

FINAL CLOSURE REPORT

SELBY MAVEETY #3 FLOWLINE

EPI REF: 240015

NMOCD REF. 1RP#1032

UL-L (NW¼ OF THE SW¼) OF SECTION 35 T19S R36E

~4 MILES WEST OF MONUMENT

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 36' 49.62"

LONGITUDE: W 103° 19' 52.26"

JUNE 2007

PREPARED BY:

ENVIRONMENTAL PLUS, INC.
2100 AVENUE O
EUNICE, NEW MEXICO 88231

PREPARED FOR:





Distribution List

Apache Corporation – Selby Maveety #3 Flowline

NMOCD 1RP#1032; EPI Ref: 240015

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STANDARD OF CARE

Closure Report

Selby Maveety #3 Flowline

(NMOCD 1RP#1032; EPI Ref. #240015)

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February, 1993) and Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan*. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by:

Brandon Farrar
Environmental Consultant

Date

6/21/07

This report was reviewed by:

David P. Duncan
Civil Engineer

Date

6-21-07



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Final NMOCD Form C-141



1.0 PROJECT SYNOPSIS

Site Specific:

- ♦ **Company Name:** Apache Corporation
- ♦ **Facility Name:** Selby Maveety #3 Flowline
- ♦ **Project Reference:** NMOCD Ref. 1RP#1032; EPI Ref. #240015
- ♦ **Company Contacts:** Guinn Burks
- ♦ **Site Location:** WGS84 N32° 36' 49.62"; W103° 19' 52.26"
- ♦ **Legal Description:** Unit Letter-L (NW¼ of the SW¼), Section 35, T 19S, R 36E
- ♦ **General Description:** Approximately 4-miles west of Monument, New Mexico
- ♦ **Elevation:** 3,615-ft amsl
- ♦ **Land Ownership:** DLD Resources, Inc.
- ♦ **EPI Personnel:** Project Consultant – David Duncan

Release Specific:

- ♦ **Product Released:** Crude Oil and Produced Water
- ♦ **Volume Released:** 100 bbls
- ♦ **Volume Recovered:** 70 bbls
- ♦ **Time of Occurrence:** September 7, 2006
- ♦ **Time of Discovery:** September 7, 2006 @ 3:00 p.m.
- ♦ **Release Source:** 4" steel pipe line
- ♦ **Initial Surface Area Affected:** ~2,900-ft²

Remediation Specific:

- ♦ **Final Vertical extent of contamination:** 28-ft below ground service (bgs)
- ♦ **Depth to Ground Water:** ~48-ft
- ♦ **Water wells within 1,000-ft:** One (1)
- ♦ **Private domestic water sources within 200-ft:** None
- ♦ **Surface water bodies within 1,000-ft:** None
- ♦ **NMOCD Site Ranking Index:** 40 points
- ♦ **Remedial goals for Soil:** TPH – 100 mg/Kg; BTEX – 50 mg/Kg; Benzene – 10 mg/Kg; Chloride – 250 mg/Kg
- ♦ **RCRA Waste Classification:** Exempt
- ♦ **Remediation Option Selected:** a) Highly contaminated soil above NMOCD site remedial goals was excavated and disposed at Sundance Services, Inc., South Monument Surface Waste Facility, LLC, and Controlled Recovery Inc. for treatment; b) laboratory analyses confirmed removal of most highly impacted soils above NMOCD remedial goals in sidewalls and bottom; c) backfilled excavation with caliche and topsoil; d) graded area for natural drainage; f) seeded area with blend preferred by the landowner.
- ♦ **Disposal Facilities:** Sundance Services, Inc.; Controlled Recovery Inc.; South Monument Waste Facility
- ♦ **Volume disposed:** ~ 7,674 yds³
- ♦ **Project Completion Date:** April 10, 2006



2.0 SITE AND RELEASE INFORMATION

2.1 ***Describe land use and pertinent geographic features within 1,000 feet of site***
Land surrounding the area is rangeland in native grasses utilized for livestock grazing along with oilfield operations.

2.2 ***Identify and describe the source or suspected source(s) of the release.***
4-inch steel pipeline leaked crude oil and produced water.

2.3 ***What is the volume of the release? (if known):*** ~100 barrels of crude oil and produced water

2.4 ***What is the volume recovered? (if any):*** ~70 barrels of crude oil and produced water

2.5 ***When did the release occur? (if known):*** September 7, 2006

2.6 ***Geological Description***

According to "Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico, A. Nicholson, Jr. and A. Clebsch, Jr., United State Geological Survey, 1961," (USGS Report #6) the Ogallala formation mantles the High Plains Physiographic Region in the area of Lea County west of Hobbs, New Mexico, where it ranges in thickness from 100 to 250 feet. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet because of the very irregular Triassic erosion surface which underlies it. The Ogallala sands are overlain with an indurated and fractured calcium carbonate caliche cap up to 59 feet thick.

2.7 ***Ecological Description***

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians, and birds are numerous and typical of the area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.8 ***Area Groundwater***

Information obtained from the New Mexico Office of the State Engineer's website and United States Geological Survey (USGS) database indicate groundwater in the unconfined aquifer at this site was projected to be ~48-ft bgs.

2.9 ***Area Water Wells***

One well exists within a 1,000-foot radius of the release site. Seven (7) wells are located within a one-mile radius of the release site (reference *Figure 2*).

2.10 ***Area Surface Water Features***

No surface water features exist within a 1,000-foot radius of the point of release (reference *Figure 2*).



3.0 NMOCD SITE RANKING

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- ♦ *Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)*
- ♦ *Unlined Surface Impoundment Closure Guidelines (February, 1993)*
- ♦ *Pit and Below-Grade Tank Guidelines (November, 2004)*

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- ♦ *Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-water);*
- ♦ *Wellhead Protection Area (i.e., distance from fresh water supply wells);*
- ♦ *Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).*

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is forty (40) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water	
Depth to GW <50 feet: 20 points	If <1,000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points	
Depth to GW 50 to 99 feet: 10 points		200-1,000 horizontal feet: 10 points	
Depth to GW >100 feet: 0 points	If >1,000' from water source, or; >200' from private domestic water source: 0 points	>1,000 horizontal feet: 0 points	
Site Rank (1+2+3) = 20 + 20 + 0 = 40 points			
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Ranking Score	20 or >	10	0
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

¹ A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.



4.0 **EXCAVATED SOIL INFORMATION**

4.1 *Was soil excavated for off-site treatment or disposal?* ☒ **Yes** ☐ **No**

Date excavated: 9/15/06 through 10/5/06; 2/27/07 through 4/4/07

Total volume removed: ~ 7,674 yds³

4.2 *Indicated soil treatment type:*

<input checked="" type="checkbox"/>	Disposal
<input checked="" type="checkbox"/>	Land Treatment
<input type="checkbox"/>	Composting/Biopiling
<input type="checkbox"/>	Other ()

Name and location of treatment/disposal facility:

Disposal – Sundance Services, Inc., Lea County, NM (3,000 yds³);
Controlled Recovery, Inc., Lea County, NM (1,220 yds³)

Land Treatment – South Monument Surface Waste Facility, LLC, Lea County,
NM (3,454 yds³)



5.0 SAMPLING INFORMATION

5.1 *Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.*

Organic Vapor Concentrations – A portion of each soil sample collected was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to ~70° F, they were analyzed for organic vapors utilizing a MiniRae® Photoionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp.

Chloride Concentrations – A La Motte Chloride Test Kit (titration method) was utilized for field analyses of chloride concentration.

5.2 *Briefly describe the soil analytical sampling and handling procedures used.*

Soil samples from the excavation were collected utilizing hand and/or mechanical excavation equipment to gather the sample from at least 6-inches below/within the surface of the excavation. Prior to the collection of each sample, the sampling instrument was decontaminated with an Alconox solution.

Upon collection of each sample, a portion was immediately placed in a laboratory provided container, labeled and set on ice for transport to an independent laboratory for quantification of Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and chloride concentrations.

5.3 *Discuss sample locations and provide rationale for their locations.*

From September 15 – 21, 2006, five (5) soil samples were taken from three (3) Test Trenches within the release to delineate vertical/horizontal extent of impacted soil. Soil samples were collected at 5-ft vertical intervals to a depth of 20-ft bgs (Reference *Figure 4*).

From September 27 – October 2, 2006, thirteen (13) soil samples were collected from sidewalls within the release area to delineate vertical/horizontal extent of impacted soil (Reference *Figure 4*).

To further define vertical extent of impacted soil, three (3) soil borings were advanced on October 12 and 16, 2006 in the east, center and west sectors of the floor of the excavation. Soil samples were collected at 5-ft vertical intervals to a depth of 33-ft bgs. It was determined soils impacted above NMOC remedial goals extended to a depth of 28-ft bgs in the east sector, to a depth of 20-ft bgs in the center sector and did not exceed 8-ft bgs in the west sector of the excavation (Reference *Figure 4*).

From March 8 – 30, 2007 forty-three (43) soils samples were collected from various test trenches and sample points throughout the center and east sectors of the release area to delineate vertical/horizontal extent of impacted soil (Reference *Figure 5*).

On April 3, 2007, two (2) soil samples were collected from various sample points within the excavation to delineate vertical/horizontal extent of impacted soil.



6.0 ANALYTICAL RESULTS

6.1 *Describe the vertical and horizontal extent and magnitude of soil contamination.*

Laboratory analytical results for five (5) soil samples collected from September 15 – 21, 2006 indicated TPH concentrations ranged from 10 mg /Kg [(WBH-10' @ 10-ft bgs), (WBH-15' @ 15-ft bgs)] to 110 mg/Kg (CBH-20' @ 20-ft bgs). BTEX constituents were below remedial threshold goals. Reported chloride concentrations ranged from 32 mg/Kg (CBH-20' @ 20-feet bgs) to 384 mg/Kg (WBH-20 @ 20-feet bgs) (Reference *Table 3*).

Laboratory analytical results for thirteen (13) soil samples collected from September 27 – October 2, 2006 indicated TPH and BTEX constituents were below remedial threshold goals. Reported chloride concentrations ranged from 10 mg /Kg [(SW3-3' @ 3-ft bgs), (SW4-3' @ 3-ft bgs), (SW8-3' @ 3-ft bgs)] to 112 mg/Kg (SW6-3' @ 3-ft bgs) (Reference *Table 3*).

Laboratory analytical results for soil boring samples collected from October 12 - 16, 2006 indicated chloride concentrations ranged from 160 mg/Kg [(SB1 @ 33-ft bgs), (SB-2 @ 13-ft bgs), (SB-2 @ 18-ft bgs), (SB-2 @ 23-ft bgs) to 600 mg/Kg (SB1 @ 13-feet bgs) (Reference *Table 2*).

Laboratory analytical results for forty-three (43) soil samples collected from March 8 – 30, 2007 indicated chloride concentrations ranged from 16 mg/Kg (SW-8 @ 22-ft bgs)) to 688 mg/Kg (SW-15 @ 19-feet bgs) (Reference *Table 3*).

Laboratory analytical results for two (2) soil samples collected on April 3, 2007 indicated chloride concentrations ranged from 176 mg/Kg (SW-11D @ 27-ft bgs) to 464 mg/Kg (SW-15D @ 19-ft bgs) (Reference *Table 3*).

6.2 *Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?*

☐ yes ☒ no

If yes, attach a site map identifying extent(s) of surface soil contamination.

Not applicable.



7.0 **DISCUSSION**

7.1 ***Discuss the risks associated with the remaining soil contamination:***

A background test trench was excavated approximately twenty (20) feet south of the release excavation to a depth of eight (8) feet bgs. Chloride concentrations of 464 mg/Kg existed at this depth. Using this concentration as bench mark criteria, impacted soil was excavated until chloride concentrations were at or below this parameter. Hence, chloride impacted soil remaining in-situ should not be capable of contaminating groundwater above NMWQCC Groundwater Standards of 250 mg/L.

7.2 ***Discuss the risks associated with the impacted groundwater:*** Not applicable

7.3 ***Discuss other concerns not mentioned above:*** Not applicable



8.0 CONCLUSIONS AND RECOMMENDATIONS

- 8.1 *Recommendation for the site:*
- ☒ *Site Closure*
☐ *Additional Groundwater Monitoring*
☐ *Corrective Action*

8.2 *Base the recommendation above on Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.*

Most chloride impacted soils were excavated and transported to Sundance Services, Inc. and Controlled Recovery, Inc. for disposal. Less impacted soils were transported to South Monument Surface Waste Facility for treatment. Laboratory analyses confirmed removal of highly impacted soils above NMOCD remedial goals in sidewalls and bottom of the excavation. In an effort to extract chloride impacted soil, the release area was excavated to a depth of 28-30 feet bgs in some areas. The excavation was backfilled with approximately 4,928 yds³ of caliche and 2,220 yds³ of topsoil. The entire disturbed area was graded for natural drainage and reseeded with a blend preferred by the landowner.

