

DELINEATION PROPOSAL

NORTH MONUMENT GRAYBURG

SAN ANDRES UNIT #603

NMOCD 1RP# 1019 8.31.06

EPI REF: 240014

UL-C (NE¼ OF THE NW¼) OF SECTION 20 T19S R37E

~2 MILES NORTH-NORTHWEST OF MONUMENT

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 39' 04.30"

LONGITUDE: W 103° 16' 33.43"

AUGUST 2006

PREPARED BY:

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

PREPARED FOR:



9.20.06 11 AM
FASD TO SUBMIT
ADDENDUM TO ADD
BORE SIDE OF PROPOSED
SB # 3
SP



Distribution List

Apache Corporation – North Monument Grayburg San Andres Unit #603
NMOCD 1RP# 1019; EPI Ref: 240014

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	NMOCD – Hobbs	1625 French Drive Hobbs, NM 88240	larry.johnson@state.nm.us
Mike Warren	Senior Production Foreman	Apache Corporation - Monument	17 Hess Lane Monument, NM 88262	mike.warren@apachecorp.com
Jimmy Cooper	Landowner	--	Box 55 Monument, NM 88256	--
File	--	Environmental Plus, Inc.	P.O. Box 1558 Eunice, NM 88231	jstegemoller@envvplus.net



STANDARD OF CARE

Delineation Proposal

North Monument Grayburg San Andres Unit #603

NMOCD 1RP # 1019

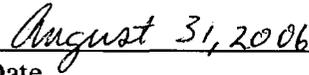
(EPI Ref. #240014)

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:



Jason Stegemoller
Environmental Scientist

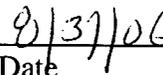


Date

This report was reviewed by:



David Duncan
Civil Engineer



Date



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1.0 PROJECT SYNOPSIS

Site Specific:

- ◆ **Company Name:** Apache Corporation
- ◆ **Facility Name:** North Monument Grayburg San Andres Unit #603
- ◆ **Project Reference:** NMOCD 1RP # 1019; EPI # 240014
- ◆ **Company Contacts:** Mike Warren
- ◆ **Site Location:** WGS84 N32° 39' 04.30"; W103° 16' 33.43"
- ◆ **Legal Description:** Unit Letter-C, (NE¼ of the NW¼), Section 20, T 19S, R 37E
- ◆ **General Description:** Approximately 2-miles north-northwest of Monument, New Mexico
- ◆ **Elevation:** 3,680-ft amsl
- ◆ **Land Ownership:** Jimmy T. Cooper
- ◆ **EPI Personnel:** Project Consultant – Jason Stegemoller

Release Specific:

- ◆ **Product Released:** Injection Water
- ◆ **Volume Released:** 85 barrels **Volume Recovered:** 60 barrels
- ◆ **Time of Occurrence:** July 16, 2006 a.m. **Time of Discovery:** July 16, 2006 @ 08:45 hrs
- ◆ **Release Source:** Plug blew out on injection line
- ◆ **Initial Surface Area Affected:** ~ 42,770 - square feet

Remediation Specific:

- ◆ **Final Vertical extent of contamination:** unknown
- ◆ **Depth to Ground Water:** Approximately 50-ft bgs (based on an average depth of wells nearest the release site)
- ◆ **Water wells within 1,000-ft:** None
- ◆ **Private domestic water sources within 200-ft:** None
- ◆ **Surface water bodies within 1,000-ft:** None at the point of release; however an ephemeral pond resides approximately 75-feet south of the southernmost point of the flowpath.
- ◆ **NMOCD Site Ranking Index:** 20 points
- ◆ **Remedial goals for Soil:** TPH – 100 mg/Kg; BTEX – 50 mg/Kg; Benzene – 10 mg/Kg; Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 mg/L and 600 mg/L, respectively.
- ◆ **RCRA Waste Classification:** Exempt
- ◆ **Remediation Option Selected:** Not applicable
- ◆ **Disposal Facility:** Not applicable
- ◆ **Volume disposed:** Not applicable
- ◆ **Project Completion Date:** Ongoing



2.0 SITE AND RELEASE INFORMATION

- 2.1 **Describe the land use and pertinent geographic features within 1,000 feet of the 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.**
Plug on injection line blew out.
- 2.3 **What is the volume of the release? (if known):** approximately 85 barrels of injection water
- 2.4 **What is the volume recovered? (if any):** approximately 60 barrels
- 2.5 **When did the release occur? (if known):** July 16, 2006
- 2.6 **Geological Description**
The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The release site is located in the Laguna Valley physiographic subdivision, described by Nicholson & Clebsch as an area that "is a vast sand dune area, stable or semi-stable over most of the area, but which drifts locally. The surface is very irregular and has no drainage features except at the edges of several playas."
- 2.7 **Ecological Description**
The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of sandy soil covered with short semi-arid grasses, interspersed with Honey Mesquite and forbs. 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**
The unconfined groundwater aquifer at this site is projected to be ~50 feet (ft) bgs based on water depth data obtained from the New Mexico State Engineers Office and the United States Geological Survey data base (reference *Table 2*).
- 2.9 **Area Water Wells**
There are no wells within a 1,000-foot radius of the site. (reference *Table 1* and *Figure 2*).
- 2.10 **Area Surface Water Features**
There are no surface water features within a 1,000-foot radius of the point of release (reference *Figure 2*). However, an ephemeral pond resides approximately 75-feet south of the southernmost portion of the flowpath.



