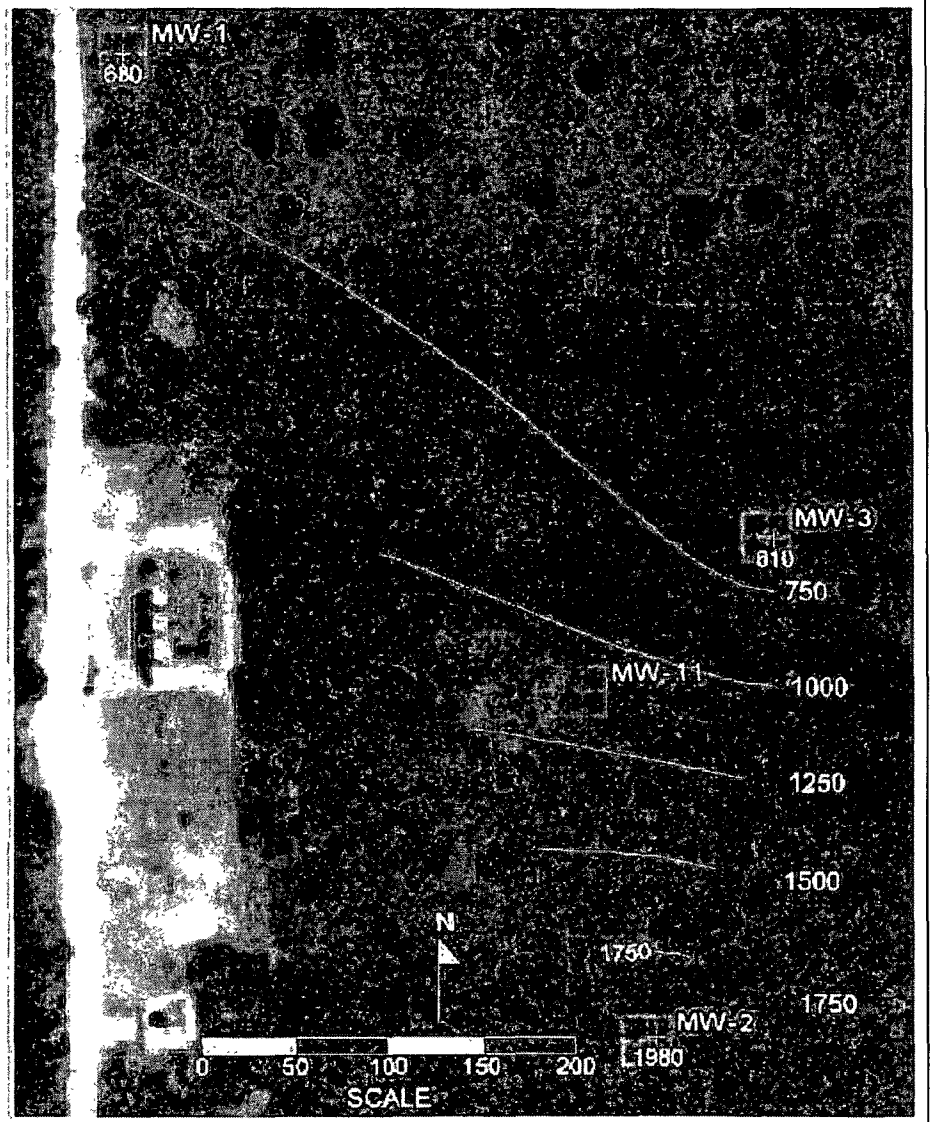


Figure 5 Contours Map Apache Corp. Walter Lynch Tank Battery	Lea County, New Mexico SE 1/4 of the NW 1/4, Sec. 1, T22S, R37E N 32° 25' 26.50" W 103° 07' 15.04" Elevation: 3,363 feet amsl	DWG By: A. J. Kane January 2010 0 100 200 Feet	REVISED: SHEET 1 of 1	N

TABLES

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-1	5	In situ	26-Aug-09	0.5	560	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10 0	<20.0	**256**
SB-1	10	In situ	26-Aug-09	0.2	880	<0.050	<0 050	<0 050	<0.300	<0.450	<10.0	<10.0	<0.20	**864**
SB-1	15	In situ	26-Aug-09	0.3	560	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<0.20	**784**
SB-1	20	In situ	26-Aug-09	0.2	720	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<0.20	**432**
SB-1	25	In situ	26-Aug-09	0.1	800	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<0 20	**672**
SB-1	30	In situ	26-Aug-09	0.0	640	<0.100	<0.100	<0 100	<0.300	<0 600	<10.0	<10.0	<0.20	96
SB-1	35	In situ	26-Aug-09	19.1	1,360	<0.100	<0 100	<0.100	<0.300	<0 600	<10.0	<10 0	<0.20	**1,424**
SB-1	40	In situ	26-Aug-09	58.1	560	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<0.20	**528**
SB-1	45	In situ	26-Aug-09	35 1	560	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10.0	<0.20	**416**
SB-1	50	In situ	26-Aug-09	19.8	400	<0.100	<0 100	<0 100	<0.300	<0.600	<10.0	<10 0	<0 20	**256**
SB-1	55	In situ	26-Aug-09	1.7	400	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10.0	<0 20	**384**
SB-1	60	In situ	26-Aug-09	19.1	- -	<0 050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	128

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-1	65	In situ	26-Aug-09	58.1	- -	<0.100	<0.100	<0.100	<0.300	<0.600	<10 0	<10.0	<20.0	**304**
SB-2	5	In situ	26-Aug-09	0.2	400	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**256**
SB-2	10	In situ	26-Aug-09	0.3	720	<0.100	<0.100	<0.100	<0.300	<0.600	<10 0	12.3	12.3	**720**
SB-2	15	In situ	26-Aug-09	1.2	1,040	<0.050	<0.050	<0 050	<0.300	<0.450	<10 0	<10 0	<20.0	**880**
SB-2	20	In situ	26-Aug-09	0.1	960	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	**880**
SB-2	25	In situ	26-Aug-09	0.1	1,200	<0.100	<0.100	<0 100	<0.300	<0.600	<10.0	<10 0	<20.0	**1,310**
SB-2	30	In situ	26-Aug-09	0.4	720	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**704**
SB-2	35	In situ	26-Aug-09	0.1	720	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**800**
SB-2	40	In situ	26-Aug-09	0 0	1,600	<0.050	<0.050	<0.050	<0.300	<0.450	<10 0	<10.0	<20.0	**1,860**
SB-2	45	In situ	26-Aug-09	0.1	1,600	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10 0	<20.0	**416**
SB-2	50	In situ	26-Aug-09	0.2	1,600	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**1,790**
SB-2	55	In situ	26-Aug-09	0 0	400	<0.050	<0 050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	96