- 8.3 *If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.* Not applicable
- 8.4 *If corrective action is recommended, provide a conceptual approach.*
Not Applicable

FIGURES

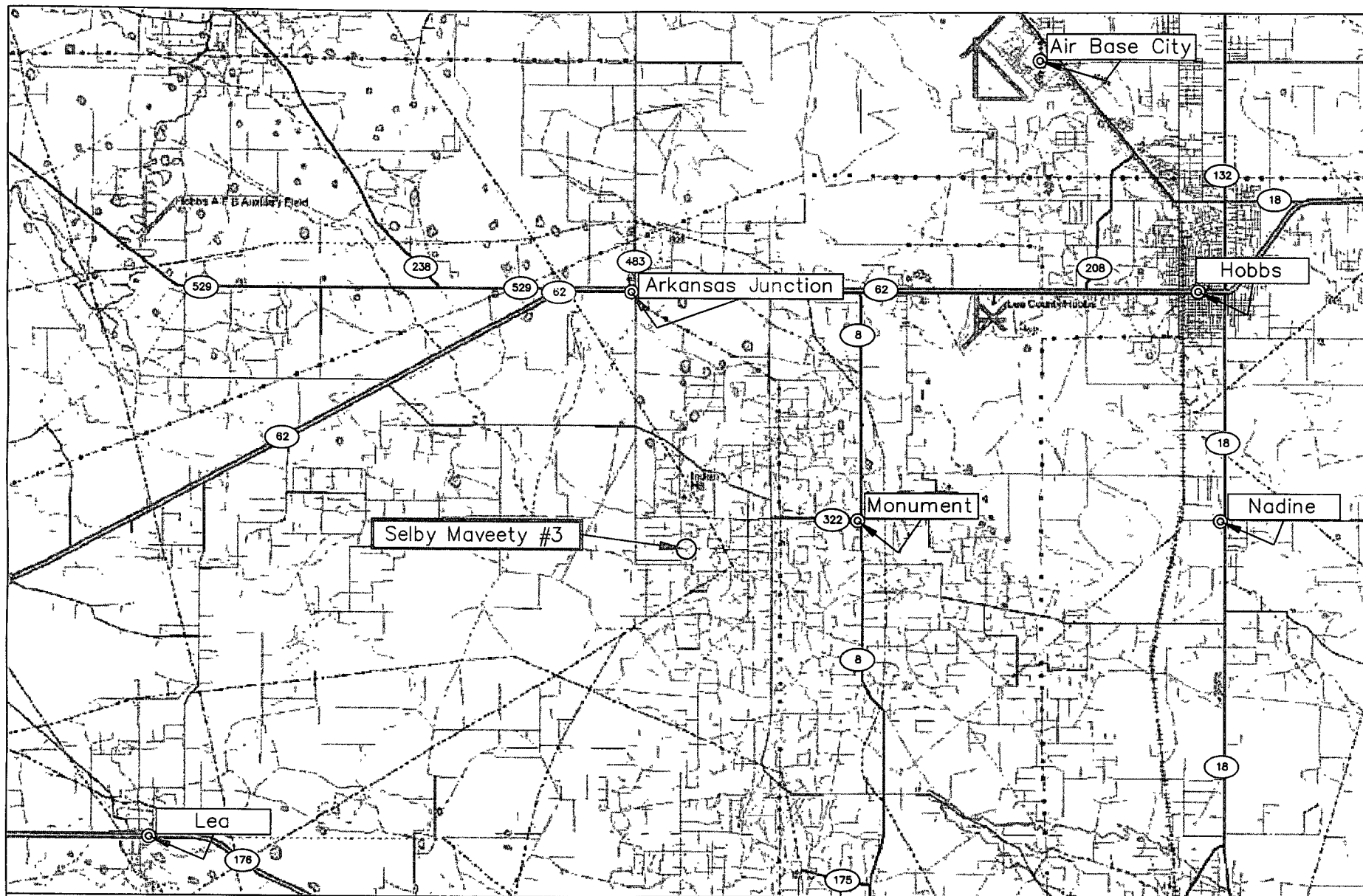
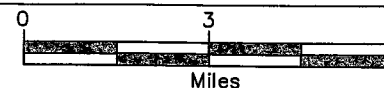


Figure 1
Area Map
Apache Corporation
Selby Maveety #3

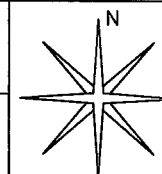
Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 35, T19S, R36E
N 32° 36' 49.62" W 103° 19' 52.26"
Elevation: 3,615 feet amsl

DWG By: Daniel Dominguez
September 2006

REVISED:



SHEET
1 of 1



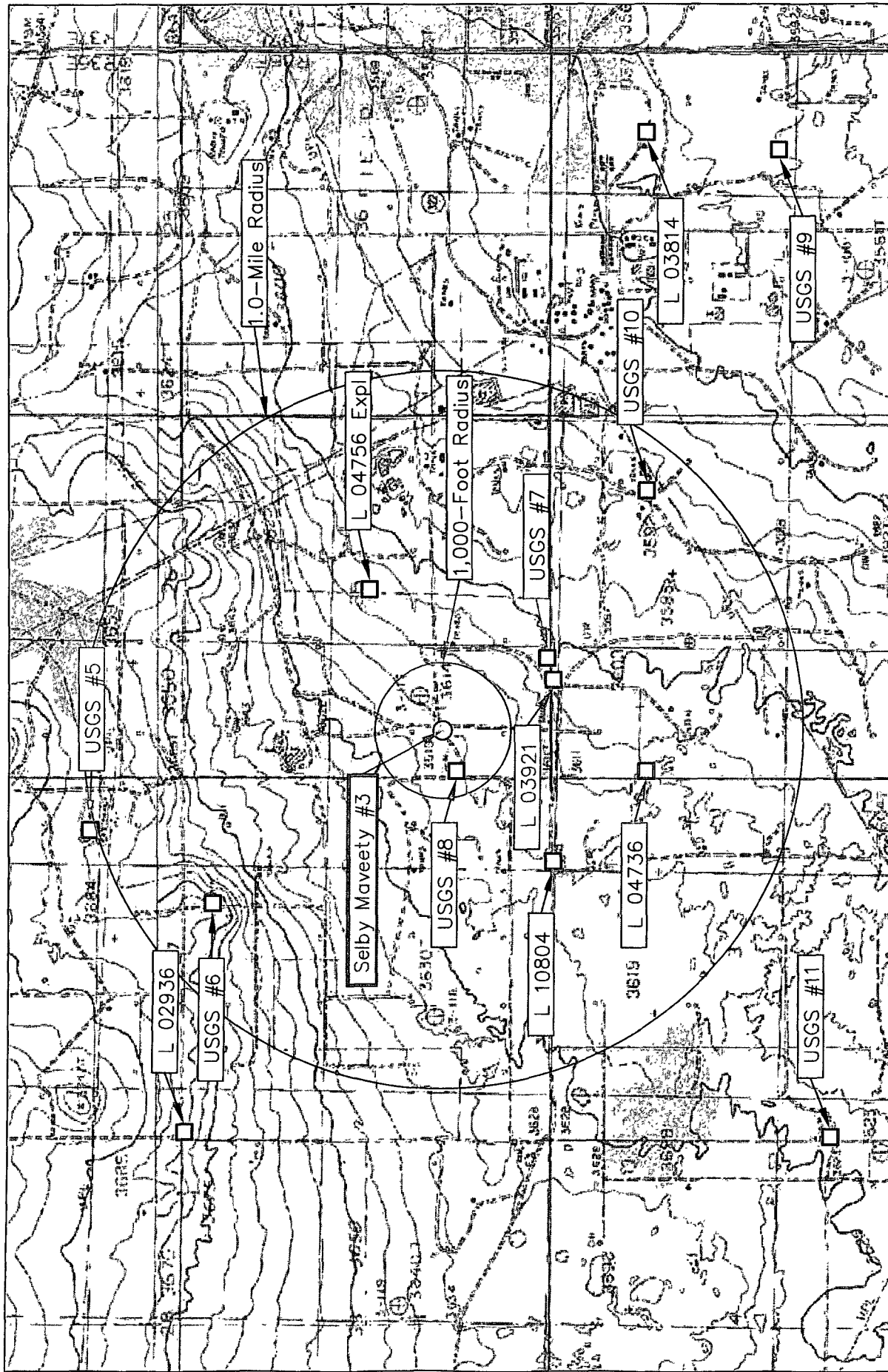
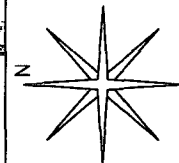
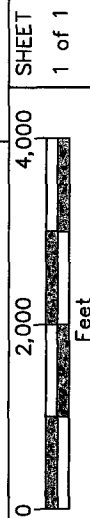


Figure 2
Site Location Map
Apache Corporation
Selby Maveety #3

Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 35, T19S, R36E
N 32° 36' 49.62" W 103° 19' 52.26"
Elevation: 3,615 feet amsl

DWG By: Daniel Dominguez
September 2006

REVISED:



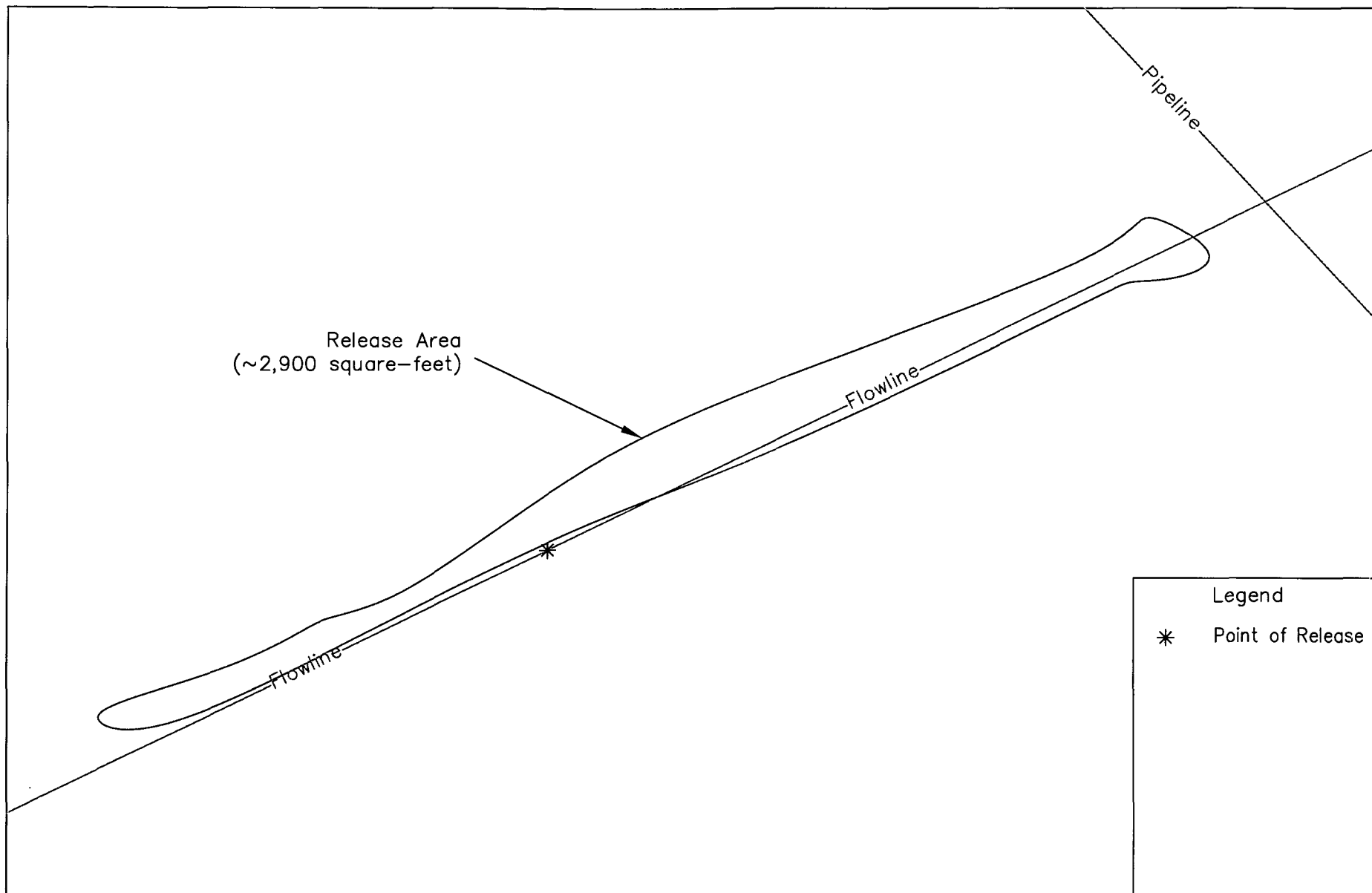
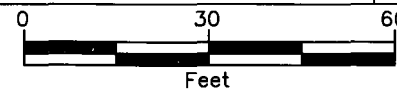