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 groundwater);*
- ◆ *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 twenty points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. GROUNDWATER		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 + 0 + 0 = 20 points					
Total Site Ranking Score and Acceptable Remedial Goal Concentrations					
Parameter	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: July 25 through August 3, 2006

Total volume removed: Approximately 1,344-cubic yards

4.2 *Indicated soil treatment type:*

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

Name and location of treatment/disposal facility:

Sundance Services, Eunice, New Mexico



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 was placed in a polyethylene bag and allowed sufficient time and temperature for organic vapors to volatilize. The detector portion of a Photoionization Detector equipped with a 10.6 electron volt lamp was placed in the bag to analyze organic vapor concentration.

Chloride Concentrations – A La Motte Chloride Test Kit was utilized for field chloride concentration analyses.

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

Soil samples collected 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.

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 total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX), chloride and sulfate concentrations.

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

Soil samples were collected on July 25, 26 and 31 and August 1 and 2, 2006 from 26 locations within the excavation area utilizing a backhoe. Soil samples were collected at a depth of 1-ft bgs. Soil sample locations were chosen to provide the best representative example of soil within the excavation floor (reference *Figure 4*).



6.0 ANALYTICAL RESULTS

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

Laboratory analyses of the excavation soil samples indicated BTEX constituent concentrations were non-detectable (ND) at or above laboratory analytical method detection limits (MDL). TPH was reported as ND at or above laboratory analytical MDL, with the exception of the collected from BH-21 (6"). Analytical results of BH-21 (6") indicated TPH concentrations were 71 mg/Kg, below the NMOCD remedial threshold of 100 mg/Kg. Reported chloride concentrations ranged from 126 to 2,110 mg/Kg. Sulfate concentrations ranged from 17.6 to 2,380 mg/Kg (reference *Table 1* and *Figure 4*).

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.

Visibly stained soil was excavated and transported to Sundance Services for disposal.



7.0 **DISCUSSION**

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

Laboratory analytical results indicated TPH and BTEX constituent concentrations were below NMOCD remedial thresholds. Chloride residuals exist below the current excavation floor. Based on depth to groundwater (approximately 50- ft bgs), chloride residuals remaining in the excavation floor may be capable of impacting groundwater above NMWQCC groundwater standards.

7.2 ***Discuss the risks associated with the impacted groundwater:*** Chloride residuals remaining in the soil may be capable of impacting local groundwater above the NMWQCC groundwater standard of 250 mg/L.

7.3 ***Discuss other concerns not mentioned above:*** NA



8.0 CONCLUSIONS AND RECOMMENDATIONS

- 8.1 *Recommendation for the site:*
- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | <i>Site Closure</i> |
| <input type="checkbox"/> | <i>Additional Groundwater Monitoring</i> |
| <input checked="" type="checkbox"/> | <i>Corrective Action</i> |

- 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.***

Approximately 1,344 cubic yards of impacted soil were removed from an excavation area of approximately 42,770 square feet to a depth of 1-ft bgs in the pasture area and 6-inches bgs on the caliche well pad and road. Excavated soil was transported to Sundance Services for disposal.

Laboratory analytical results of soil samples collected by EPI personnel from the excavation floor indicate TPH and BTEX constituent concentrations were below each analytes' respective NMOCD remedial threshold. Chloride concentrations at 1-ft bgs were in excess of the remediation goal of 250 mg/Kg in 21 of 26 sample locations. Reported sulfate concentrations were below the 600 mg/Kg remedial goal in all sample locations, except sample BH-25 (6").

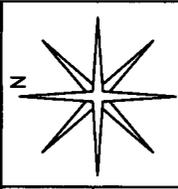
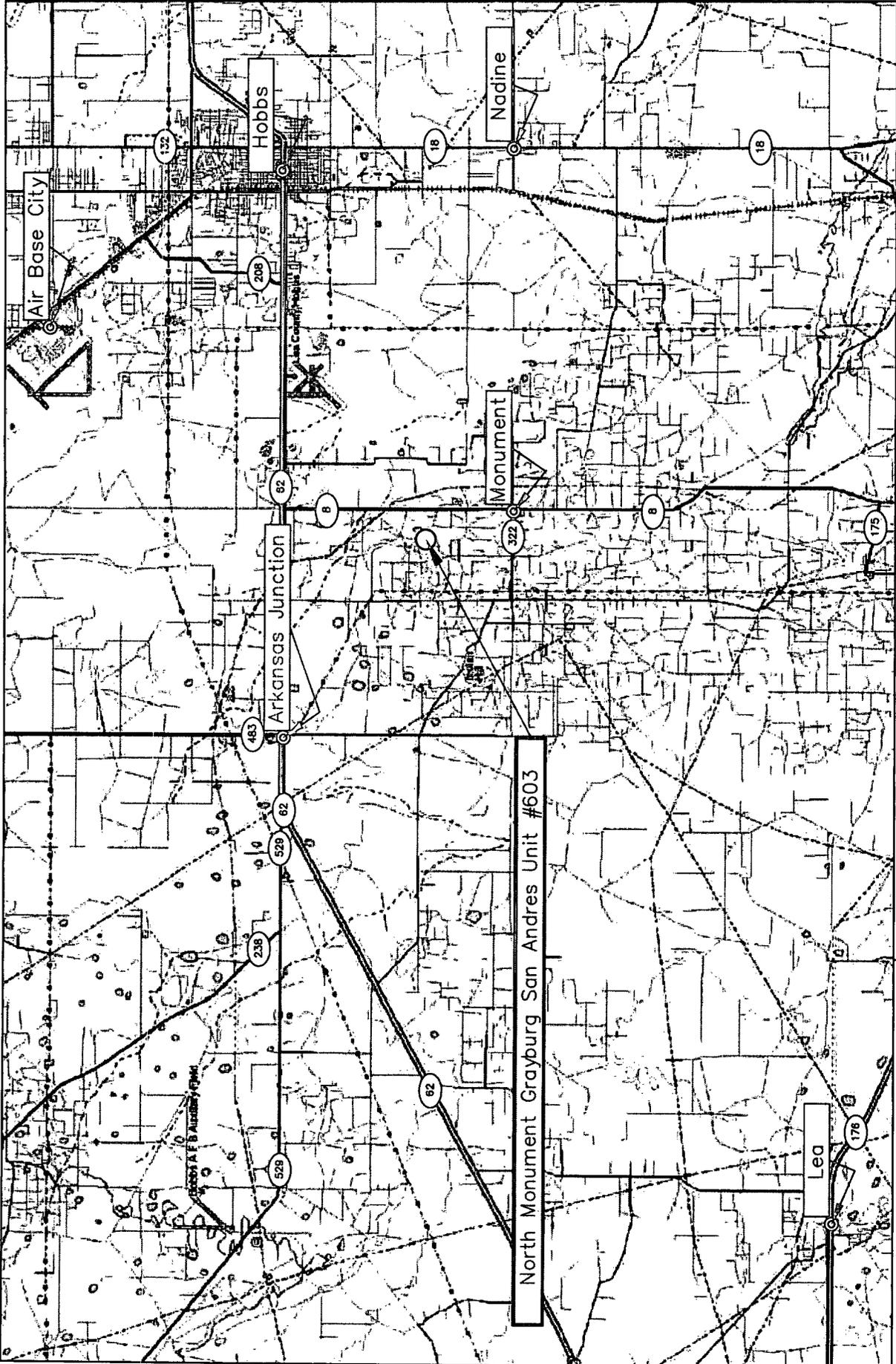
- 8.3 ***If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.*** NA