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-2	60	In situ	26-Aug-09	0.0	400	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	144
SB-2	65	In situ	26-Aug-09	0.0	- -	<0 050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	**336**
SB-3	5	In situ	26-Aug-09	0.4	240	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10 0	<20.0	<16
SB-3	10	In situ	26-Aug-09	0.2	240	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	16
SB-3	15	In situ	26-Aug-09	0.1	600	<0.050	<0.050	<0.050	<0 300	<0.450	<10 0	<10.0	<20.0	32
SB-3	20	In situ	26-Aug-09	0 1	640	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10 0	<20.0	176
SB-3	25	In situ	26-Aug-09	0.3	1,200	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	11 8	11 8	**1,230**
SB-3	30	In situ	26-Aug-09	0.1	800	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	**784**
SB-3	35	In situ	26-Aug-09	0.3	1,200	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	**1,170**
SB-3	40	In situ	26-Aug-09	0.1	1,120	<0.050	<0.050	<0 050	<0 300	<0.450	<10.0	<10.0	<20.0	**896**
SB-3	45	In situ	26-Aug-09	0.2	640	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<20.0	**272**
SB-3	50	In situ	26-Aug-09	0.3	560	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**480**

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-3	55	In situ	26-Aug-09	0.0	400	<0.050	<0.050	<0.050	<0.300	<0 450	<10 0	<10 0	<20.0	240
SB-3	56	In situ	26-Aug-09	0 0	- -	<0.050	<0 050	<0 050	<0.300	<0 450	<10.0	<10.0	<20.0	240
SB-4	5	In situ	26-Aug-09	0.7	240	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	16
SB-4	10	In situ	26-Aug-09	0.3	320	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	11.0	11.0	160
SB-4	15	In situ	26-Aug-09	0 4	320	<0 050	<0.050	<0.050	<0 300	<0.450	<10 0	<10 0	<20.0	128
SB-4	20	In situ	26-Aug-09	0.3	320	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10 0	<20.0	160
SB-4	25	In situ	26-Aug-09	0.2	480	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**272**
SB-4	30	In situ	26-Aug-09	0.3	480	<0 050	<0.050	<0.050	<0 300	<0.450	<10 0	14.8	14.8	**272**
SB-4	35	In situ	26-Aug-09	0.3	400	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	**304**
SB-4	40	In situ	26-Aug-09	0 3	400	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10.0	<20.0	**256**
SB-4	45	In situ	26-Aug-09	0.2	400	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<20.0	**304**
SB-4	50	In situ	26-Aug-09	0.2	560	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	**560**

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-4	55	In situ	26-Aug-09	0.0	--	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	**672**
SB-4	56	In situ	26-Aug-09	0.0	--	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	**560**
MW-1	10	In situ	8-Dec-09	0.0	80	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	<16
MW-1	60	In situ	8-Dec-09	0.0	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	64
MW-2	10	In situ	8-Dec-09	0.00	80	<0.050	<0.050	<0.050	<0 300	<0.450	<10 0	<10.0	<20 0	<16
MW-2	60	In situ	8-Dec-09	0.00	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10 0	<20.0	96
MW-3	10	In situ	9-Dec-09	0.00	80	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	16
MW-3	57	In situ	9-Dec-09	0 00	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	96
NMOCD Remedial Thresholds				100		10				50			100	250

Bolded values are in excess of NMOCD Remediation Threshold Goals

SB = Soil Boring; MW = Monitor Wells

-- = Not Analyzed

TABLE 3

Monitor Well Groundwater Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (NMOCD Ref. #; EPI Ref.# 240031)

Sample I D	Sample Date	TDS	Mercury (mg/L)	Silver (mg/L)	Lead (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Selenium (mg/L)	Chromium (mg/L)	Arsenic (mg/L)	pH (SU)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	Sulfates (mg/L)	Chloride (mg/L)
MW - 1	11-Dec-09	**1,720**	<0 0002	<0 01	<0 05	<0 01	<0 01	<0 20	<0 01	<0 10	7.38	<0 001	<0.001	<0.001	<0 003	<0 006	283	**680**
MW -2	11-Dec-09	**3,680**	0 002	<0 01	<0 05	<0 01	<0 01	<0 20	<0 01	<0 10	7 28	<0 001	<0 001	<0 001	<0 003	<0 006	310	**1,980**
MW - 3	11-Dec-09	**1,400**	0 003	<0 01	<0 05	<0 01	<0 01	<0 20	<0.01	<0 10	7.66	<0 001	<0.001	<0.001	<0 003	<0 006	190	**610**
NMWQCC Remedial Threshold Goals		1,000	0 002	0 05	0 05	1 0	0 01	0 05	0 05	0.1	Between 6 & 9	0 01	0 75	0.75	0 62	100	600	250

Bolded values are in excess of NMWQCC Remediation Threshold Goals
-- = Not Analyzed

APPENDICES

APPENDIX I

Soil Boring Logs

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY SB-1	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	28.00	N
	LONGITUDE	103	7	13.00	W

* ACCURACY REQUIRED ONE TENTH OF A SECOND

* DATUM REQUIRED WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE, DRINKARD ROAD, 3 MILES EAST OF EUNICE NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-26-09	8-26-09	0	65	N/A