Figure 3
Site Map
Apache Corporation
Selby Maveety #3

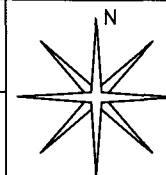
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Elevation: 3,615 feet amsl

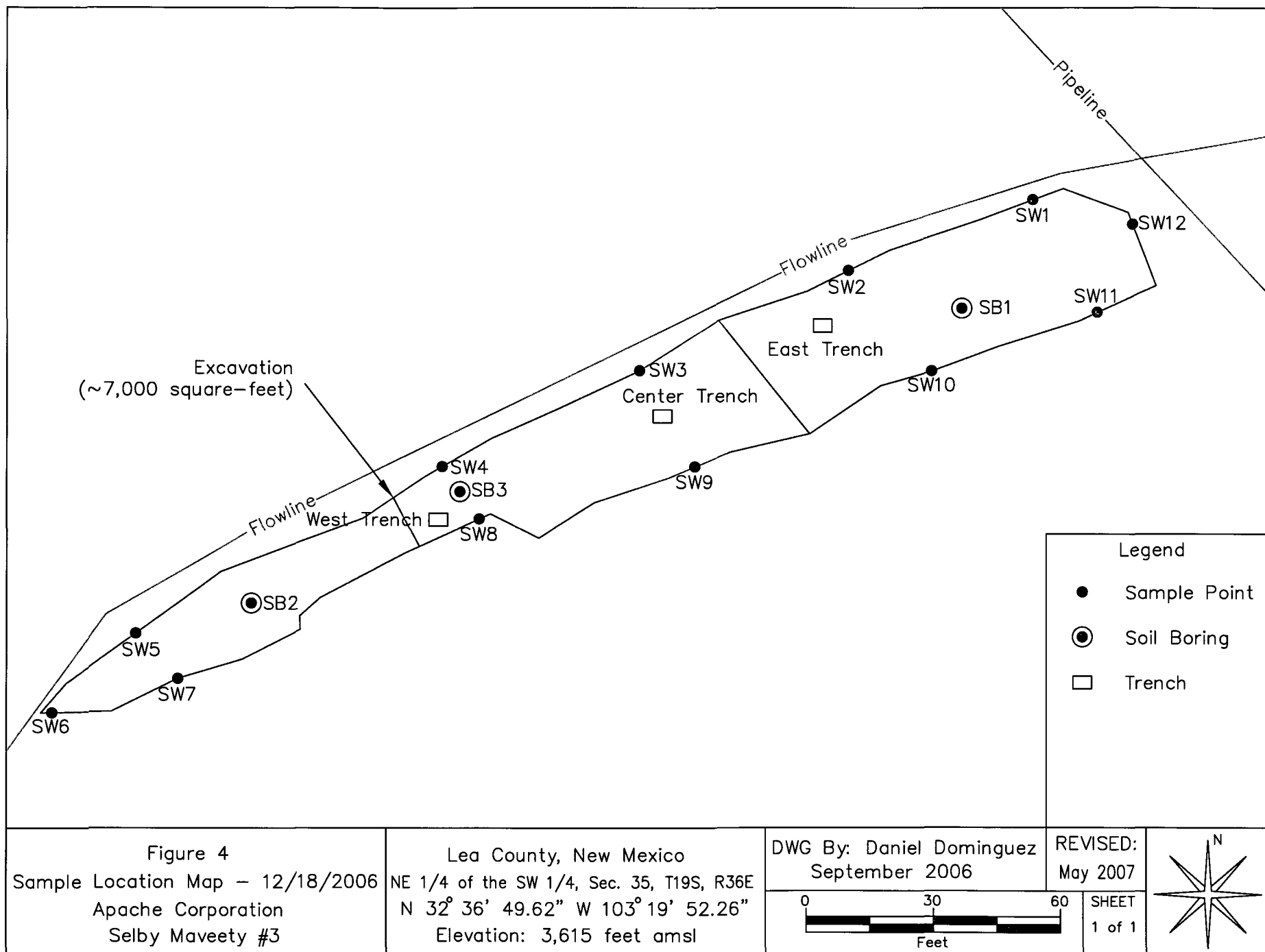
DWG By: Daniel Dominguez
September 2006

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1 of 1





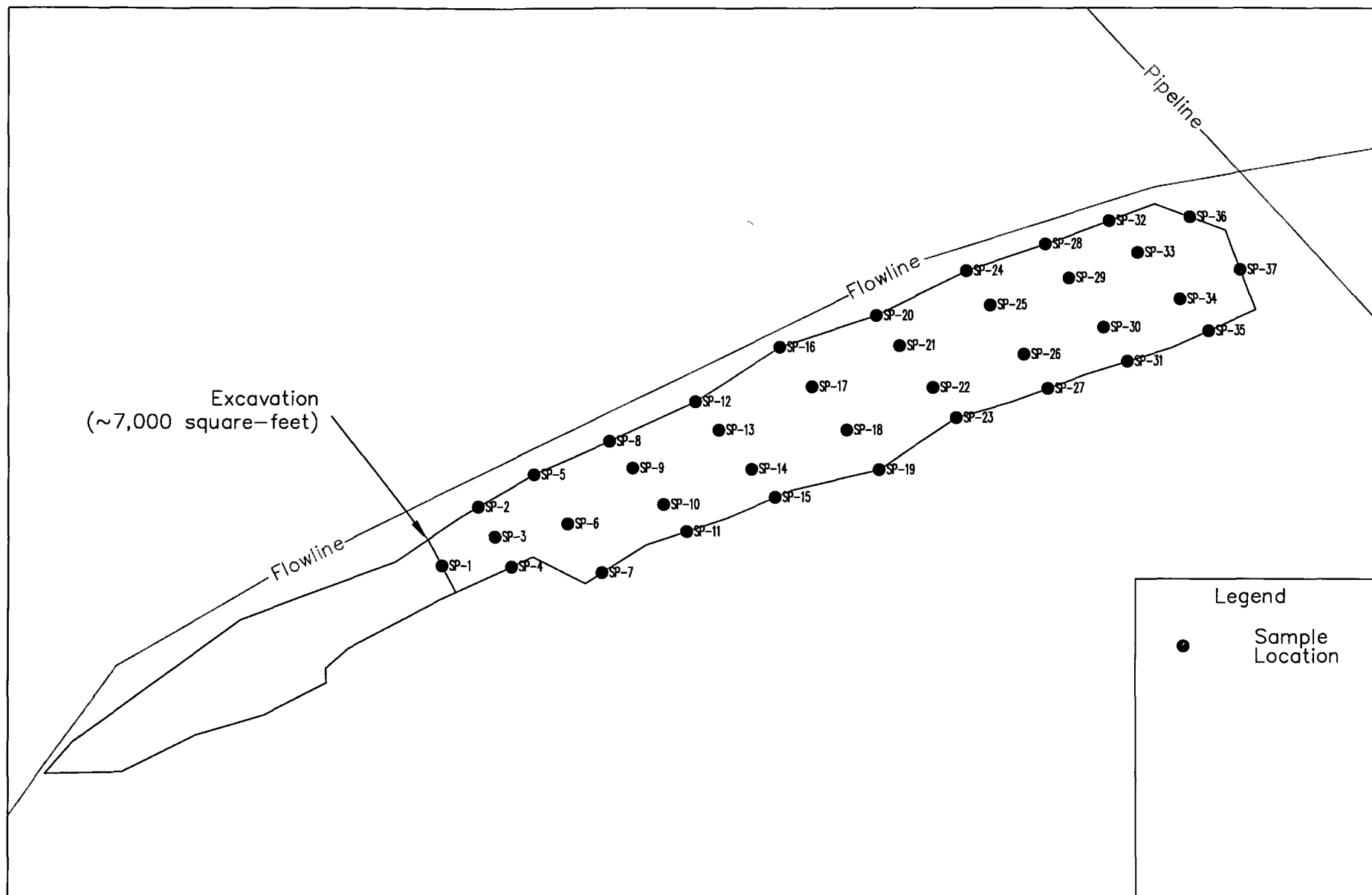
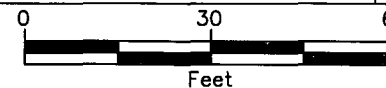


Figure 5
Sample Map
Apache Corporation
Selby Maveety #3

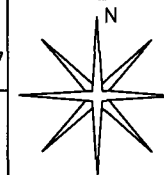
Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 35, T19S, R36E
N 32° 36' 49.62" W 103° 19' 52.26"
Elevation: 3,615 feet amsl

DWG By: Daniel Dominguez
September 2006

REVISED:
March 2007



SHEET
1 of 1



TABLES

TABLE 1

Well Data

Apache Corporation - Selby Maveety #3 (Ref. # 240015)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water
											(ft bgs)
L 03921	3	T. E. MUSICK	STK	19S	36E	35 3 4	N32° 36' 33.91"	W103° 19' 43.70"	18-Jul-58	3,604	50
L 04756 EXPL	3	CLIMAX CHEMICAL COMPANY	EXP	19S	36E	35 2	N32° 37' 0.08"	W103° 19' 28.22"	09-Dec-61	3,608	70
L 02936	3	VERNA DRILLING CO.	PRO	19S	36E	27 3 3	N32° 37' 26.26"	W103° 21' 0.92"	15-Jul-55	3,685	28
L 10804	8	TEXAS-NEW MEXICO PIPELINE CO.	POL	19S	36E	34 4 4	N32° 36' 33.90"	W103° 20' 14.61"	16-Sep-97	3,615	50
L 03814	3	W. C. BYRD	DOM	20S	36E	1 2 2 2	N32° 36' 20.84"	W103° 18' 11.05"	04-Sep-58	3,572	40
L 04736	3	CLIMAX CHEMICAL COMPANY	DOM	20S	36E	2 1 1	N32° 36' 20.73"	W103° 19' 59.18"	21-Oct-61	3,610	92
USGS #5				19S	36E	27 4 2 3			09-Jan-86	3,681	19.89
USGS #6				19S	36E	34 2 1 2			26-Mar-91	3,680	18.42
USGS #7				19S	36E	35 3 4 3			26-Mar-91	3,602	37.36
USGS #8				19S	36E	35 3 1 3			22-Jan-96	3,615	47.74
USGS #9				20S	36E	1 4 1 2			11-Apr-68	3,565	26.28
USGS #10				20S	36E	2 2 4 1			13-Feb-81	3,586	27.1
USGS #11				20S	36E	3 3 3 1			30-Jan-91	3,623	38.6
USGS #1				19S	36E	25 1 1 2			18-Mar-54	3,570	16.01R
USGS #2				19S	36E	25 1 2 3			01-Mar-61	3,571	62.73
USGS #3				19S	36E	26 2 2 4			07-May-54	3,650	6.72
USGS #4				19S	36E	26 2 4 2			25-Mar-91	3,650	14.09

^A = In acre feet per annum^B = Elevation interpolated from USGS topographical map based on referenced location.