- 8.4 ***If corrective action is recommended, provide a conceptual approach.***

Based on laboratory analyses, chloride impacted soil remains below 1-ft bgs. Laboratory analyses of soil samples collected from the excavation floor indicate TPH and BTEX constituents were below each analytes' respective NMOCD remedial threshold.

Environmental Plus, Inc., on behalf of Apache, recommends three soil borings be advanced to delineate the vertical extent of chloride impacted soil. One soil boring shall be advanced west of the Lanexco Gas Well Pad (i.e., where injection water pooled during the initial release). The remaining two soil borings shall be advanced in the flowpath area of the pasture (reference *Figure 5*).

FIGURES



DWG By: Daniel Dominguez
 July 2006

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 Miles

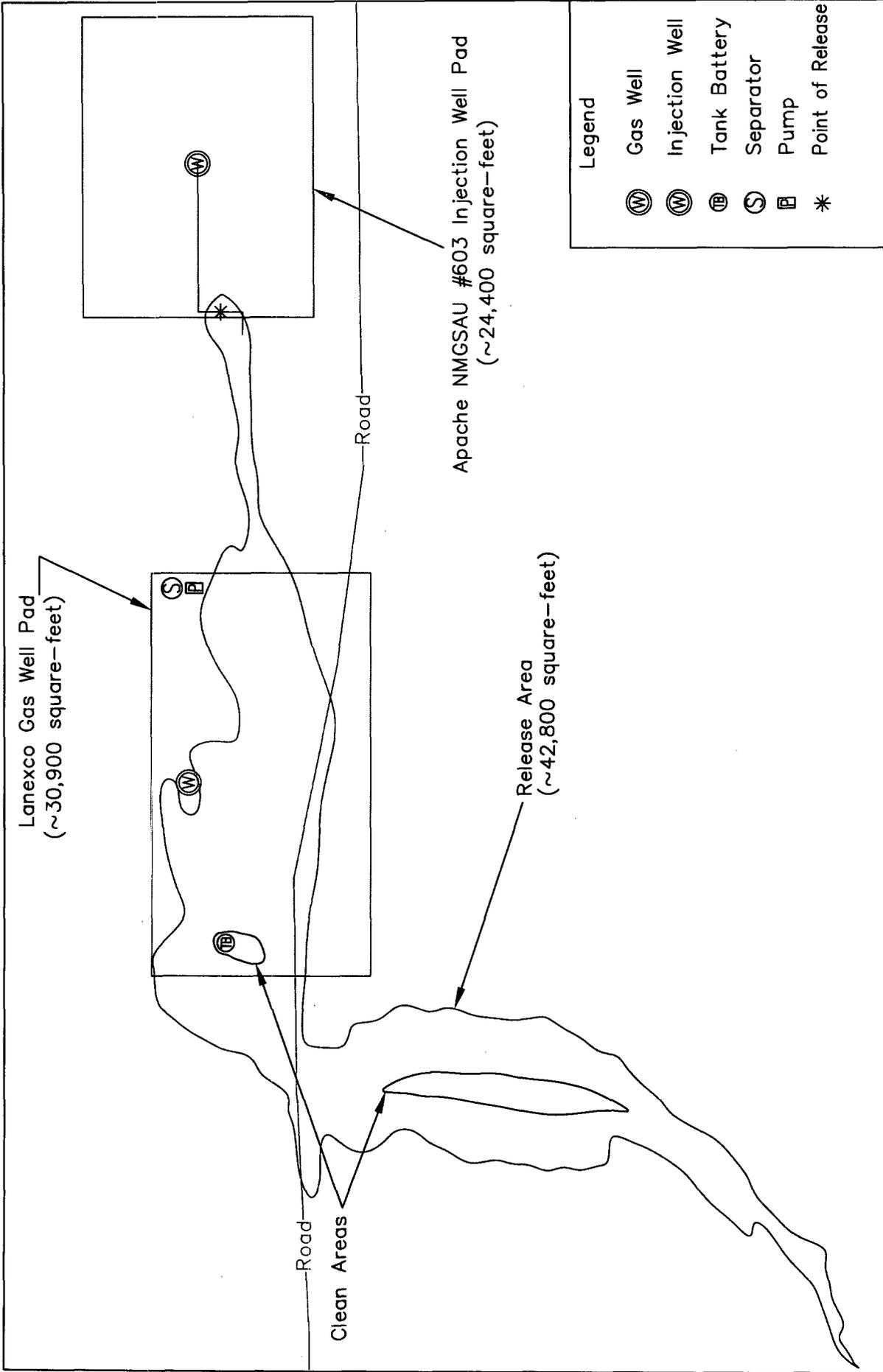
SHEET
 1 of 1

Lea County, New Mexico
 NE 1/4 of the NW 1/4, Sec. 20, T19S, R37E
 N 32° 39' 04.3" W 103° 16' 33.43"
 Elevation: 3,680 feet amsl