COMPLETED WELL IS ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	65	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	0	2	5	.5 BAG OF CEMENT		TOPLOAD
	2	65	5	13 BAGS OF 3/8 PLUG		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	7	7	TAN FINE SAND - CALICHE - SANDSTONE	☐ YES ☑ NO
7	10	3	TAN FINE SAND - WITH CLAY	☐ YES ☑ NO
10	20	10	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
20	27	7	TAN FINE SAND- CAL SANDSTONE	☐ YES ☑ NO
27	29	2	RED FINE SAND SANDSTONE	☐ YES ☑ NO
29	46	17	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
46	50	4	RED FINE SAND - WITH CLAY	☐ YES ☑ NO
50	52	2	TAN FINE SAND - CAL. SANDSTONE	☐ YES ☑ NO
52	54	2	TAN FINE SAND - CALICHE - SANDSTONE	☐ YES ☑ NO
54	65	11	RED FINE SAND - SILTY CLAY	☐ YES ☑ NO
TD	65			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING ONLY- SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 9/3/09

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY SB-2	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	27.00	N
	LONGITUDE	103	7	13.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE, DRINKARD ROAD, 3 MILES EAST OF EUNICE NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-26-09	8-26-09	0	65	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	65	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	0	2	5	.5 BAG OF CEMENT		TOPLOAD
	2	65	5	13 BAGS OF 3/8 PLUG		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	7	7	TAN FINE SAND - CALICHE - SANDSTONE	☐ YES ☑ NO
7	10	3	TAN FINE SAND - WITH CLAY	☐ YES ☑ NO
10	28	18	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
28	38	7	TAN FINE SAND - CAL. SANSTONE	☐ YES ☑ NO
38	48	10	CALICHE - TAN CAL SANDSTONE	☐ YES ☑ NO
48	65	17	RED FINE SAND WITH CLAY	☐ YES ☑ NO
TD	65			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST: METHOD ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING ONLY- SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER

9/3/09
DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY SB-3	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	28.00	N
	LONGITUDE	103	7	12.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE, DRINKARD ROAD, 3 MILES EAST OF EUNICE NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-26-09	8-26-09	0	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY.

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	60	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	0	2	5	.5 BAG OF CEMENT		TOPLOAD
	2	60	5	18 BAGS OF 3/8 PLUG		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	9	9	TAN FINE SAND - CALICHE - SANDSTONE	☐ YES ☑ NO
9	15	6	CALICHE	☐ YES ☑ NO
15	41	26	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
41	49	8	TAN FINE SAND - CAL. SANSTONE	☐ YES ☑ NO
49	60	11	RED FINE SAND - CLAY	☐ YES ☑ NO
TD	60			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST: METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS.

SOIL BORING ONLY- SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.

SIGNATURE OF DRILLER — DATE: 9/3/09

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY SB-4	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	27.00	N
	LONGITUDE	103	7	12.00	W

* ACCURACY REQUIRED ONE TENTH OF A SECOND

* DATUM REQUIRED WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE, DRINKARD ROAD, 3 MILES EAST OF EUNICE NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-26-09	8-26-09	0	60	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	60	5	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	0	2	5	.5 BAG OF CEMENT		TOPLOAD
	2	60	5	18 BAGS OF 3/8 PLUG		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	9	9	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
9	25	16	TAN FINE SAND - CALICHE - SANDSTONE	☐ YES ☑ NO
25	34	9	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
34	50	16	TAN FINE SAND - CALICHE SANDSTONE	☐ YES ☑ NO
50	60	10	RED FINE SAND - WITH CLAY	☐ YES ☑ NO
TD	60			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST: METHOD ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING ONLY- SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 9/3/04

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

APPENDIX II

Monitor Well Soil Boring Logs

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY MW-1	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	31.00	N
	LONGITUDE	103	7	16.00	W

* ACCURACY REQUIRED ONE TENTH OF A SECOND

* DATUM REQUIRED WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE- DRINKARD ROAD 3 MILES EAST OF EUNICE NM, LEA CO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-8-09	12-8-09	65	65	

COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
65	45	5	SCH 40 .010 SCREEN	FJ	2	0.154	0.10
45	+43	5	SCH 40 PVC RISER	FJ	2	0.154	RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	65	40	5	6 BAGS OF 20/40 SAND		TOPLOAD
	40	2	5	7 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	2	0	5	1 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	3	3	TAN FINE SAND	☐ YES ☑ NO
3	13	10	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
13	22	9	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
22	28	6	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
28	30	2	(DENCE) SANDSTONE - TAN SAND	☐ YES ☑ NO
30	53	23	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
53	56	3	RED FINE SAND - SILTY RED CLAY	☐ YES ☑ NO
56	58	2	RED SANDY CLAY	☐ YES ☐ NO
58	60	2	RED FINE SAND - CLAY - WITH P GRAVEL	☐ YES ☐ NO
60	65	5	RED FINE SAND - CLAY	☐ YES ☐ NO
TD	65			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS

2X2 PAD - 4X4 HIGH RISER

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 12/29/09

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): WALTER LYNCH TANK BATTERY MW-2		OSE FILE NUMBER(S):	
WELL OWNER NAME(S): APACHE CORPORATION		PHONE (OPTIONAL):	
WELL OWNER MAILING ADDRESS: P.O. BOX 1849		CITY: EUNICE	STATE: NM ZIP: 88231

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	25	25.00	N
LONGITUDE	103	7	13.00	W

* ACCURACY REQUIRED ONE TENTH OF A SECOND
* DATUM REQUIRED WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: APACHE SITE- DRINKARD ROAD 3 MILES EAST OF EUNICE NM, LEA CO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-8-09	12-8-09	70	70	

COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY

DRILLING METHOD ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
70	45	5	SCH 40 .010 SCREEN	FJ	2	0.154	0.10
45	+43	5	SCH 40 PVC RISER	FJ	2	0.154	RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	70	40	5	7 BAGS OF 20/40 SAND		TOPLOAD
	40	2	5	20 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	2	0	5	1 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	26	26	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
26	34	8	CALICHE - TAN FINE SAND	☐ YES ☑ NO
34	62	28	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
62	64	2	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
64	70	6	RED FINE SAND - CLAY	☐ YES ☑ NO
TD	70			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS

2X2 PAD - 4X4 HIGH RISER

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 12/19/09

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
WALTER LYNCH TANK BATTERY MW-3	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
APACHE CORPORATION	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. BOX 1849	EUNICE / NM / 88231

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	25.00	N
	LONGITUDE	103	7	13.00	W

* ACCURACY REQUIRED ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

APACHE SITE- DRINKARD ROAD 3 MILES EAST OF EUNICE NM, LEA CO

2. OPTIONAL

(2 5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-8-09	12-8-09	69	69	

COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
69	49	5	SCH 40 .010 SCREEN	FJ	2	0.154	0.10
49	+43	5	SCH 40 PVC RISER	FJ	2	0.154	RISER

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FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

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LOCATION		PAGE 1 OF 2

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TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
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	40	2	5	8 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	2	0	5	1 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	3	3	TAN FINE SAND	☐ YES ☑ NO
3	5	2	SANDSTONE - TAN FINE SAND	☐ YES ☑ NO
5	14	9	TAN FINE SAND - SANDSTONE - CALICHE	☐ YES ☑ NO
14	27	13	TAN FINE SAND - SANDSTONE	☐ YES ☑ NO
27	53	26	CALICHE TAN SANDSTONE	☐ YES ☑ NO
53	60	7	RED FINE SAND - WITH CLAY	☐ YES ☑ NO
60	69	9	RED SILTY CLAY	☐ YES ☑ NO
TD	69			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY.

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THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.

SIGNATURE OF DRILLER — DATE: 12/19/09

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

APPENDIX III

Laboratory Analytical Results

Laboratory Analytical Results and Chain-of-Custody Forms are contained on a CD attached at end of Report

CARDINAL LABORATORIES

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

September 8, 2009

Roger Boone
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18099, received by the laboratory on 08/27/09 at 10:45 am.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 16 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		08/30/09	08/30/09	08/30/09	08/30/09
H18099-1	SB-1 (5')	<0.100	<0.100	<0.100	<0.300
H18099-2	SB-1 (10')	<0.050	<0.050	<0.050	<0.300
H18099-3	SB-1 (15')	<0.050	<0.050	<0.050	<0.300
H18099-4	SB-1 (20')	<0.050	<0.050	<0.050	<0.300
H18099-5	SB-1 (25')	<0.050	<0.050	<0.050	<0.300
H18099-6	SB-1 (30')	<0.100	<0.100	<0.100	<0.300
H18099-7	SB-1 (35')	<0.100	<0.100	<0.100	<0.300
H18099-8	SB-1 (40')	<0.050	<0.050	<0.050	<0.300
H18099-9	SB-1 (45')	<0.100	<0.100	<0.100	<0.300
H18099-10	SB-1 (50')	<0.100	<0.100	<0.100	<0.300
Quality Control		0.044	0.044	0.043	0.128
True Value QC		0.050	0.050	0.050	0.150
% Recovery		88.0	88.0	86.0	85.3
Relative Percent Difference		4.1	6.2	5.0	4.8

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

09/08/09
Date

H18099 BTEX EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		08/31/09	08/31/09	08/31/09	08/31/09
H18099-11	SB-1 (55')	<0.100	<0.100	<0.100	<0.300
H18099-12	SB-1 (60')	<0.050	<0.050	<0.050	<0.300
H18099-13	SB-1 (65')	<0.100	<0.100	<0.100	<0.300
H18099-14	SB-2 (5')	<0.050	<0.050	<0.050	<0.300
H18099-15	SB-2 (10')	<0.100	<0.100	<0.100	<0.300
H18099-16	SB-2 (15')	<0.050	<0.050	<0.050	<0.300
H18099-17	SB-2 (20')	<0.050	<0.050	<0.050	<0.300
H18099-18	SB-2 (25')	<0.100	<0.100	<0.100	<0.300
H18099-19	SB-2 (30')	<0.050	<0.050	<0.050	<0.300
H18099-20	SB-2 (35')	<0.050	<0.050	<0.050	<0.300
Quality Control		0.051	0.056	0.053	0.155
True Value QC		0.050	0.050	0.050	0.150
% Recovery		102	112	106	103
Relative Percent Difference		3.4	5.1	3.6	2.4

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

09/08/09
Date

H18099 BTEX EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		09/03/09	09/03/09	09/03/09	09/03/09
H18099-21	SB-2 (40')	<0.050	<0.050	<0.050	<0.300
H18099-22	SB-2 (45')	<0.050	<0.050	<0.050	<0.300
H18099-23	SB-2 (50')	<0.050	<0.050	<0.050	<0.300
H18099-24	SB-2 (55')	<0.050	<0.050	<0.050	<0.300
H18099-25	SB-2 (60')	<0.050	<0.050	<0.050	<0.300
H18099-26	SB-2 (65')	<0.050	<0.050	<0.050	<0.300
H18099-27	SB-3 (5')	<0.050	<0.050	<0.050	<0.300
H18099-28	SB-3 (10')	<0.050	<0.050	<0.050	<0.300
H18099-29	SB-3 (15')	<0.050	<0.050	<0.050	<0.300
H18099-30	SB-3 (20')	<0.050	<0.050	<0.050	<0.300
Quality Control		0.053	0.043	0.045	0.151
True Value QC		0.050	0.050	0.050	0.150
% Recovery		106	86.0	90.0	101
Relative Percent Difference		1.2	<1.0	2.8	1.4

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

09/08/09
Date

H18099 BTEX EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		09/03/09	09/03/09	09/03/09	09/03/09
H18099-31	SB-3 (25')	<0.050	<0.050	<0.050	<0.300
H18099-32	SB-3 (30')	<0.050	<0.050	<0.050	<0.300
H18099-33	SB-3 (35')	<0.050	<0.050	<0.050	<0.300
H18099-34	SB-3 (40')	<0.050	<0.050	<0.050	<0.300
H18099-35	SB-3 (45')	<0.050	<0.050	<0.050	<0.300
H18099-36	SB-3 (50')	<0.050	<0.050	<0.050	<0.300
H18099-37	SB-3 (55')	<0.050	<0.050	<0.050	<0.300
H18099-38	SB-3 (56')	<0.050	<0.050	<0.050	<0.300
H18099-39	SB-4 (5')	<0.050	<0.050	<0.050	<0.300
H18099-40	SB-4 (10')	<0.050	<0.050	<0.050	<0.300
Quality Control		0.050	0.053	0.049	0.157
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	106	98.0	105
Relative Percent Difference		<1.0	<1.0	1.3	<1.0