STK = Livestock watering

EXP = Exploration

PRO = Prospecting or development of natural resource

POL = Pollution control well

DOM = Domestic one household

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

Shaded areas indicate wells not shown on Figure 2

TABLE 2
Summary of Soil Boring Soil Sample Laboratory Analytical Results

Apache Corporation

Selby Maveety #3 Flowline (Ref.# 240015)

Sample I.D.	Depth (feet)	Soil Status	Lithology	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SB-1	13	in-situ	Caliche	--	--	12-Oct-06	--	--	--	--	--	--	--	--	600
	18	in-situ	Caliche	--	--	12-Oct-06	--	--	--	--	--	--	--	--	560
	23	in-situ	Sand/Rock	--	--	12-Oct-06	--	--	--	--	--	--	--	--	480
	28	in-situ	Sand/Rock	--	--	12-Oct-06	--	--	--	--	--	--	--	--	240
	33	in-situ	Sand/Rock	--	--	12-Oct-06	--	--	--	--	--	--	--	--	160
SB-2	13	in-situ	Caliche	--	--	16-Oct-06	--	--	--	--	--	--	--	--	160
	18	in-situ	Caliche	--	--	16-Oct-06	--	--	--	--	--	--	--	--	160
	23	in-situ	Sand/Rock	--	--	16-Oct-06	--	--	--	--	--	--	--	--	160
SB-3	13	in-situ	Caliche	--	--	16-Oct-06	--	--	--	--	--	--	--	--	480
	18	in-situ	Caliche	--	--	16-Oct-06	--	--	--	--	--	--	--	--	300
	23	in-situ	Sand/Rock	--	--	16-Oct-06	--	--	--	--	--	--	--	--	240
	28	in-situ	Sand/Rock	--	--	16-Oct-06	--	--	--	--	--	--	--	--	240
NMOCD Remedial Thresholds							10				50			100	250 ²

Bolded values are in excess of NMOCD Remediation Thresholds

¹ Estimated concentration, analyte detected below method detection limits

² Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L

Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

Apache Corporation
Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

TABLE 3
Soil Sample Field Analyses and Laboratory Analytical Results
Apache Corporation
Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

Selby Maveety #3 Flowline (EPI Ref.# 240015)[illegible]

TABLE 3

Summary of Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

Selby Maveety #3 Flowline (EPI Ref.# 240015)

[illegible]

TABLE 3

[illegible]

TABLE 3
Summary of Soil Sample Field Analyses and Laboratory Analytical Results
Apache Corporation
Selby Maveety #3 Flowline (EPI Ref.# 240015)

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)
SW-15A	19	Excavated	02-Apr-07	--	19	--	--	--	--	--	--	--	--	--
SW-11B	27	Excavated	03-Apr-07	--	840	--	--	--	--	--	--	--	--	--
SW-15B	19	Excavated	03-Apr-07	--	1,120	--	--	--	--	--	--	--	--	--
SW-11C	27	Excavated	03-Apr-07	--	880	--	--	--	--	--	--	--	--	--
SW-15C	19	Excavated	03-Apr-07	--	1,120	--	--	--	--	--	--	--	--	--
SW-11D	27	In-situ	03-Apr-07	--	400	--	--	--	--	--	--	--	--	176
SW-15D	19	In-situ	03-Apr-07	--	480	--	--	--	--	--	--	--	--	464
NMOCD Remedial Thresholds				100		10				50			100	250

Bolded values are in excess of NMOCD Remediation Threshold Goals

SP = Sample Point

-- = Not Analyzed

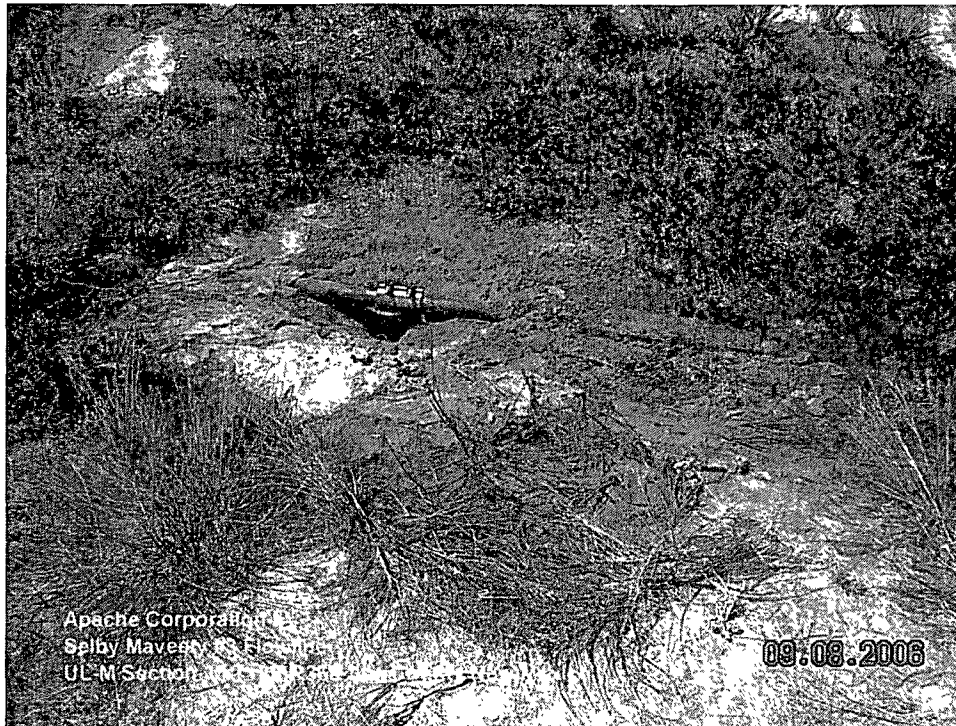
TT = Test Trench, BG = Background Check

BH = Soil samples collected from the bottom of the excavation, SW = Soil samples collected from the side walls of the excavation (E=East, W=West, N=North and S=South)

APPENDICES

APPENDIX I

PROJECT PHOTOGRAPHS



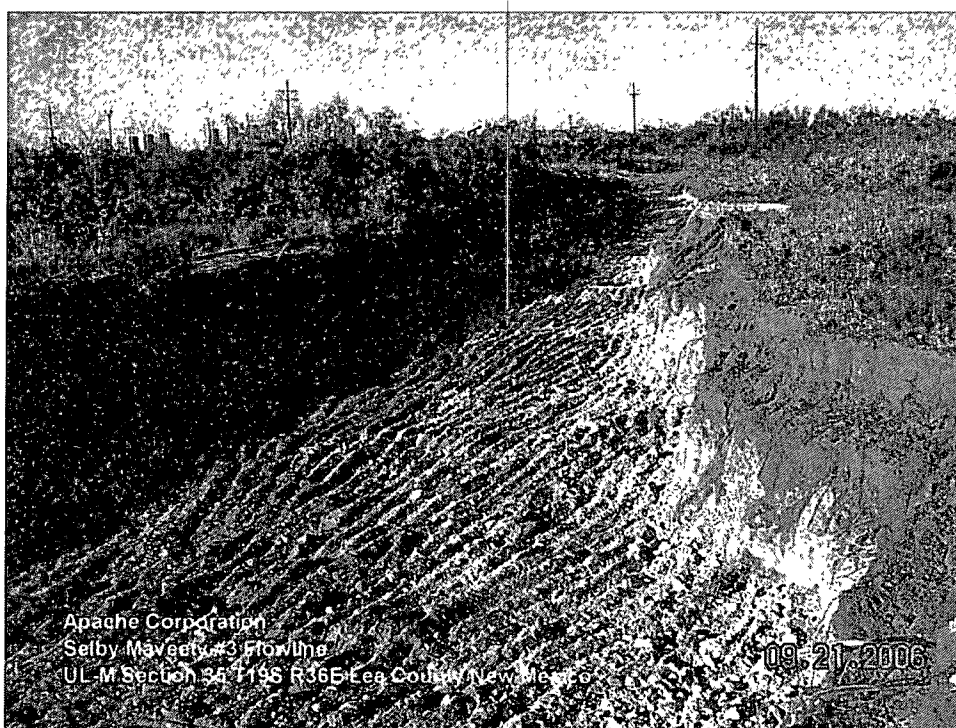
Photograph #1 – Looking at point of release.



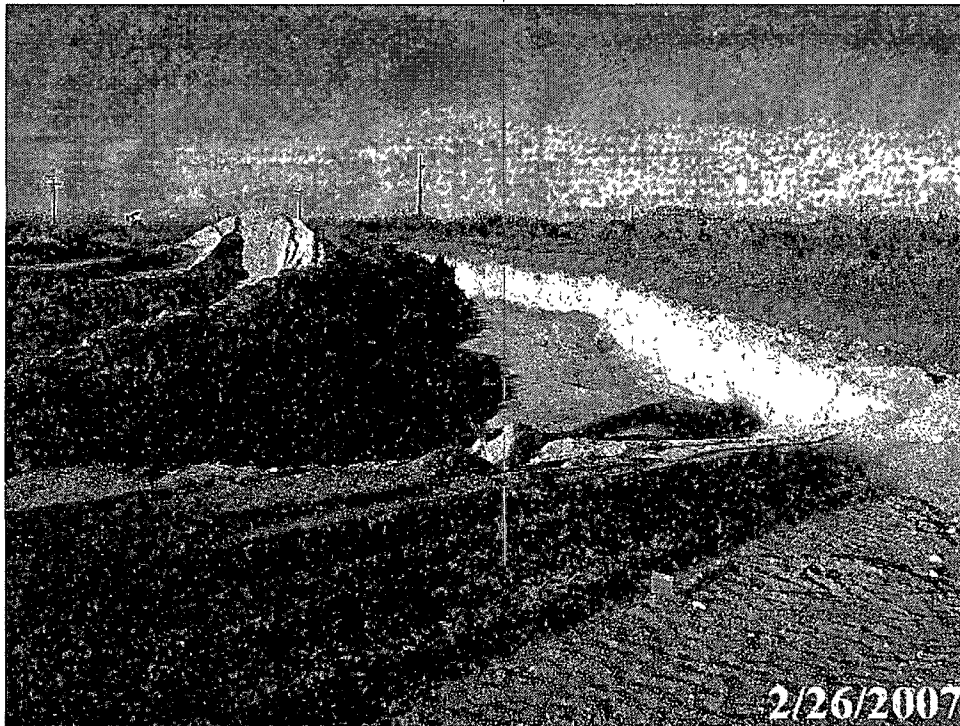
Photograph #2 – Looking west at pipeline and release area.



Photograph #3 – Looking west at point of release.



Photograph #4 – Looking east at release area excavations.



Photograph #5 – Looking west at excavation.



Photograph #6 – Looking west at excavation and benching of sidewalls.



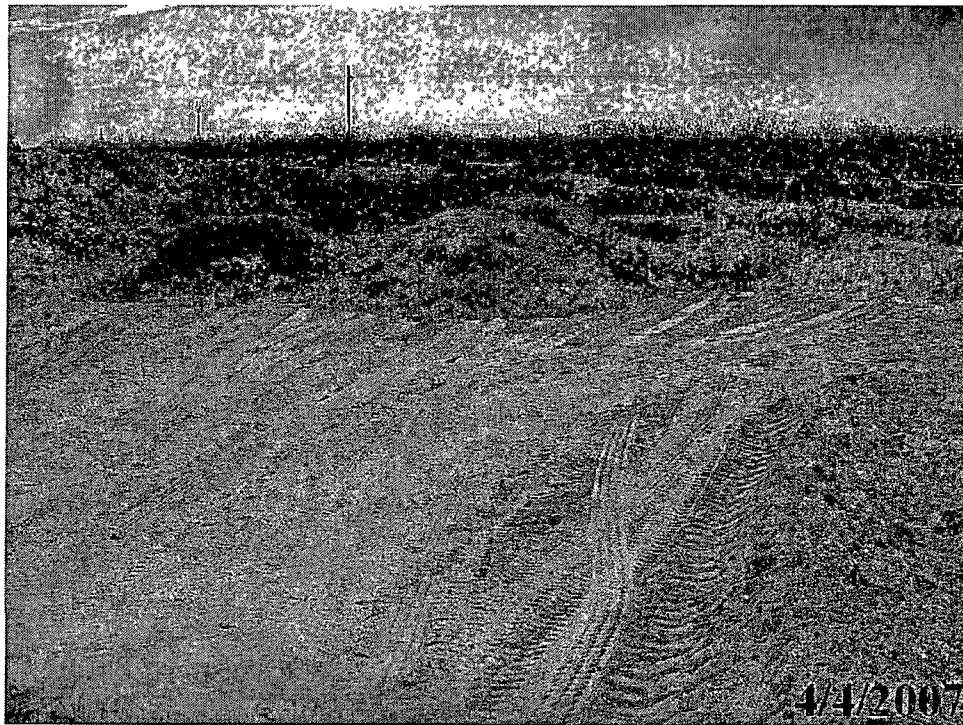
Photograph #7 – Looking northwesterly at excavation.