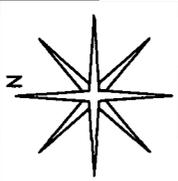
Figure 1
 Area Map
 Apache Corporation
 North Monument Grayburg
 San Andres Unit #603



<p>Figure 2 Site Location Map Apache Corporation North Monument Grayburg San Andres Unit #603</p>	<p>Lea County, New Mexico NE 1/4 of the NW 1/4, Sec. 20, T19S, R37E N 32° 39' 04.3" W 103° 16' 33.43" Elevation: 3,680 feet amsl</p>	<p>DWG By: Daniel Dominguez July 2006</p> <p>REVISED:</p> <p>0 2,000 4,000 SHEET Feet 1 of 1</p>
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- Legend
- (W) Gas Well
 - (W) Injection Well
 - (TB) Tank Battery
 - (S) Separator
 - (P) Pump
 - * Point of Release

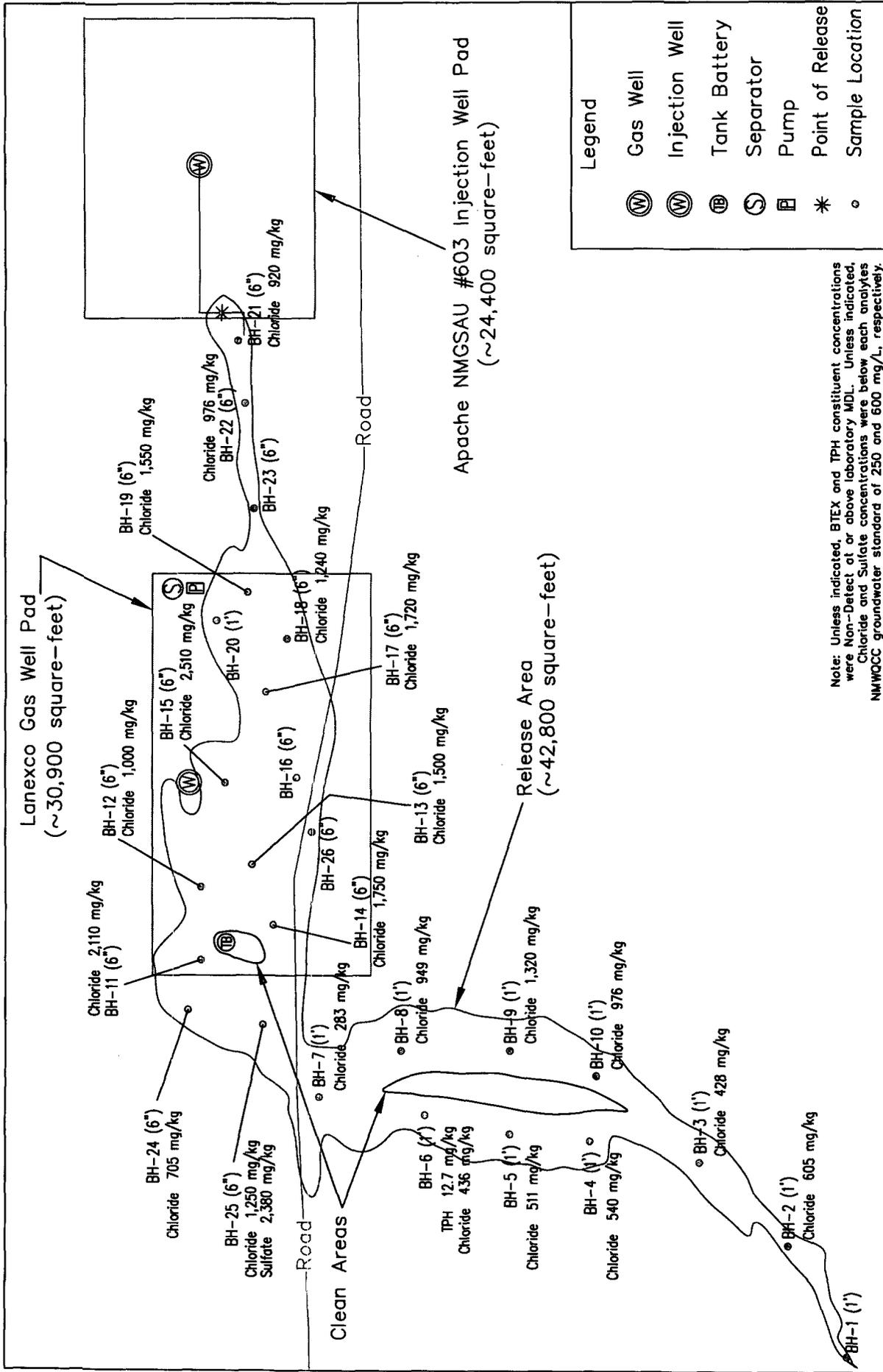


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1 of 1

DWG By: Daniel Dominguez
July 2006

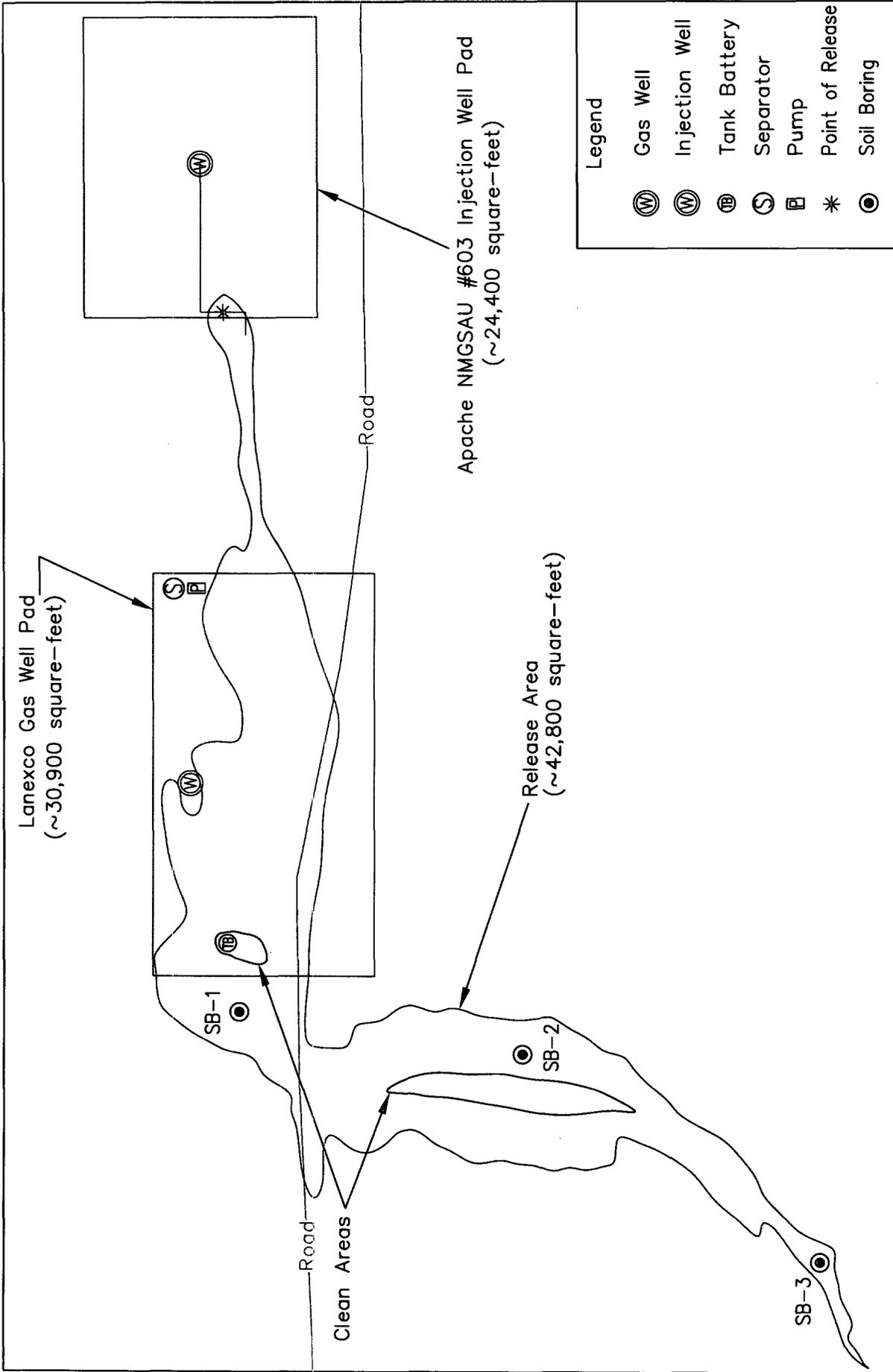
Lea County, New Mexico
NE 1/4 of the NW 1/4, Sec. 20, T19S, R37E
N 32° 39' 04.3" W 103° 16' 33.43"
Elevation: 3,680 feet amsl

Figure 3
Site Map
Apache Corporation
North Monument Grayburg
San Andres Unit #603