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

09/08/09
Date

H18099 BTEX EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		09/03/09	09/03/09	09/03/09	09/03/09
H18099-41	SB-4 (15')	<0.050	<0.050	<0.050	<0.300
H18099-42	SB-4 (20')	<0.050	<0.050	<0.050	<0.300
H18099-43	SB-4 (25')	<0.050	<0.050	<0.050	<0.300
H18099-44	SB-4 (30')	<0.050	<0.050	<0.050	<0.300
H18099-45	SB-4 (35')	<0.050	<0.050	<0.050	<0.300
H18099-46	SB-4 (40')	<0.050	<0.050	<0.050	<0.300
H18099-47	SB-4 (45')	<0.050	<0.050	<0.050	<0.300
H18099-48	SB-4 (50')	<0.050	<0.050	<0.050	<0.300
H18099-49	SB-4 (55')	<0.050	<0.050	<0.050	<0.300
H18099-50	SB-4 (56')	<0.050	<0.050	<0.050	<0.300
Quality Control		0.050	0.053	0.049	0.157
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	106	98.0	105
Relative Percent Difference		<1.0	<1.0	1.3	<1.0

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

09/08/09
Date

H18099 BTEX EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6^{0}C
Sample Received By: ML
Analyzed By: AB/HM/CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		08/28/09	08/28/09	08/27/09
H18099-1	SB-1 (5')	<10.0	<10.0	256
H18099-2	SB-1 (10')	<10.0	<10.0	864
H18099-3	SB-1 (15')	<10.0	<10.0	784
H18099-4	SB-1 (20')	<10.0	<10.0	432
H18099-5	SB-1 (25')	<10.0	<10.0	672
H18099-6	SB-1 (30')	<10.0	<10.0	96
H18099-7	SB-1 (35')	<10.0	<10.0	1,424
H18099-8	SB-1 (40')	<10.0	<10.0	528
H18099-9	SB-1 (45')	<10.0	<10.0	416
H18099-10	SB-1 (50')	<10.0	<10.0	256
Quality Control		510	453	490
True Value QC		500	500	500
% Recovery		102	90.6	98.0
Relative Percent Difference		1.1	3.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl$^-$: Std. Methods 4500-Cl$^-$B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

09/08/09
Date

H18099TCL EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: AB/HM/CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		09/01/09	09/01/09	08/27/09
H18099-11	SB-1 (55')	<10.0	<10.0	384
H18099-12	SB-1 (60')	<10.0	<10.0	128
H18099-13	SB-1 (65')	<10.0	<10.0	304
H18099-14	SB-2 (5')	<10.0	<10.0	256
H18099-15	SB-2 (10')	<10.0	12.3	720
H18099-16	SB-2 (15')	<10.0	<10.0	880
H18099-17	SB-2 (20')	<10.0	<10.0	880
H18099-18	SB-2 (25')	<10.0	<10.0	1,310
H18099-19	SB-2 (30')	<10.0	<10.0	704
H18099-20	SB-2 (35')	<10.0	<10.0	800
Quality Control		556	506	500
True Value QC		500	500	500
% Recovery		111	101	100
Relative Percent Difference		4.8	5.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

09/08/09
Date

H18099TCL EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: AB/HM/CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		09/01/09	09/01/09	08/28/09
H18099-21	SB-2 (40')	<10.0	<10.0	1,860
H18099-22	SB-2 (45')	<10.0	<10.0	416
H18099-23	SB-2 (50')	<10.0	<10.0	1,790
H18099-24	SB-2 (55')	<10.0	<10.0	96
H18099-25	SB-2 (60')	<10.0	<10.0	144
H18099-26	SB-2 (65')	<10.0	<10.0	336
H18099-27	SB-3 (5')	<10.0	<10.0	< 16
H18099-28	SB-3 (10')	<10.0	<10.0	16
H18099-29	SB-3 (15')	<10.0	<10.0	32
H18099-30	SB-3 (20')	<10.0	<10.0	176
Quality Control		490	439	490
True Value QC		500	500	500
% Recovery		98.0	87.8	98.0
Relative Percent Difference		0.5	0.6	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

09/08/09
Date

H18099TCL EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: AB/HM/CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		09/03/09	09/03/09	08/28/09
H18099-31	SB-3 (25')	<10.0	11.8	1,230
H18099-32	SB-3 (30')	<10.0	<10.0	784
H18099-33	SB-3 (35')	<10.0	<10.0	1,170
H18099-34	SB-3 (40')	<10.0	<10.0	896
H18099-35	SB-3 (45')	<10.0	<10.0	272
H18099-36	SB-3 (50')	<10.0	<10.0	480
H18099-37	SB-3 (55')	<10.0	<10.0	240
H18099-38	SB-3 (56')	<10.0	<10.0	240
H18099-39	SB-4 (5')	<10.0	<10.0	16
H18099-40	SB-4 (10')	<10.0	11.0	160
Quality Control		445	464	490
True Value QC		500	500	500
% Recovery		89.0	92.8	98.0
Relative Percent Difference		5.2	8.4	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

09/08/09
Date

H18099TCL EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 08/27/09
Reporting Date: 09/08/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: AB/HM/CK

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		09/05/09	09/05/09	08/28/09
H18099-41	SB-4 (15')	<10.0	<10.0	128
H18099-42	SB-4 (20')	<10.0	<10.0	160
H18099-43	SB-4 (25')	<10.0	<10.0	272
H18099-44	SB-4 (30')	<10.0	14.8	272
H18099-45	SB-4 (35')	<10.0	<10.0	304
H18099-46	SB-4 (40')	<10.0	<10.0	256
H18099-47	SB-4 (45')	<10.0	<10.0	304
H18099-48	SB-4 (50')	<10.0	<10.0	560
H18099-49	SB-4 (55')	<10.0	<10.0	672
H18099-50	SB-4 (56')	<10.0	<10.0	560
Quality Control		455	423	490
True Value QC		500	500	500
% Recovery		91.0	84.6	98.0
Relative Percent Difference		2.4	3.9	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