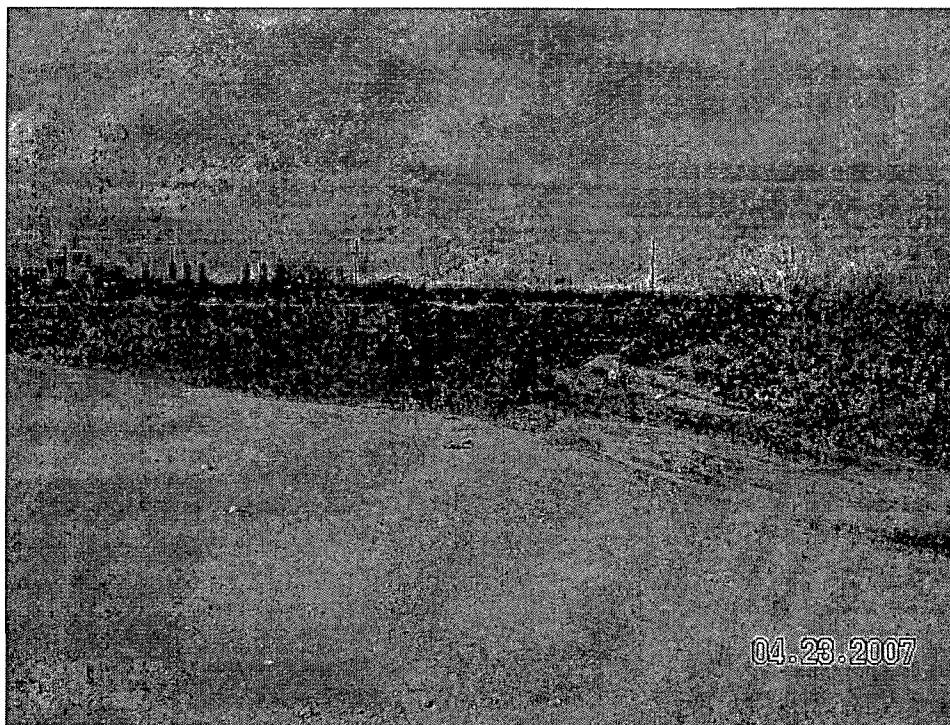
Photograph #8 – Looking west at excavation and benching of sidewalls.



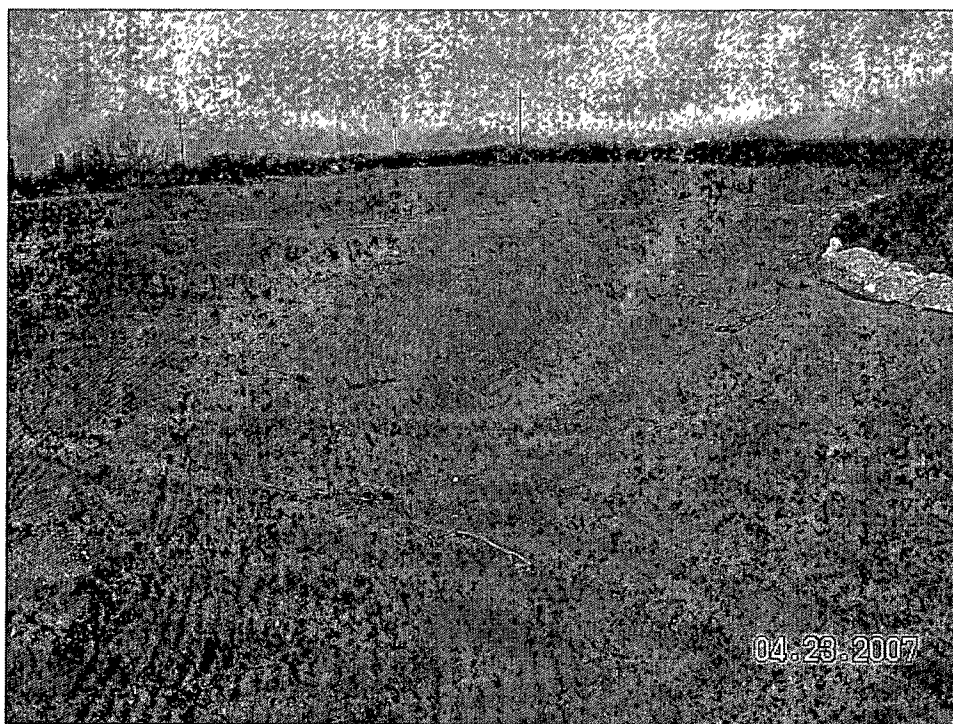
Photograph #9 – Looking west at backfilling of excavation.



Photograph #10 – Looking northwest at backfilling of excavation.



Photograph #11 – Looking southwest at remediated site.



Photograph #12 – Looking west at remediated site.

APPENDIX II

LABORATORY ANALYTICAL REPORTS

CHAIN-OF-CUSTODY FORMS



ARDINAL LABORATORIES

PHONE (325) 673-7601 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

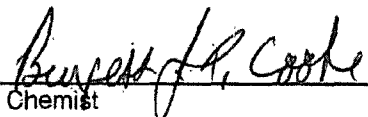
Receiving Date: 09/15/06
Reporting Date: 09/19/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY.MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/15/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
		09/18/06	09/18/06	09/18/06
H11542-1	CBH-5'	581	5390	2340
H11542-2	CBH-10'	<10.0	160	560
H11542-3	CBH-15'	<10.0	<10.0	2030
H11542-4	EBH-5'	24.8	848	8000
H11542-5	EBH-10'	134	1770	5340
H11542-6	EBH-15'	<10.0	242	736
H11542-7	WBH-5'	<10.0	<10.0	736
H11542-8	WBH-10'	<10.0	<10.0	368
H11542-9	WBH-15'	<10.0	<10.0	320
Quality Control		768	749	940
True Value QC		800	800	1000
% Recovery		96.0	93.6	94.0
Relative Percent Difference		5.5	0.6	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist

9/19/06
Date

H11542A

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 09/15/06
Reporting Date: 09/19/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/15/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		09/18/06	09/18/06	09/18/06	09/18/06
H11542-1	CBH-5'	0.040	0.770	6.08	23.4
H11542-2	CBH-10'	<0.005	<0.005	<0.005	0.0230
H11542-3	CBH-15'	<0.005	<0.005	<0.005	<0.015
H11542-4	EBH-5'	<0.005	0.019	0.124	0.804
H11542-5	EBH-10'	<0.005	0.167	0.630	2.96
H11542-6	EBH-15'	<0.005	<0.005	<0.005	<0.015
H11542-7	WBH-5'	<0.005	<0.005	<0.005	<0.015
H11542-8	WBH-10'	<0.005	0.014	<0.005	<0.015
H11542-9	WBH-15'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.103	0.103	0.106	0.306
True Value QC		0.100	0.100	0.100	0.300
% Recovery		103	103	106	102
Relative Percent Difference		4.7	3.3	3.6	2.8

METHOD: EPA SW-846 8260

Burgess J. A. Cooke
Chemist

9/19/06
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: NOT GIVEN

Analyzed By: HM

NOTE: Analysis performed on a 1:4 w:v aqueous extract.

09-19-06
Date

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Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.	
EPI Project Manager		Pat McCasland	
Billing Address		P.O. BOX 1558	
City, State, Zip		Eunice New Mexico 88231	
EPI Phone/Fax#		505-394-3481 / 505-394-2601	
Client Company		Apache Corporation	
Facility Name		Selby Maveety #3	
Project Reference		#240015	
EPI Sampler Name		Kurt Tyree	

Apache Corporation		P.O. Drawer D		Montument, NM 88265		ATT: Mike Warren	
--------------------	--	---------------	--	---------------------	--	------------------	--

LAB I.D.	SAMPLE I.D.	# CONTAINERS				MATRIX				PRESERV.				SAMPLING		TIME	DATE	BTX 80218	TPH 8015M	CHLORIDES (CI)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER	ACID/BASE	ICE/COL	OTHER															
411542-1	1 CBH-5'	X																							
-2	2 CBH-10'	X																							
-3	3 CBH-15'	X																							
-4	4 EBH-5'	X																							
-5	5 EBH-10'	X																							
-6	6 EBH-15'	X																							
-7	7 WBH-5'	X																							
-8	8 WBH-10'	X																							
-9	9 WBH-15'	X																							
-10																									

Sampler Requisitioned:		Date:		Received By:	
Requisitioned by:		Time:		Time:	
Delivered by:		Time:		Time:	
Sample Cont. & Index:		Yes		No	
Checked By:		Checked By:		Checked By:	

Remarks: To Pat McCasland 505-394-2601
REMARKS: CoG requested.



ARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 09/21/06
Reporting Date: 09/25/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/21/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		09/23/06	09/23/06	09/22/06
H11557-1	CBH-20'	<10.0	100	32
H11557-2	EBH-20'	<10.0	21.2	352
H11557-3	WBH-20'	<10.0	<10.0	384
Quality Control		740	756	950
True Value QC		800	800	1000
% Recovery		92.5	94.5	95.0
Relative Percent Difference		0.3	0.7	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI-B

*Analyses performed on 1:4 w:v aqueous extracts.

Burgess A. Cosh
Chemist

9/25/06
Date

H11557A

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ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 09/21/06
Reporting Date: 09/25/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/21/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		09/22/06	09/22/06	09/22/06	09/22/06
H11557-1	CBH-20'	<0.005	<0.005	<0.005	<0.015
H11557-2	EBH-20'	<0.005	<0.005	<0.005	<0.015
H11557-3	WBH-20'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.106	0.103	0.106	0.297
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	103	106	98.8
Relative Percent Difference		6.52	4.3	6.7	4.0

METHOD: EPA SW-846 8260

Bryant J. G. Cox
Chemist

9/25/06
Date

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101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

2111 Beachwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name	Environmental Plus, Inc.
EPI Project Manager	Pat McCasland
Billing Address:	P.O. BOX 1553
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2501
Client Company	Apache Corporation
Facility Name	Selby Maveety #3
Project Reference	9240015
EPI Sampler Name	Kurt Tyree

Apache Corporation
P.O. Drawer D
Monument, NM 88265
ATT: Mike Warren

LAB I.D.	SAMPLE I.D.	MATRIX				PRESERV.			SAMPLING		
		# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER
HUSS7-1	CBH-20'	X 1			X					X	
	- 2 EBH-20'	X 1			X					X	
	- 3 WBH-20'	X 1			X					X	
4											
5											
6											
7											
8											
9											
10											

TPH 8015M
CHLORIDES (Cl)
SULFATES (SO₄)
PH
TCLP
OTHER

DATE TIME
9/21/06 11:05
9/21/06 11:10
9/21/06 11:00

Sampler, Returned By: *[Signature]*
Received By: *[Signature]*
Delivered By: *[Signature]*

Date: 9-21-06
Time: 2:00 PM
Received By: *[Signature]*
Sample Cool & Return: Yes ☒ No ☐
Checked By: *[Signature]*

Fax Results To Pat McCasland 505-394-2601
REMARKS: CoC requested.



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240


ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601


Receiving Date: 10/03/06
Reporting Date: 10/06/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/27/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		10/05/06	10/05/06	10/05/06	10/05/06
H11600-1	SW-3 (3')	<0.005	<0.005	<0.005	<0.015
H11600-2	SW-4 (3')	<0.005	<0.005	<0.005	<0.015
H11600-3	SW-5 (3')	<0.005	<0.005	<0.005	<0.015
H11600-4	SW-6 (3')	<0.005	<0.005	<0.005	<0.015
H11600-5	SW-7 (3')	<0.005	<0.005	<0.005	<0.015
H11600-6	SW-8 (3')	<0.005	<0.005	<0.005	<0.015
H11600-7	SW-9 (3')	<0.005	<0.005	<0.005	<0.015
Quality Control		0.105	0.099	0.100	0.289
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	98.9	100	96.5
Relative Percent Difference		0.9	0.1	2.8	2.7

METHOD: EPA SW-846 8260


Chemist


Date

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ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

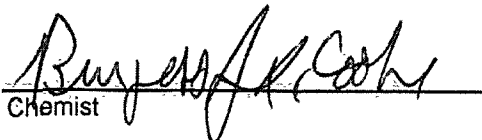
Receiving Date: 10/03/06
Reporting Date: 10/06/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 09/27/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		10/05/06	10/05/06	10/05/06
H11600-1	SW-3 (3')	<10.0	<10.0	80
H11600-2	SW-4 (3')	<10.0	<10.0	<16
H11600-3	SW-5 (3')	<10.0	<10.0	<16
H11600-4	SW-6 (3')	<10.0	<10.0	112
H11600-5	SW-7 (3')	<10.0	<10.0	32
H11600-6	SW-8 (3')	<10.0	<10.0	<16
H11600-7	SW-9 (3')	<10.0	<10.0	<16
Quality Control		776	780	490
True Value QC		800	800	500
% Recovery		97.0	97.5	98.0
Relative Percent Difference		7.8	0.2	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B

*Analyses performed on 1:4 w/v aqueous extracts.