Note: Unless indicated, BTEX and TPH constituent concentrations were Non-Detect at or above laboratory MDL. Unless indicated, Chloride and Sulfate concentrations were below each analytes NMWQCC groundwater standard of 250 and 600 mg/L, respectively.

<p>Figure 4</p> <p>Excavation Sample Location Map</p> <p>Apache Corporation</p> <p>North Monument Grayburg</p> <p>San Andres Unit #603</p>	<p>Lea County, New Mexico</p> <p>NE 1/4 of the NW 1/4, Sec. 20, T19S, R37E</p> <p>N 32° 39' 04.3" W 103° 16' 33.43"</p> <p>Elevation: 3,680 feet amsl</p>	<p>DWG By: Daniel Dominguez</p> <p>July 2006</p>	<p>REVISID:</p> <p>SHEET 1 of 1</p>
	<p>Scale: 0 to 160 Feet</p>		



Legend

(W)	Gas Well
(W)	Injection Well
(TB)	Tank Battery
(S)	Separator
(P)	Pump
*	Point of Release
(●)	Soil Boring

REVISID:

DWG By: Daniel Dominguez
July 2006

SHEET
1 of 1

Lea County, New Mexico
NE 1/4 of the NW 1/4, Sec. 20, T19S, R37E
N 32° 39' 04.3" W 103° 16' 33.43"
Elevation: 3,680 feet amsl

Figure 5
Proposed Soil Boring Location Map
Apache Corporation
North Monument Grayburg
San Andres Unit #603

TABLES

TABLE 1

Well Data

Apache Corporation - North Monument Grayburg San Andres Unit #603 (Ref. # 240014)