09/08/09
Date

H18099TCL EPI

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sect. 01, T22S, R37E
Project Reference	240031
EPI Sampler Name	Roger Boone/Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
1 H18099-	SB-1 (5')	G	1			X					X		26-Aug-09	9:02	X	X	X								
2	SB-1 (10')	G	1			X					X		26-Aug-09	9:04	X	X	X								
3	SB-1 (15')	G	1			X					X		26-Aug-09	9:06	X	X	X								
4	SB-1 (20')	G	1			X					X		26-Aug-09	9:07	X	X	X								
5	SB-1 (25')	G	1			X					X		26-Aug-09	9:12	X	X	X								
6	SB-1 (30')	G	1			X					X		26-Aug-09	9:17	X	X	X								
7	SB-1 (35')	G	1			X					X		26-Aug-09	9:20	X	X	X								
8	SB-1 (40')	G	1			X					X		26-Aug-09	9:21	X	X	X								
9	SB-1 (45')	G	1			X					X		26-Aug-09	9:23	X	X	X								
10	SB-1 (50')	G	1			X					X		26-Aug-09	10:05	X	X	X								

Sampler Relinquished: Roger Boone — 8/27/2009 Time 10:00 — Received By: Aaron Boone

Relinquished by: Aaron Boone — 8/27/2009 Time 10:45 — Received By: (lab staff) Kristy L Burt

Delivered by: — Sample Cool & Intact (Yes) No — Checked By: MCB

E-mail results to: ~~brett.culpit@apachecorp.com and natalie.gladden@apachecorp.com~~

Don't send to EPI - only Apache

e-mail: Alankane (alanjkane@comcast.net)

as per Natalie. 9/3/09 ck

6°C #26

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sect. 01, T22S, R37E
Project Reference	240031
EPI Sampler Name	Roger Boone/Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
H18099 - 11	SB-1 (55')	G	1			X					X		26-Aug-09	10:08	X	X	X								
12	SB-1 (60')	G	1			X					X		26-Aug-09	10:23	X	X	X								
13	SB-1 (65')	G	1			X					X		26-Aug-09	10:50	X	X	X								
14	SB-2 (5')	G	1			X					X		26-Aug-09	11:16	X	X	X								
15	SB-2 (10')	G	1			X					X		26-Aug-09	11:18	X	X	X								
16	SB-2 (15')	G	1			X					X		26-Aug-09	11:28	X	X	X								
17	SB-2 (20')	G	1			X					X		26-Aug-09	11:31	X	X	X								
18	SB-2 (25')	G	1			X					X		26-Aug-09	11:45	X	X	X								
19	SB-2 (30')	G	1			X					X		26-Aug-09	11:53	X	X	X								
20	SB-2 (35')	G	1			X					X		26-Aug-09	12:48	X	X	X								

Sampler Relinquished: Roger Boone	8/27/2009 Time 10:00	Received By: Jaron Boone
Relinquished by: Jaron Boone	8/27/2009 Time 10:45	Received By: (lab staff)
Delivered by:	Sample Cool & Intact (Yes) No	Checked By:

E-mail results to: brett.culpit@apachecorp.com and natalie.gladden@apachecorp.com

6°C #26

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sect. 01, T22S, R37E
Project Reference	240031
EPI Sampler Name	Roger Boone/Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH			
H18099- 21	SB-2 (40')	G	1			X					X		26-Aug-09	12:54	X	X	X								
22	SB-2 (45')	G	1			X					X		26-Aug-09	13:10	X	X	X								
23	SB-2 (50')	G	1			X					X		26-Aug-09	13:25	X	X	X								
24	SB-2 (55')	G	1			X					X		26-Aug-09	13:45	X	X	X								
25	SB-2 (60')	G	1			X					X		26-Aug-09	14:00	X	X	X								
26	SB-2 (65')	G	1			X					X		26-Aug-09	14:15	X	X	X								
27	SB-3 (5')	G	1			X					X		26-Aug-09	14:55	X	X	X								
28	SB-3 (10')	G	1			X					X		26-Aug-09	15:02	X	X	X								
29	SB-3 (15')	G	1			X					X		26-Aug-09	15:07	X	X	X								
30	SB-3 (20')	G	1			X					X		26-Aug-09	15:11	X	X	X								

Sampler Relinquished: Roger Boone	8/27/2009 Time 1000	Received By: Aaron Boone	E-mail results to: brett.culpit@apachecorp.com and natalie.gladden@apachecorp.com
Relinquished by: Aaron Boone	8/27/2009 Time 10:45	Received By: (lab staff)	
Delivered by:	Sample Cool & Intact Yes / No	Checked By: MCB	

6°C #26

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 *P.O. Box 1558, Eunice, NM 88231*
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sect. 01, T22S, R37E
Project Reference	240031
EPI Sampler Name	Roger Boone/Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
H18099-31	SB-3 (25')	G	1			X					X		26-Aug-09	15:25	X	X	X								
32	SB-3 (30')	G	1			X					X		26-Aug-09	15:33	X	X	X								
33	SB-3 (35')	G	1			X					X		26-Aug-09	15:56	X	X	X								
34	SB-3 (40')	G	1			X					X		26-Aug-09	16:02	X	X	X								
35	SB-3 (45')	G	1			X					X		26-Aug-09	16:11	X	X	X								
36	SB-3 (50')	G	1			X					X		26-Aug-09	16:16	X	X	X								
37	SB-3 (55')	G	1			X					X		26-Aug-09	16:34	X	X	X								
38	SB-3 (56')	G	1			X					X		26-Aug-09	16:37	X	X	X								
39	SB-4 (5')	G	1			X					X		26-Aug-09	16:56	X	X	X								
40	SB-4 (10')	G	1			X					X		26-Aug-09	17:00	X	X	X								