Chemist

10/6/06
Date

H11600A

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																									
EPI Project Manager		Pat McCasland		Apache Corporation P.O. Drawer D Monument, NM 88265 ATT: Mike Warren																													
Billing Address		P.O. BOX 1558																															
City, State, Zip		Eunice New Mexico 88231																															
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																															
Client Company		Apache Corporation																															
Facility Name		Selby Maveety #3																															
Project Reference		#240015																															
EPI Sampler Name		Kurt Tyree																															
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>													
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE															TIME					
H11600 - 1	SW-3 (3')	X	1			X					X			9/27/06	10:40	X	X	X															
2	SW-4 (3')	X	1			X					X			9/27/06	10:45	X	X	X															
3	SW-5 (3')	X	1			X					X			9/27/06	10:50	X	X	X															
4	SW-6 (3')	X	1			X					X			9/27/06	10:55	X	X	X															
5	SW-7 (3')	X	1			X					X			9/27/06	11:00	X	X	X															
6	SW-8 (3')	X	1			X					X			9/27/06	11:05	X	X	X															
7	SW-9 (3')	X	1			X					X			9/27/06	11:10	X	X	X															
8																																	
9																																	
10																																	

Sample Relinquished by: <i>[Signature]</i> Date: 9/27/06 Time: 3:49 Relinquished by: <i>[Signature]</i> Date: 9/27/06 Time: 4:25		Received By: <i>[Signature]</i> Received By: (lab staff) <i>[Signature]</i>		Fax Results To Pat McCasland 505-394-2601 REMARKS: CoC requested.	
Delivered by: <i>[Signature]</i>		Sample Cool & Intact (Yes) No		Checked By:	



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

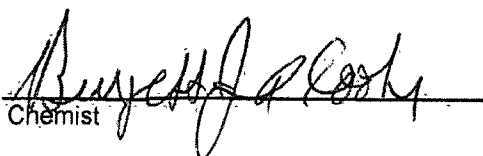
Receiving Date: 10/03/06
Reporting Date: 10/06/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

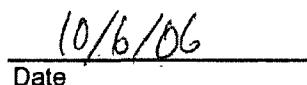
Sampling Date: 10/02/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		10/05/06	10/05/06	10/05/06
H11599-1	SW-1 (3')	<10.0	<10.0	96
H11599-2	SW-2 (3')	<10.0	<10.0	128
H11599-3	SW-10 (3')	<10.0	<10.0	64
H11599-4	SW-11 (3')	<10.0	<10.0	64
H11599-5	SW-12 (3')	<10.0	<10.0	32
Quality Control		788	758	490
True Value QC		800	800	500
% Recovery		98.5	94.8	98.0
Relative Percent Difference		2.1	0.2	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H11599A

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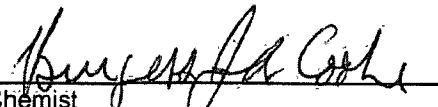
ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

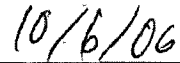
Receiving Date: 10/03/06
Reporting Date: 10/06/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 10/02/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		10/04/06	10/04/06	10/04/06	10/04/06
H11599-1	SW-1 (3')	<0.005	<0.005	<0.005	<0.015
H11599-2	SW-2 (3')	<0.005	<0.005	<0.005	<0.015
H11599-3	SW-10 (3')	<0.005	<0.005	<0.005	<0.015
H11599-4	SW-11 (3')	<0.005	<0.005	<0.005	<0.015
H11599-5	SW-12 (3')	<0.005	<0.005	<0.005	<0.015
Quality Control		0.105	0.099	0.100	0.289
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	98.9	100	96.5
Relative Percent Difference		0.9	0.1	2.8	2.7

METHOD: EPA SW-846 8260


Cheryl A. Cook
Chemist


10/6/06
Date

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Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax: 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.		Bill To										ANALYSIS REQUEST																	
EPI Project Manager		Pat McCasland		Apache Corporation P.O. Drawer D Monument, NM 88265 ATT: Mike Warren																											
Billing Address		P.O. BOX 1558																													
City, State, Zip		Eunice New Mexico 88231																													
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																													
Client Company		Apache Corporation																													
Facility Name		Selby Maveety #3																													
Project Reference		#240015																													
EPI Sampler Name		Kurt Tyree																													
LAB I.D.	SAMPLE I.D.	(GRAB OR (C)OMP.)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>											
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE																TIME		
11599-1	SW-1 (3')	X	1			X					X		10/2/06	9:00	X	X	X														
2	SW-2 (3')	X	1			X					X		10/2/06	9:05	X	X	X														
3	SW-10 (3')	X	1			X					X		10/2/06	11:00	X	X	X														
4	SW-11 (3')	X	1			X					X		10/2/06	11:05	X	X	X														
5	SW-12 (3')	X	1			X					X		10/2/06	11:10	X	X	X														
6																															
7																															
8																															
9																															
10																															

Sampler Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Delivered by: <i>[Signature]</i>		Date: 10/03/06 Time: 3:49 Date: 10/3/06 Time: 4:27pm	Received By: <i>[Signature]</i> Received By: <i>[Signature]</i> Checked By: <i>[Signature]</i>	Fax Results To: Pat McCasland 505-394-2601 REMARKS: CoC requested.
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ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

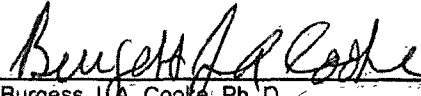
ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 10/13/06
Reporting Date: 10/23/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Sampling Date: 10/12/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		10/20/06	10/20/06	10/20/06	10/20/06	10/20/06	10/20/06
H11660-3	SB1-23	<10.0	<10.0	<0.005	<0.005	<0.005	0.015
Quality Control		784	744	0.105	0.094	0.098	0.281
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		98.0	93.0	105	94.4	97.8	93.6
Relative Percent Difference		0.1	6.4	4.7	7.1	4.0	4.7

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.


Burgess J.A. Cooke, Ph. D.

10/23/06
Date

H11660A

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FAX TO: (505) 394-2601

Project Location: NOT GIVEN

Analyzed By: HM

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date _____

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505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.		Bill To										ANALYSIS REQUEST																
EPI Project Manager		Pat McCasland		Apache Corporation P.O. Drawer D Monument, NM 88265 ATT: Mike Warren																										
Billing Address		P.O. BOX 1558																												
City, State, Zip		Eunice New Mexico 88231																												
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																												
Client Company		Apache Corporation																												
Facility Name		Selby Maveety #3																												
Project Reference		#240015																												
EPI Sampler Name		George Blackburn																												
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>										
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE														TIME			
411660-1	1 SB1-13'	G	1			X					X		10/12/06	12:15			X													
2	2 SB1-18'	G	1			X					X		10/12/06	1:15			X													
3	3 SB1-23'	G	1			X					X		10/12/06	1:47	X	X	X													
4	4 SB1-28'	G	1			X					X		10/12/06	2:22			X													
5	5 SB1-33'	G	1			X					X		10/12/06	3:32			X													
6																														
7																														
8																														
9																														
10																														

Samples Relinquished: <i>Jason Megemick</i>		Date: 4:20P Time: 10-13-06	Received By: <i>Benjamin A. Ash</i>	Fax Results To Pat McCasland 505-394-2601 REMARKS: CoC requested.
Relinquished by:		Date: Time:	Received By: (lab staff)	
Delivered by:		Sample Cool & Intact (Yes) No	Checked By:	



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Receiving Date: 10/13/06
Reporting Date: 10/16/06
Project Owner: APACHE CORPORATION (#240015)
Project Name: SELBY MAVEETY #3
Project Location: NOT GIVEN

Analysis Date: 10/16/06
Sampling Date: 10/13/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/Kg)
H11659-1	SB2-13'	128
H11659-2	SB2-18'	160
H11659-3	SB2-23'	160
H11659-4	SB3-13'	480
H11659-5	SB3-18'	240
H11659-6	SB3-23'	144
H11659-7	SB3-28'	192
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods

4500-C1B

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H11659

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Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																								
EPI Project Manager Pat McCasland		Apache Corporation P.O. Drawer D Monument, NM 88265 ATT: Mike Warren																										
Billing Address P.O. BOX 1558																												
City, State, Zip Eunice New Mexico 88231																												
EPI Phone#/Fax# 505-394-3481 / 505-394-2601																												
Client Company Apache Corporation																												
Facility Name Selby Maveety #3																												
Project Reference #240015																												
EPI Sampler Name George Blackburn																												
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>								
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE												TIME			
H11659	1 SB2-13'	G	1			X					X		10/13/06	8:20			X											
	2 SB2-18'	G	1			X					X		10/13/06	8:45			X											
	3 SB2-23'	G	1			X					X		10/13/06	9:10			X											
	4 SB3-13'	G	1			X					X		10/13/06	10:13			X											
	5 SB3-18'	G	1			X					X		10/13/06	10:39			X											
	6 SB3-23'	G	1			X					X		10/13/06	11:15			X											
	7 SB3-28'	G	1			X					X		10/13/06	11:41			X											
	8																											
	9																											
	10																											
Sampler Relinquished:		Date: 10-13-06		Received By:		Fax Results To Pat McCasland 505-394-2601 REMARKS: CoC requested.																						
Relinquished by: <i>Jason Higgenbotham</i>		Time: 4:20P		Received By: (lab staff)																								
Delivered by:		Time:		Checked By: <i>Bucsey/Rock</i>																								
				Sample Cool & Intact:																								
				Yes																								
				No																								



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Analysis Date: 03/02/07
Sampling Date: 03/01/07
Sample Type: SOIL
Sample Condition: COOL&INTACT
Sample Received By: LB
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/Kg)
H12292-1	SP-2 (14')	240
H12292-2	SP-4 (14')	176
H12292-3	SP-5 (14')	320
H12292-4	SP-7 (14')	80
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		1.0

METHOD: Standard Methods	4500-ClB
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Hope S. Moore
Chemist

03-02-07
Date

H12292

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Environmental Plus, Inc.

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(505) 394-3481 FAX: (505) 394-2601

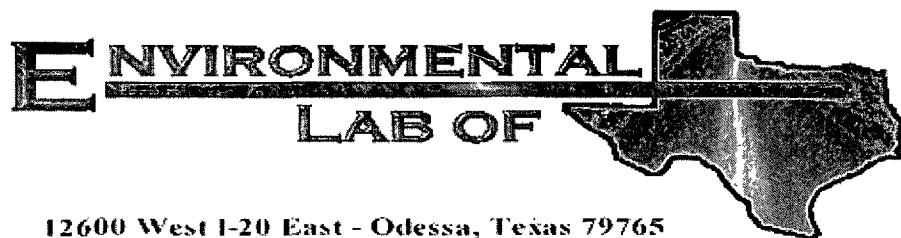
P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To										ANALYSIS REQUEST												
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																						
Mailing Address		P.O. BOX 1558																								
City, State, Zip		Eunice New Mexico 88231																								
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																								
Client Company		Apache Corporation																								
Facility Name		Selby Maveety #3																								
Location		UL-C, Sect. 20, T19S, R37E																								
Project Reference		240015																								
EPI Sampler Name		Danny Deaton																								
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH				
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME												
H12792 - 1	SP-2 (14')	G	1			X					X		01-Mar-07	11:00			X									
- 2	SP-4 (14')	G	1			X					X		01-Mar-07	11:15			X									
- 3	SP-5 (14')	G	1			X					X		01-Mar-07	11:30			X									
- 4	SP-7 (14')	G	1			X					X		01-Mar-07	11:45			X									
5																										
6																										
7																										
8																										
9																										
10																										

Sampler Relinquished:		3/2/2007		Received By:		E-mail results to: dduncan@envplus.net	
Danny Deaton Relinquished by:		Time 9:00 Date 3-2-07 Time 1:45		Jason Boone Received By: (lab staff)		RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 3941-2601, respectively	
Jason Boone Delivered by:		Sample Cool & Intact Yes No		Checked By:			



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

David P. Duncan

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Apache/ Selby Maveety #3

Project Number: 240015

Location: UL-C, Sec. 20, T19S, R37E

Lab Order Number: 7C08007

Report Date: 03/13/07

Environmental Plus, Incorporated
P O Box 1558
Eunice NM, 88231

Project Apache/ Selby Maveety #3
Project Number. 240015
Project Manager. David P Duncan

Fax 505-394-2601

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1B 16'	7C08007-01	Soil	03/06/07 07:00	03-08-2007 12.50
SP-3C 18'	7C08007-02	Soil	03/06/07 07:05	03-08-2007 12.50
SP-13B 18'	7C08007-03	Soil	03/06/07 07:35	03-08-2007 12.50

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project Apache/ Selby Maveety #3
Project Number 240015
Project Manager, David P. Duncan

Fax 505-394-2601

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1B 16' (7C08007-01) Soil									
Chloride	497	10 0	mg/kg	20	EC71311	03/13/07	03/13/07	EPA 300 0	
SP-3C 18' (7C08007-02) Soil									
Chloride	135	5 00	mg/kg	10	EC71311	03/13/07	03/13/07	EPA 300 0	
SP-13B 18' (7C08007-03) Soil									
Chloride	20.3	5.00	mg/kg	10	EC71311	03/13/07	03/13/07	EPA 300 0	