Well Number	Diversion ^A	Owner	Use	Twp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water	
											(ft bgs)	
L 01975 APPRO	3	O & W DRLG. CO.	PRO	19S	37E	16 4 3	N32° 39' 10.30"	W103° 15' 21.56"	12-Feb-53	3,638		20
L 03185	3	CARPER DRILLING CO.	PRO	19S	37E	16 2 4	N32° 39' 36.37"	W103° 15' 6.16"	24-Apr-56	3,668		45
L 03228	3	MAKIN DRILLING COMPANY	PRO	19S	37E	16 4 4	N32° 39' 10.26"	W103° 15' 6.14"	18-Jun-56	3,641		42
L 06933 (E)	0	GULF OIL CORPORATION	PRO	19S	37E	17 4 2 3	N32° 39' 23.47"	W103° 16' 7.86"	12-Apr-72	3,678		65
L 02033	0	MONUMENT WATER USERS	DOM	19S	37E	18 1 1 1	N32° 39' 50.42"	W103° 17' 55.35"	12-Sep-47	3,717		35
L 10271 EXPL	0	INC. SNYDER RANCHES	EXP	19S	37E	18 1 1 1	N32° 39' 50.42"	W103° 17' 55.35"	13-Jul-92	3,717		70
L 04313	3	MCVAY AND STAFFORD DRILLING CO	PRO	19S	37E	19 1 1	N32° 38' 58.03"	W103° 17' 55.36"	23-Oct-59	3,704		52
L 10277	3	INC. SNYDER RANCHES	STK	19S	37E	19 4 2 2	N32° 38' 31.48"	W103° 17' 9.65"	10-Jul-92	3,678		40
L 02621	3	LA MANCE DRILLING COMPANY	PRO	19S	37E	21 3 2 3	N32° 38' 31.20"	W103° 15' 37.02"	14-Sep-54	3,642		40
L 04108	3	R.H. HUSTON	PRO	19S	37E	21 4 2	N32° 38' 31.15"	W103° 15' 6.17"	01-Apr-59	3,619		22
L 05336	0	GULF OIL CORPORATION	PRO	19S	37E	21 1 2 4	N32° 38' 57.29"	W103° 15' 37.00"	15-Feb-64	3,639		30
L 09163	3	LEROY LOTT	DOM	19S	37E	21 2 3 2	N32° 38' 44.21"	W103° 15' 21.58"	16-Apr-83	3,632		47
L 10238	3	W. S. ISRAEL	DOM	19S	37E	21 3 4 3	N32° 38' 18.16"	W103° 15' 37.03"	19-Mar-92	3,637		30
L 10295	3	TERRY ISRAEL	DOM	19S	37E	21 3 4 3	N32° 38' 18.16"	W103° 15' 37.03"	29-Oct-92	3,637		30
USGS #1				19S	37E	16 2 3 3			08-Mar-91	3,648		26.94
USGS #2				19S	37E	17 1 3 4			27-Feb-96	3,706		62.54
USGS #3				19S	37E	17 4 3 1			24-Apr-91	3,670		36.96
USGS #4				19S	37E	18 3 3 1			18-Mar-54	3,701		51.93
USGS #5				19S	37E	18 1 1 1			22-Feb-91	3,716		63.87
USGS #6				19S	37E	19 3 2 1			21-Feb-91	3,670		58.43
USGS #7				19S	37E	19 1 1 3			06-Mar-96	3,702		57.31
USGS #8				19S	37E	20 2 3 1			19-Apr-68	3,662		47.85
USGS #9				19S	37E	21 1 3 2			29-Feb-96	3,640		24.13
USGS #10				19S	37E	21 4 3 1			09-Jan-86	3,614		16.19
USGS #17				19S	37E	30 1 1 1			11-Feb-66	3,654		26.88

TABLE 2

Summary of Excavation Soil Sample Laboratory Analytical Results

Apache Corporation - North Monument Grayburg San Andres Unit #603 (Ref. #240014)

Sample I.D.	Depth (feet)	PID analysis	Field Chloride Analysis	Soil Status	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon C6-C12 Range (mg/Kg)	Carbon C12-C28 Range (mg/Kg)	Carbon C28-C35 Range (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
BH-1 (1')	1	8.9	240	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	126	43.0
BH-2 (1')	1	12.4	960	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	605	111
BH-3 (1')	1	0.0	520	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	7.91 ^B	<10.0	<10.0	428	63.6
BH-4 (1')	1	18.8	900	In Situ	25-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	540	151
BH-5 (1')	1	18.9	560	In Situ	25-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	511	98.5
BH-6 (1')	1	4.0	560	In Situ	25-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	12.7	8.53 ^B	12.7	436	117
BH-7 (1')	1	18.9	500	In Situ	25-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	283	49.3
BH-8 (1')	1	0.0	1,200	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	4.45 ^B	1.98 ^B	<10.0	949	131
BH-9 (1')	1	0.0	1,760	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,320	172
BH-10 (1')	1	8.3	800	In Situ	26-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	976	134
BH-11 (6")	0.5	4.3	2,000	In Situ	31-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	2,110	281
BH-12 (6")	0.5	4.1	960	In Situ	31-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,000	74.5
BH-13 (6")	0.5	4.3	1,200	In Situ	31-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,500	178
BH-14 (6")	0.5	4.1	1,760	In Situ	31-Jul-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,750	216

TABLE 2

Summary of Excavation Soil Sample Laboratory Analytical Results

Apache Corporation - North Monument Grayburg San Andres Unit #603 (Ref. #240014)