Sampler Relinquished: Roger Boone	8/27/2009 Time 10:00	Received By: Jaron Boone
Relinquished by: Jaron Boone	8/27/2009 Time 10:45	Received By: (lab staff) Misty Sublett
Delivered by:	Sample Cool & Intact (Yes) No	Checked By: MCAP

E-mail results to: brett.culpit@apachecorp.com and natalie.gladden@apachecorp.com

69C #20

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 *P.O. Box 1558, Eunice, NM 88231*
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sect. 01, T22S, R37E
Project Reference	240031
EPI Sampler Name	Roger Boone/Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
H18099- 41	SB-4 (15')	G	1			X					X		26-Aug-09	17:06	X	X	X								
42	SB-4 (20')	G	1			X					X		26-Aug-09	17:07	X	X	X								
43	SB-4 (25')	G	1			X					X		26-Aug-09	17:19	X	X	X								
44	SB-4 (30')	G	1			X					X		26-Aug-09	17:29	X	X	X								
45	SB-4 (35')	G	1			X					X		26-Aug-09	17:34	X	X	X								
46	SB-4 (40')	G	1			X					X		26-Aug-09	17:37	X	X	X								
47	SB-4 (45')	G	1			X					X		26-Aug-09	17:44	X	X	X								
48	SB-4 (50')	G	1			X					X		26-Aug-09	17:48	X	X	X								
49	SB-4 (55')	G	1			X					X		26-Aug-09	17:55	X	X	X								
50	SB-4 (56')	G	1			X					X		26-Aug-09	18:01	X	X	X								

Sampler Relinquished: Roger Boone	8/27/2009 Time 10:00	Received By: Aaron Boone	E-mail results to: brett.culpit@apachecorp.com and natalie.gladden@apachecorp.com
Relinquished by: Aaron Boone	8/27/2009 Time 10:40	Received By: (lab staff)	
Delivered by:	Sample Cool & Intact Yes / No	Checked By:	

6°C #20

CARDINAL LABORATORIES

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

December 18, 2009

Roger Boone
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18846, received by the laboratory on 12/10/09 at 9:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

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

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

Receiving Date: 12/10/09
Reporting Date: 12/17/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SEC. 01, T 22 S, R 37 E

Sampling Date: 12/08/09 & 12/09/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		12/16/09	12/16/09	12/10/09
H18846-1	MW-1 (10')	<10.0	<10.0	< 16
H18846-2	MW-1 (60')	<10.0	<10.0	64
H18846-3	MW-2 (10')	<10.0	<10.0	< 16
H18846-4	MW-2 (60')	<10.0	<10.0	96
H18846-5	MW-3 (10')	<10.0	<10.0	16
H18846-6	MW-3 (57')	<10.0	<10.0	96
Quality Control		462	446	500
True Value QC		500	500	500
% Recovery		92.4	89.2	100
Relative Percent Difference		6.0	13.2	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
Not accredited for GRO/DRO and Chloride.

Chemist

12/18/09
Date

H18846 TCL EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 12/10/09
Reporting Date: 12/11/09
Project Owner: APACHE CORPORATION (240031)
Project Name: WALTER LYNCH TANK BATTERY
Project Location: UL-F, SEC. 01, T22S, R37E

Sampling Date: 12/08/09 & 12/09/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3 °C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		12/10/09	12/10/09	12/10/09	12/10/09
H18846-1	MW-1 (10')	<0.050	<0.050	<0.050	<0.300
H18846-2	MW-1 (60')	<0.050	<0.050	<0.050	<0.300
H18846-3	MW-2 (10')	<0.050	<0.050	<0.050	<0.300
H18846-4	MW-2 (60')	<0.050	<0.050	<0.050	<0.300
H18846-5	MW-3 (10')	<0.050	<0.050	<0.050	<0.300
H18846-6	MW-3 (57')	<0.050	<0.050	<0.050	<0.300
Quality Control		0.054	0.048	0.047	0.141
True Value QC		0.050	0.050	0.050	0.150
% Recovery		108	96.0	94.0	94.0
Relative Percent Difference		<1.0	<1.0	<1.0	<1.0

METHODS: SW846-8021B. Reported on wet weight.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

12/18/09
Date

H18846 BTEX EPI

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain of Custody Form

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch Tank Battery
Location	UL-F, Sec. 01, T 22 S, R 37 E
Project Reference	240031
EPI Sampler Name	Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	TSS	pH	Conductivity	OTHER >>>TDS (EPA Method 150.1)	PAH	Heavy Metals (TCLP Method)		
H18846-1	1	MW-1 (10')	G	1			X					X		08-Dec-09	10:35	X	X	X								
-2	2	MW-1 (60')	G	1			X					X		08-Dec-09	11:20	X	X	X								
-3	3	MW-2 (10')	G	1			X					X		08-Dec-09	14:00	X	X	X								
4	4	MW-2 (60')	G	1			X					X		08-Dec-09	15:00	X	X	X								
-5	5	MW-3 (10')	G	1			X					X		09-Dec-09	9:17	X	X	X								
-6	6	MW-3 (57')	G	1			X					X		09-Dec-09	9:49	X	X	X								
	7																								
	8																								
	9																								
	10																								

Sampler Relinquished: In Hernandez	12/10/09 Time 6:40 Am	Received By: Rick Garcia
Relinquished by: Rick Garcia	12/10/09 Time 9:30a	Received By: (lab staff) Misty LeDent
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By: MCBB

E-mail results to: natalie.gladden@apachecorp.com

3C #26

CARDINAL LABORATORIES

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

December 23, 2009

Roger Boone
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18872, received by the laboratory on 12/14/09 at 2:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

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

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

Receiving Date: 12/14/09
Reporting Date: 12/23/09
Project Owner: 240031 (APACHE)
Project Name: WALTER LYNCH TB
Project Location: UL-F, SEC. 01, T 22 S, R 37 E

Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 2.5°C
Sample Received By: ML
Analyzed By: JM