Environmental Lab of Texas

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Page 2 of 4

Environmental Plus, Incorporated
P O Box 1558
Eunice NM, 88231

Project. Apache/ Selby Maveety #3
Project Number. 240015
Project Manager David P Duncan

Fax. 505-394-2601

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EC71311 - General Preparation (WetChem)

Blank (EC71311-BLK1)

Prepared & Analyzed 03/13/07

Chloride ND 0.500 mg/kg

LCS (EC71311-BS1)

Prepared & Analyzed 03/13/07

Chloride 12.0 mg/L 10.0 120 80-120

Calibration Check (EC71311-CCV1)

Prepared & Analyzed 03/13/07

Chloride 11.4 mg/L 10.0 114 80-120

Duplicate (EC71311-DUP1)

Source: 7C08007-01

Prepared & Analyzed 03/13/07

Chloride 497 10.0 mg/kg 497 0.00 20

Duplicate (EC71311-DUP2)

Source: 7C09002-08

Prepared & Analyzed 03/13/07

Chloride 419 10.0 mg/kg 421 0.476 20

Matrix Spike (EC71311-MS1)

Source: 7C08007-01

Prepared & Analyzed 03/13/07

Chloride 682 10.0 mg/kg 200 497 92.5 80-120

Matrix Spike (EC71311-MS2)

Source: 7C09002-08

Prepared & Analyzed 03/13/07

Chloride 612 10.0 mg/kg 200 421 95.5 80-120

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Page 3 of 4

Environmental Plus, Incorporated
P O Box 1558
Eunice NM, 88231

Project. Apache/ Selby Maveety #3
Project Number. 240015
Project Manager David P. Duncan

Fax. 505-394-2601

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 3/13/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Page 4 of 4

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: ELT

Company Name		Environmental Plus, Inc.		Bill To										ANALYSIS REQUEST														
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																								
Mailing Address		P.O. BOX 1558																										
City, State, Zip		Eunice New Mexico 88231																										
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																										
Client Company		Apache Corporation																										
Facility Name		Selby Maveety #3																										
Location		UL-C, Sect. 20, T19S, R37E																										
Project Reference		240015																										
EPI Sampler Name		Danny Deaton																										
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH						
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME														
1108007																												
1	SP-1B (16')	G	1			X					X			06-Mar-07	7:00			X										
2	SP-3C (18')	G	1			X					X			06-Mar-07	7:05			X										
3	SP-13B (18')	G	1			X					X			06-Mar-07	7:35			X										
4																												
5																												
6																												
7																												
8																												
9																												
10																												

Sampler Relinquished:		3/8/2007	Received By:		E-mail results to: dduncan@envplus.net	
		Time			RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 394-2601, respectively	
Relinquished by:		Date 3-8	Received By: (lab staff)		4oz glass	
Kogan Boone		Time 12:50	Cecilia (Cecy)		Seal label 0.5	
Delivered by:		Sample Cool & Intact		Checked By		
		Yes No		CK		

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: EPI
 Date/ Time: 3/8/07 12:50
 Lab ID #: H1008007
 Initials: CK

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	Yes	No	D.S °C	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by EL0T?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply: ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: UL-C, SECT. 20, T19S, R37E

Analyzed By: HM

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

3/15/07
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

(505) 394-3481 FAX: (505) 394-2601

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																		
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																						
Mailing Address		P.O. BOX 1558																								
City, State, Zip		Eunice New Mexico 88231																								
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																								
Client Company		Apache Corporation																								
Facility Name		Selby Maveety #3																								
Location		UL-C, Sect. 20, T19S, R37E																								
Project Reference		240015																								
EPI Sampler Name		Danny Deaton																								
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH					
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE											TIME		
4123354	1 SP-10E (24')	G	1			X					X		08-Mar-07	13:50			X									
	2 SP-21A (16')	G	1			X					X		12-Mar-06	11:15			X									
	3 SP-22A (16')	G	1			X					X		12-Mar-07	11:30			X									
	4 SP-25A (16')	G	1			X					X		12-Mar-07	14:15			X									
	5 SP-26A (16')	G	1			X					X		12-Mar-07	14:20			X									
	6 SP-17 (16')	G	1			X					X		13-Mar-07	12:45			X									
	7 SP-18A (16')	G	1			X					X		13-Mar-07	12:50			X									
	8 SP-29 (14')	G	1			X					X		13-Mar-07	14:30			X									
	9 SP-30A (13')	G	1			X					X		13-Mar-07	15:05			X									
	10																									

Sampler Relinquished:		3/14/2007		Received By:		E-mail results to: dduncan@envplus.net	
<i>Wade McHurt</i>		Time 3:48 PM		<i>Benjamin P. ...</i>		RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 394-2601, respectively	
Relinquished by:		Date		Received By: (lab staff)			
		Time		<i>Benjamin P. ...</i>			
Delivered by:		Sample Cool & Intact		Checked By:			
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: UL-C, SECT. 20, T19S, R37E

Analyzed By: HM

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date 03-19-07

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 application. 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.

Environmental Plus, Inc.

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(505) 394-3481 FAX: (505) 394-2601

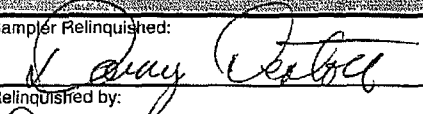
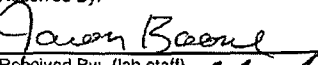
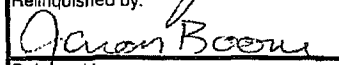
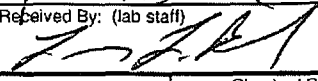

P.O. Box 1558, Eunice, NM 88231

H12355

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																			
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																							
Mailing Address		P.O. BOX 1558																									
City, State, Zip		Eunice New Mexico 88231																									
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																									
Client Company		Apache Corporation																									
Facility Name		Selby Maveety #3																									
Location		UL-C, Sect. 20, T19S, R37E																									
Project Reference		240015																									
EPI Sampler Name		Danny Deaton																									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH					
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME													
H12355-	1 TT-5 (32')	G	1			X					X		16-Mar-07	13:35			X										
-	2 TT-6 (22')	G	1			X					X		16-Mar-07	13:50			X										
-	3 TT-7 (22')	G	1			X					X		16-Mar-07	14:10			X										
-	4 BG-1	G	1			X					X		16-Mar-07	14:30			X										
	5																										
	6																										
	7																										
	8																										
	9																										
	10																										

Sampler Relinquished:		3/19/2007		Received By:		E-mail results to: dduncan@envplus.net	
		Time: 10:00				RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 394-2601, respectively	
Relinquished by:		Date: 3-14-07		Received By: (lab staff)			
		Time: 11:35					
Delivered by:		Sample Cool & Intact		Checked By:			
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: UL-C, SECT. 20, T19S, R37E

Analyzed By: HM

METHOD: Standard Methods	4500-CIB
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

03-22-87

Date

H12373

PLEASE NOTE. Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

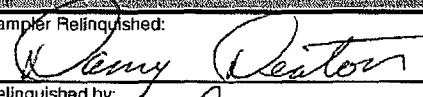
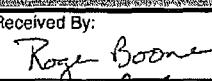

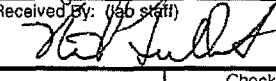
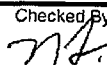
2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																	
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																					
Mailing Address		P.O. BOX 1558																							
City, State, Zip		Eunice New Mexico 88231																							
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																							
Client Company		Apache Corporation																							
Facility Name		Selby Maveety #3																							
Location		UL-C, Sect. 20, T19S, R37E																							
Project Reference		240015																							
EPI Sampler Name		Danny Deaton																							
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH				
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE											TIME	
H12373 - 1	SW-11 (27')	G	1			X				X			21-Mar-07	8:20			X								
- 2	SW-11 (21')	G	1			X				X			21-Mar-07	8:25			X								
- 3	SW-15 (25')	G	1			X				X			21-Mar-07	8:30			X								
- 4	SW-15 (19')	G	1			X				X			21-Mar-07	8:35			X								
- 5	SW-19 (25')	G	1			X				X			21-Mar-07	8:40			X								
- 6	SW-19 (19')	G	1			X				X			21-Mar-07	8:45			X								
7																									
8																									
9																									
10																									

Sampler Relinquished:		3/22/2007		Received By:		E-mail results to: dduncan@envplus.net	
		Time 0700				RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 394-2601, respectively	
Relinquished by:		Date 3-22-07		Received By: (lab staff)			
		Time 9:34am					
Delivered by:		Sample Cool & Intact		Checked By:			
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: UL-C, SECT. 20, T19S, R37E

Analyzed By: HM

METHOD: Standard Methods	4500-ClB
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

03-24-07
Date

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																			
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																					
Mailing Address		P.O. BOX 1558																							
City, State, Zip		Eunice New Mexico 88231																							
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																							
Client Company		Apache Corporation																							
Facility Name		Selby Maveety #3																							
Location		UL-C, Sect. 20, T19S, R37E																							
Project Reference		240015																							
EPI Sampler Name		Danny Deaton																							
LAB I.D.	SAMPLE I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH				
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME												
H12378-31	SW-7A (27')	G 1			X				X		22-Mar-07	8:45			X										
	2 SW-8 (22')	G 1			X				X		22-Mar-07	9:30			X										
	3 SW-12 (27')	G 1			X				X		22-Mar-07	9:45			X										
	4 SW-16 (25')	G 1			X				X		22-Mar-07	10:50			X										
	5 SW-20 (25')	G 1			X				X		22-Mar-07	11:00			X										
	6 SW-23 (12')	G 1			X				X		22-Mar-07	11:15			X										
	7 SW-24 (17')	G 1			X				X		22-Mar-07	13:30			X										
	8 SW-27 (12')	G 1			X				X		22-Mar-07	14:30			X										
	9 SW-8 (27')	G 1			X				X		22-Mar-07	9:35			X										
	10 SW-7A (22')	G 1			X				X		22-Mar-07	8:40			X										
Sampler Relinquished		3/23/2007		Received By:		E-mail results to: dduncan@envplus.net																			
Relinquished by:		Time: 1:00		Date: 3-23-07		RUSH ORDER: E-mail or fax laboratory analytical results to dduncan@envplus.net or (505) 394-2601, respectively																			
Delivered by:		Time: 2:45		Received By (lab staff):																					
		Sample Cool & Intact		Checked By:																					
		Yes No																							



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Project Location: UL-C, SECT. 20, T19S, R37E

Analyzed By: HM

METHOD: Standard Methods	4500-C/B
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

03-28-07
Date

H12391

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

LAB: Cardinal

[illegible]



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

FAX TO: (505) 394-2601

Analyzed By: HM

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date 03-28-07

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Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																			
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																							
Mailing Address		P.O. BOX 1558																									
City, State, Zip		Eunice New Mexico 88231																									
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																									
Client Company		Apache Corporation																									
Facility Name		Selby Maveety #3																									
Location		UL-C, Sect. 20, T19S, R37E																									
Project Reference		240015																									
EPI Sampler Name		Danny Deaton																									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH					
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME													
412394-1	1 SW-5B (27')	G	1			X					X		27-Mar-07	8:30			X										
-2	2 SP-10 (28')	G	1			X					X		27-Mar-07	10:20			X										
-3	3 SP-14 (28')	G	1			X					X		27-Mar-07	10:25			X										
-4	4 SP-22 (18')	G	1			X					X		27-Mar-07	10:35			X										
	5																										
	6																										
	7																										
	8																										
	9																										
	10																										

Sampler Relinquished:		3/28/2007		Received By:		E-mail results to: dduncan@envplus.net	
Relinquished by:		Time: 12:20		Received By: (lab staff)		RUSH ORDER: If possible, e-mail the results within 48-hrs. to David P. Duncan @ dduncan@envplus.net or remit via fax at (505) 394-2601. Thank you.	
Delivered by:		Date: 3-28-07		Time: 2:00			
		Sample Cool & Intact		Checked By:			
		Yes		No			



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analysis Date: 03/29/07
Sampling Date: 03/28/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date _____

PLEASE NOTE **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																					
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																									
Mailing Address		P.O. BOX 1558																											
City, State, Zip		Eunice New Mexico 88231																											
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																											
Client Company		Apache Corporation																											
Facility Name		Selby Maveety #3																											
Location		UL-C, Sect. 20, T19S, R37E																											
Project Reference		240015																											
EPI Sampler Name		Danny Deaton																											
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH							
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME															
H/2397 - 1	SWW-6C (26')	G	1			X					X		28-Mar-07	8:05			X												
- 2	SP-6 (32')	G	1			X					X		28-Mar-07	14:50			X												
- 3	SP-18 (29')	G	1			X					X		28-Mar-07	14:55			X												
- 4	SW-31 (12')	G	1			X					X		28-Mar-07	15:00			X												
5																													
6																													
7																													
8																													
9																													
10																													

Sampler Relinquished:		3/28/2007	Received By:		E-mail results to: dduncan@envplus.net	
<i>Jaron Hegemole</i>		Time 10:00A	<i>Jaron Hegemole</i>		RUSH ORDER: If possible, e-mail results within 48-hrs. to David P. Duncan @ dduncan@envplus.net or remit via fax at (505) 394-2601. Thank you.	
Relinquished by:		Date 3/24/07	Received By: (lab staff)			
		Time 10:30	<i>Bryant Cook</i>			
Delivered by:		Sample Cool & Intact		Checked By:		
<i>Scott D</i>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analyzed By: HM

NOTE: Analysis performed on a 1:4 w:v aqueous extract.