Sample I.D.	Depth (feet)	PID analysis	Field Chloride Analysis	Soil Status	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon C6-C12 Range (mg/Kg)	Carbon C12-C28 Range (mg/Kg)	Carbon C28-C35 Range (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)		
BH-15 (6")	0.5	11.1	2,000	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	2,510	146		
BH-16 (6")	0.5	0.0	400	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	226	84.6		
BH-17 (6")	0.5	0.0	1,600	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,720	290		
BH-18 (6")	0.5	0.0	1,200	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,240	176		
BH-19 (6")	0.5	0.0	1,360	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,550	253		
BH-20 (6")	0.5	0.0	160	In Situ	01-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	7.20	21.8		
BH-21 (6")	0.5	0.0	1,280	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	13.4	57.8	<10.0	71.2	920	168		
BH-22 (6")	0.5	0.0	1,280	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	976	121		
BH-23 (6")	0.5	0.0	120	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	6.09	17.6		
BH-24 (6")	0.5	18.3	1,440	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	0.0361	0.0361	<10.0	<10.0	<10.0	<10.0	705	65.3		
BH-25 (6")	0.5	19.5	1,040	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	1,250	2,380		
BH-26 (6")	0.5	0.0	320	In Situ	02-Aug-06	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<10.0	<10.0	136	151		
NMOCD Remedial Thresholds														10	50	100	250 ^A	600 ^A

Bolded values are in excess of NMOCD Remediation Thresholds

-- = Not Analyzed

^AChloride and Sulfate residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L and 650 mg/L respectively.

^B = Estimated value, analyte detected below reporting limit.

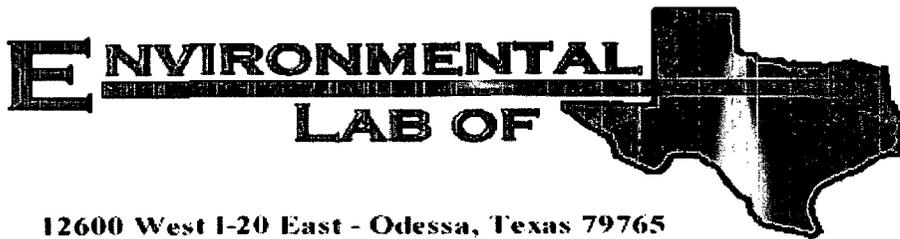
APPENDICES

APPENDIX I

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY FORM



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jason Stegemoller

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Apache/ N. Mon. Grayburg SA 603

Project Number: 240014

Location: UL-C, Sect. 20, T 19 S, R 37 E

Lab Order Number: 6G28008

Report Date: 08/03/06

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 1'	6G28008-01	Soil	2006-07-26 10:15	2006-07-28 10:50
BH-2 1'	6G28008-02	Soil	2006-07-26 10:35	2006-07-28 10:50
BH-3 1'	6G28008-03	Soil	2006-07-26 10:45	2006-07-28 10:50
BH-4 1'	6G28008-04	Soil	2006-07-25 10:20	2006-07-28 10:50
BH-5 1'	6G28008-05	Soil	2006-07-25 10:40	2006-07-28 10:50
BH-6 1'	6G28008-06	Soil	2006-07-25 13:30	2006-07-28 10:50
BH-7 1'	6G28008-07	Soil	2006-07-25 13:45	2006-07-28 10:50
BH-8 1'	6G28008-08	Soil	2006-07-26 13:15	2006-07-28 10:50
BH-9 1'	6G28008-09	Soil	2006-07-26 13:30	2006-07-28 10:50
BH-10 1'	6G28008-10	Soil	2006-07-26 13:45	2006-07-28 10:50

Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 1' (6G28008-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		113 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		111 %	70-130		"	"	"	"	
BH-2 1' (6G28008-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		111 %	70-130		"	"	"	"	
BH-3 1' (6G28008-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 1' (6G28008-03) Soil									
Carbon Ranges C12-C28	J [7.91]	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		117 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		115 %	70-130	"	"	"	"	"	
BH-4 1' (6G28008-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.0 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130	"	"	"	"	"	
BH-5 1' (6G28008-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.2 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.0 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130	"	"	"	"	"	

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Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 1' (6G28008-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	12.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [8.53]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	12.7	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		115 %	70-130		"	"	"	"	
BH-7 1' (6G28008-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		115 %	70-130		"	"	"	"	
BH-8 1' (6G28008-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	

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Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-8 1' (6G28008-08) Soil									
Carbon Ranges C12-C28	J [4.45]	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	J
Carbon Ranges C28-C35	J [1.98]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		116 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %		70-130	"	"	"	"	
BH-9 1' (6G28008-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.8 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %		80-120	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		113 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %		70-130	"	"	"	"	
BH-10 1' (6G28008-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.0 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %		80-120	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62817	07/28/06	07/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %		70-130	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 1' (6G28008-01) Soil									
Chloride	126	5.00	mg/kg	10	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	11.0	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	43.0	5.00	mg/kg	10	EG63104	"	07/31/06	EPA 300.0	
BH-2 1' (6G28008-02) Soil									
Chloride	605	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	11.5	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	111	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	
BH-3 1' (6G28008-03) Soil									
Chloride	428	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	3.1	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	63.6	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	
BH-4 1' (6G28008-04) Soil									
Chloride	540	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	14.6	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	151	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	
BH-5 1' (6G28008-05) Soil									
Chloride	511	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	16.1	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	98.5	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	
BH-6 1' (6G28008-06) Soil									
Chloride	436	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	12.0	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	117	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	
BH-7 1' (6G28008-07) Soil									
Chloride	283	10.0	mg/kg	20	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	8.7	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	49.3	10.0	mg/kg	20	EG63104	"	07/31/06	EPA 300.0	