TCLP RCRA METALS

LAB NO.	SAMPLE ID	As (mg/L)	Ag (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Hg (mg/L)	Se (mg/L)
ANALYSIS DATE:		12/23/09	12/23/09	12/23/09	12/23/09	12/23/09	12/23/09	12/17/09	12/23/09
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H18822-1	MW-1A	<0.10	<0.01	<0.01	<0.01	<0.01	<0.05	<0.0002	<0.20
H18822-3	MW-2A	<0.10	<0.01	<0.01	<0.01	<0.01	<0.05	0.0002	<0.20
H18822-5	MW-3A	<0.10	<0.01	<0.01	<0.01	<0.01	<0.05	0.0003	<0.20
Quality Control		5.04	0.52	2.49	2.50	2.58	5.19	0.0020	10.2
True Value QC		5.00	0.50	2.50	2.50	2.50	5.00	0.0020	10.0
% Recovery		101	104	100	100	103	104	100	102
Relative Standard Deviation		1.7	0.2	0.5	<0.1	1.0	0.2	9.5	0.2
METHODS: EPA 600/4-91/010,1311		200.7	200.7	200.7	200.7	200.7	200.7	245.1	200.7

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Chemist

12/23/09
Date

H18872TM EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 12/14/09
Reporting Date: 12/18/09
Project Number: 240031 (APACHE)
Project Name: WALTER LYNCH TB
Project Location: UL-F, SEC. 01, T 22 S, R 37 E

Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 2.5°C
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/L)	SO_4 (mg/L)	TDS (mg/L)	pH (s.u.)
Analysis Date:		12/16/09	12/16/09	12/16/09	12/16/09
H18872-1	MW-1A	680	283	1,720	7.38
H18872-3	MW-2A	1,980	310	3,680	7.28
H18872-5	MW-3A	610	190	1,400	7.66
Quality Control		500	38.8	NR	7.02
True Value QC		500	40.0	NR	7.00
% Recovery		100	97.1	NR	100
Relative Percent Difference		< 0.1	1.8	1.8	0.1
METHOD: Standard Methods, EPA		4500-ClB	375.4	160.1	150.1

Not accredited for Chloride, Sulfate, TDS AND pH.

Chemist

12/23/09
Date

H18872 EPI

CARDINAL LABORATORIES

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

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

Receiving Date: 12/14/09
Reporting Date: 12/18/09
Project Number: APACHE CORPORATION(240031)
Project Name: WALTER LYNCH TB
Project Location: UL-F, SEC.01, T 22 S, R 37 E

Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 2.5°C
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/17/09	12/17/09	12/17/09	12/17/09
H18872-2	MW-1V	<0.001	<0.001	<0.001	<0.003
H18872-4	MW-2V	<0.001	<0.001	<0.001	<0.003
H18872-6	MW-3V	<0.001	<0.001	<0.001	<0.003
Quality Control		0.050	0.047	0.047	0.144
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	94.0	94.0	96.0
Relative Percent Difference		6.9	8.3	7.5	8.2

METHOD: EPA SW-846 8021 B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

12/23/09
Date

H18872 WB EPI

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	Roger Boone
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	Apache Corporation
Facility Name	Walter Lynch TB
Location	UL-F, Sec. 01, T 22 S, R 37 E
Project Reference	240031
EPI Sampler Name	Kirt Tyree

Remit Invoice To:

Apache Corporation
Attn: Ms. Natalie Gladden
P.O. Box 1849
Eunice, New Mexico 88231

ANALYSIS REQUEST

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO4=)	pH	Conductivity	OTHER >>>TDS (EPA Method 150.1)	PAH	Heavy Metals (TCLP Method)		
H18872-1	1	MW-1A	G	2	X							X		11-Dec-09	8:47			X	X	X		X		X		
-2	2	MW-1V	G	4	X						X	X		11-Dec-09	8:47	X										
-3	3	MW-2A	G	2	X							X		11-Dec-09	11:26			X	X	X		X		X		
-4	4	MW-2V	G	4	X						X	X		11-Dec-09	11:26	X										
-5	5	MW-3A	G	2	X							X		11-Dec-09	14:45			X	X	X		X		X		
-6	6	MW-3V	G	4	X						X	X		11-Dec-09	14:45	X										
	7																									
	8																									
	9																									
	10																									

Sampler Relinquished: Kirt Tyree	12/14/09 Time 0900	Received By: Jason Boone	E-mail results to: natalie.gladden@apachecorp.com
Relinquished by: Jason Boone	12/14/09 Time 2:25	Received By: (lab staff)	NOTE: A = Amber Bottles and V = Vials
Delivered by:	Sample Cool & Intact (Yes) No	Checked By:	

2.5°C #26

Appendix IV

Field Measurement/Observation Log

Environmental Plus, Inc
P O Box 1558
2100 Avenue O
Eunice, NM 88231
(575) 394-3481
(575) 394-2601 (fax)

Field Measurement/Observation Log

Page No __1___ of __1__

COMPANY: Apache Corporation

PROJECT NAME: Walter Lynch Nos. 4, 5, 6, 7 & 8 Tank Battery

PROJECT NUMBER: EPI Ref. #240031

PROJECT MANAGER: Roger Boone

FIELD TECHNICIAN: Kurt Tyree

DATE: 12/11/09

COMMENTS

WELL ID	TOTAL WELL DEPTH (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	HEIGHT WATER COLUMN (ft)	PSH THICKNESS (ft)	WELL FACTOR 2"=0.163 4"=0.653 6"=1.469	CALC. WELL VOLUME (gal)	# OF WELL VOLUMES PURGED	TOTAL PURGED (gal)	Temp (°C)	pH	Cond (µs)	TIME/DATE WELL SAMPLED/GAUGED (circle one)	SAMPLE CHARACTERISTICS (odor, color, sheen, etc.)
MW - 1	69.10	- -	55.83	13.27	- -	0.163	2.16	6.48	>8	- -	- -	- -	12/11/09 @ 8:47 am	Cloudy with sand settling out
MW - 2	72.45	- -	57.83	14.62	- -	0.163	2.38	7.14	>8	- -	- -	- -	12/11/09 @ 11:26 am	Cloudy with sand settling out
MW - 3	69.83	- -	55.15	14.68	- -	0 163	2.39	7.17	>8	- -	- -	- -	12/11/09 @ 14.45 pm	Cloudy with sand settling out