03-29-07
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

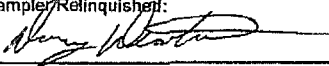


P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST													
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																	
Mailing Address		P.O. BOX 1558																			
City, State, Zip		Eunice New Mexico 88231																			
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																			
Client Company		Apache Corporation																			
Facility Name		Selby Maveety #3																			
Location		UL-C, Sect. 20, T19S, R37E																			
Project Reference		240015																			
EPI Sampler Name		Danny Deaton																			

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.			SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH							
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																
H12398-1	1 SW-5B (22')	G	1			X						X			29-Mar-07	9:45			X											
	2																													
	3																													
	4																													
	5																													
	6																													
	7																													
	8																													
	9																													
	10																													

Sampler/Relinquished:	3/29/2007	Received By:	E-mail results to: dduncan@envplus.net
	Time 1:50		RUSH ORDER: If possible, e-mail the results within 48-hrs. to David P. Duncan @ dduncan@envplus.net or remit via fax at (505) 394-2601. Thank you.
Relinquished by:	Date	Received By: (lab staff)	
	Time		
Delivered by:	Sample Cool & Intact	Checked By:	
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

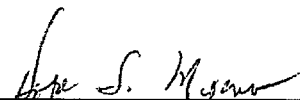
Receiving Date: 03/30/07
Reporting Date: 04/02/07
Project Owner: APACHE (#240015)
Project Name: SELBY MAVEETY #3
Project Location: UL-C, SECT. 20, T19S, R37E

Analysis Date: 03/30/07
Sampling Date: 03/30/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: NF

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H12407-1	SP-22 (19")	144
Quality Control		490
True Value QC		500
% Recovery		98.0
Relative Percent Difference		1.0

METHOD: Standard Methods	4500-ClB
--------------------------	----------

NOTE: Analysis performed on a 1:4 w:v aqueous extract.


Chemist

04-02-07
Date

H12407

PLEASE NOTE. Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.


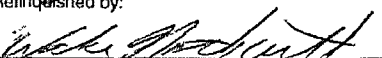
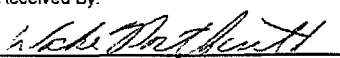
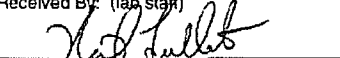
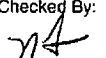
2100 Avenue O, Eunice, NM 88231
 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																							
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																											
Mailing Address		P.O. BOX 1558																													
City, State, Zip		Eunice New Mexico 88231																													
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																													
Client Company		Apache Corporation																													
Facility Name		Selby Maveety #3																													
Location		UL-C, Sect. 20, T19S, R37E																													
Project Reference		240015																													
EPI Sampler Name		Danny Deaton																													
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH									
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																	
412407 - 1	SP-22 (19")	G	1			X						X			30-Mar-07	14:45			X												
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															

Sampler Relinquished:  Relinquished by:  Delivered by:	3/30/2007 Time 1:55 PM Date 3/30/07 Time 4:00 PM	Received By:  Received By: (lab staff)  Checked By: 	E-mail results to: dduncan@envplus.net RUSH ORDER: If possible, e-mail the results within 24-hrs. to David P. Duncan @ dduncan@envplus.net or remit via fax at (505) 394-2601. Thank you.
--	---	--	--



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 04/04/07
Reporting Date: 04/04/07
Project Owner: APACHE CORPORATION (240015)
Project Name: SELBY MAVEETY #3
Project Location: UL-C, SECT. 20, T19S, R37E

Analysis Date: 04/04/07
Sampling Date: 04/04/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H12420-1	SW-11D (27')	176
H12420-2	SW-15D (19')	464
Quality Control		490
True Value QC		500
% Recovery		98.0
Relative Percent Difference		0.0

METHOD: Standard Methods	4500-ClB
--------------------------	----------

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Joseph S. Moreno
Chemist

04-04-07
Date

H12420

PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																								
EPI Project Manager		David P. Duncan		Apache Corporation Attn: Mr. Guinn Burks P.O. Box 728 Crane, Texas 79731																												
Mailing Address		P.O. BOX 1558																														
City, State, Zip		Eunice New Mexico 88231																														
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																														
Client Company		Apache Corporation																														
Facility Name		Selby Maveety #3																														
Location		UL-C, Sect. 20, T19S, R37E																														
Project Reference		240015																														
EPI Sampler Name		Danny Deaton																														
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH										
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																		
412420 - 1	SW-11D (27')	G	1			X					X		03-Apr-07	15:15			X															
~ 2	SW-15D (19')	G	1			X					X		03-Apr-07	15:20			X															
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																

Sampler Relinquished:		4/4/2007		Received By:		E-mail results to: dduncan@envplus.net	
Danny Deaton Relinquished by:		7:15 Date: 4-4-07 Time: 8:20		Aaron Boone Received By: (Lab staff)		RUSH ORDER: If possible, e-mail the results within 24-hrs. to David P. Duncan @ dduncan@envplus.net or remit via fax at (505) 394-2601. Thank you.	
Aaron Boone Delivered by:		Sample Cool & Intact (Yes) No		Checked By:			

APPENDIX III
SOIL BORING LOGS

Log Of Test Borings

(NOTE - Page 1 of 1)



ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 240015

Project Name: Apache Corporation - Selby Maveety #3 Flowline

Location: UL-K, Section 35, Township 19 South, Range 36 East

Boring Number: SB-1

Surface Elevation: 3,615-feet amsl

Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Start Date: 10-12-06 Time: _____	Completion Date: 10-12-06 Time: _____	Description
							10			
				0.0	600		15			13' bgs - Bottom of Excavation - Caliche
				0.0	560		20			18' CALICHE
				0.0	480		25			23' SAND/Rock
				0.0	240		30			28' SAND/Rock
				0.0	160		35			33' SAND/Rock
										End of Soil Boring at 33' bgs

Water Level Measurements (feet)						Drilling Method: HSA 3.5' ID
Date	Time	Sample Depth	Casing Depth	Cave-In Depth	Water Level	Backfill Method: Bentonite
-	-	-	-	-	-	Field Representative: GB
-	-	-	-	-	-	

Log Of Test Borings

(NOTE - Page 1 of 1)



ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 240015

Project Name: Apache Corporation - Selby Maveety #3 Flowline

Location: UL-K, Section 35, Township 19 South, Range 36 East

Boring Number: SB-2

Surface Elevation: 3,615-feet amsl

Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Start Date: 10-16-06 Time: _____	Completion Date: 10-16-06 Time: _____	Description			
							5						
				0.0	160		13			13' bgs - Bottom of Excavation - Caliche			
							15						
				0.0	160		18			18' CALICHE			
							20						
				0.0	160		23			23' SAND/Rock			
							25			End of Soil Boring at 23' bgs			
							30						
Water Level Measurements (feet)								Drilling Method: HSA 3.5' ID					
Date	Time	Sample Depth	Casing Depth	Cave-In Depth	Water Level								
-	-	-	-	-	-								
-	-	-	-	-	-								
								Backfill Method: Bentonite					
								Field Representative: GB					

Log of Test Borings

(NOTE - Page 1 of 1)



ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 240015

Project Name: Apache Corporation - Selby Maveety #3 Flowline

Location: UL-K, Section 35, Township 19 South, Range 36 East

Boring Number: SB-3

Surface Elevation: 3,615-feet amsl

Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Start Date: 10-16-06 Time: _____	Completion Date: 10-16-06 Time: _____	Description			
							5						
							10						
				0.0	480		13'			13' bgs - Bottom of Excavation - Caliche			
							15						
				0.0	300		18'			18' CALICHE			
							20						
				0.0	240		23'			23' SAND/Rock			
							25						
				0.0	240		28'			28' SAND/Rock			
							30			End of Soil Boring at 28' bgs			
Water Level Measurements (feet)								Drilling Method: HSA 3.5' ID					
Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level	Backfill Method: Bentonite							
-	-	-	-	-	-	Field Representative: GB							
-	-	-	-	-	-								

APPENDIX IV

INITIAL NMOCD FORM C-141

FINAL NMOCD FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1361 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

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

Name of Company <u>Apache Corp.</u>		Contact <u>Hub Perry</u>	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Address <u>17 Hess Lane</u>		Telephone No. <u>(505) 441-6600</u>	
Facility Name <u>Selby Maverty #3</u>		Facility Type <u>Flowline Leak</u>	
Surface Owner <u>Darrell Borden</u>	Mineral Owner <u>State NM</u>	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<u>1K</u>	<u>35</u>	<u>19S</u>	<u>36E</u>	<u>2310</u>	<u>South</u>	<u>1650</u>	<u>West</u>	<u>LEA</u>

Latitude 32° 36.827 Longitude 103° 19.871

NATURE OF RELEASE

Type of Release <u>Flowline Leak</u>	Volume of Release <u>100 BBLs</u>	Volume Recovered <u>70 BBLs</u>
Source of Release <u>Hole in Line</u>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Pat Caperton</u>	
By Whom? <u>Hub Perry</u>	Date and Hour <u>9/17/06 3:00P</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Hole in Flowline releasing Fluid. Trucks called and All Fluid was Picked up.

Describe Area Affected and Cleanup Action Taken.*

Fluid from Flowline spilled out. Approx 1200 ft South West of Maverty #3. Vacuum trucks picked up all Fluid.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOC 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 <u>Hub Perry</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Hub Perry</u>	Approved by District Supervisor:	
Title: <u>Super II</u>	Approval Date:	Expiration Date:
E-mail Address: <u>Hub.Perry@BIA.apache Corp.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>9/18/06</u> Phone: <u>441-6600</u>		

Attach Additional Sheets If Necessary

Attn: Pat McCasland

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

Form C-141
Revised June 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: Guinn Burks
Address: P.O. Box 728 Crane, Texas 79731	Telephone No.: 432-556-9143
Facility Name: Selby Maveety #3 Flowline	Facility Type: 4-inch steel pipeline

Surface Owner: DLD Resources	Mineral Owner: State of NM	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	T19S	R36E					Lea

Latitude: 32° 36' 49.62"

Longitude: 103° 19' 52.26"W

NATURE OF RELEASE

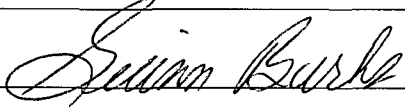
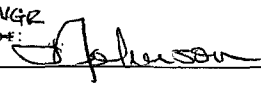
Type of Release: Crude Oil and Produced Water	Volume of Release : 100 bbls	Volume Recovered : 70 bbls
Source of Release: 4-inch steel pipeline	Date and Hour of Occurrence: 9-7-06 AM	Date and Hour of Discovery: 9-7-06 @ 3:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Hub Perry	Date and Hour: 9-7-06 @ 3:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken:*
Internal/External Corrosion.

Describe Area Affected and Cleanup Action Taken:* a) Approximately 2,900 ft² of surface area was initially affected by the release; b) highly contaminated soils above NMOCD site remedial goals were excavated and disposed at Sundance Services, Inc., and Controlled Recovery Inc., while less impacted soils were transported to South Monument Waste Facility for treatment; c) laboratory analyses confirmed removal of most highly impacted soils above NMOCD remedial goals in sidewalls and bottom; d) approximately 7,674 yds³ of impacted soil were excavated from a surface area of approximately 7,000 ft²; e) backfilled excavation with approximately 7,148 yds³ of caliche and topsoil; f) contoured ground surface to allow natural drainage of the area; g) seeded area with blend preferred by the landowner.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Guinn Burks	Approved by District ^{Enviro Engr} Supervisor: 	
Title: EH & S Technician-South/Central Permian	Approval Date: 6-27-07	Expiration Date: —
E-mail Address: guinn.burks@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6-21-07 Phone: 432-556-9143		

* Attach Additional Sheets If Necessary