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

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
BH-8 1' (6G28008-08) Soil									
Chloride	949	20.0	mg/kg	40	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	5.5	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	131	20.0	mg/kg	40	EG63104	"	07/31/06	EPA 300.0	
BH-9 1' (6G28008-09) Soil									
Chloride	1320	25.0	mg/kg	50	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	6.8	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	172	25.0	mg/kg	50	EG63104	"	07/31/06	EPA 300.0	
BH-10 1' (6G28008-10) Soil									
Chloride	976	20.0	mg/kg	40	EG63104	07/28/06	07/31/06	EPA 300.0	
% Moisture	11.2	0.1	%	1	EG63118	"	07/31/06	% calculation	
Sulfate	134	20.0	mg/kg	40	EG63104	"	07/31/06	EPA 300.0	

Environmental Lab of Texas

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Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62817 - Solvent Extraction (GC)										
Blank (EG62817-BLK1)					Prepared: 07/28/06 Analyzed: 07/30/06					
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	64.7		mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	64.1		"	50.0		128	70-130			
LCS (EG62817-BS1)					Prepared: 07/28/06 Analyzed: 07/30/06					
Carbon Ranges C6-C12	574	10.0	mg/kg wet	500		115	75-125			
Carbon Ranges C12-C28	417	10.0	"	500		83.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	991	10.0	"	1000		99.1	75-125			
Surrogate: 1-Chlorooctane	62.8		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	63.4		"	50.0		127	70-130			
Calibration Check (EG62817-CCV1)					Prepared: 07/28/06 Analyzed: 07/31/06					
Carbon Ranges C6-C12	298		mg/kg	250		119	80-120			
Carbon Ranges C12-C28	228		"	250		91.2	80-120			
Total Hydrocarbons	526		"	500		105	80-120			
Surrogate: 1-Chlorooctane	83.3		"	100		83.3	70-130			
Surrogate: 1-Chlorooctadecane	80.8		"	100		80.8	70-130			
Matrix Spike (EG62817-MS1)					Source: 6G28008-02 Prepared: 07/28/06 Analyzed: 07/31/06					
Carbon Ranges C6-C12	663	10.0	mg/kg dry	565	ND	117	75-125			
Carbon Ranges C12-C28	501	10.0	"	565	ND	88.7	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1160	10.0	"	1130	ND	103	75-125			
Surrogate: 1-Chlorooctane	62.2		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	63.3		"	50.0		127	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62817 - Solvent Extraction (GC)

Matrix Spike Dup (EG62817-MSD1)	Source: 6G28008-02	Prepared: 07/28/06	Analyzed: 07/30/06							
Carbon Ranges C6-C12	654	10.0	mg/kg dry	565	ND	116	75-125	1.37	20	
Carbon Ranges C12-C28	474	10.0	"	565	ND	83.9	75-125	5.54	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1130	10.0	"	1130	ND	100	75-125	2.62	20	
Surrogate: 1-Chlorooctane	61.6		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	64.9		"	50.0		130	70-130			

Batch EG63119 - EPA 5030C (GC)

Blank (EG63119-BLK1)	Prepared & Analyzed: 07/31/06									
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/kg	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			

LCS (EG63119-BS1)	Prepared & Analyzed: 07/31/06									
Benzene	1.27	0.0250	mg/kg wet	1.25		102	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.23	0.0250	"	1.25		98.4	80-120			
Xylene (p/m)	2.74	0.0250	"	2.50		110	80-120			
Xylene (o)	1.37	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.5		ug/kg	40.0		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	80-120			

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**Organics by GC - Quality Control
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG63119 - EPA 5030C (GC)

Calibration Check (EG63119-CCV1)

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	51.5		ug/kg	50.0		103	80-120			
Toluene	49.9		"	50.0		99.8	80-120			
Ethylbenzene	51.7		"	50.0		103	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	50.8		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		"	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	33.7		"	40.0		84.2	80-120			

Matrix Spike (EG63119-MS1)

Source: 6G28008-01

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	1.51	0.0250	mg/kg dry	1.40	ND	108	80-120			
Toluene	1.52	0.0250	"	1.40	ND	109	80-120			
Ethylbenzene	1.47	0.0250	"	1.40	ND	105	80-120			
Xylene (p/m)	3.25	0.0250	"	2.81	ND	116	80-120			
Xylene (o)	1.58	0.0250	"	1.40	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.5		ug/kg	40.0		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.9		"	40.0		102	80-120			

Matrix Spike Dup (EG63119-MSD1)

Source: 6G28008-01

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	1.43	0.0250	mg/kg dry	1.40	ND	102	80-120	5.71	20	
Toluene	1.41	0.0250	"	1.40	ND	101	80-120	7.62	20	
Ethylbenzene	1.35	0.0250	"	1.40	ND	96.4	80-120	8.54	20	
Xylene (p/m)	3.00	0.0250	"	2.81	ND	107	80-120	8.07	20	
Xylene (o)	1.49	0.0250	"	1.40	ND	106	80-120	6.39	20	
Surrogate: a,a,a-Trifluorotoluene	40.4		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			

Batch EH60114 - EPA 5030C (GC)

Blank (EH60114-BLK1)

Prepared: 08/01/06 Analyzed: 08/02/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	35.5		ug/kg	40.0		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.2		"	40.0		83.0	80-120			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60114 - EPA 5030C (GC)

LCS (EH60114-BS1)

Prepared: 08/01/06 Analyzed: 08/02/06

Benzene	1.20	0.0250	mg/kg wet	1.25		96.0	80-120			
Toluene	1.27	0.0250	"	1.25		102	80-120			
Ethylbenzene	1.13	0.0250	"	1.25		90.4	80-120			
Xylene (p/m)	2.68	0.0250	"	2.50		107	80-120			
Xylene (o)	1.33	0.0250	"	1.25		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	38.8		"	40.0		97.0	80-120			

Calibration Check (EH60114-CCV1)

Prepared: 08/01/06 Analyzed: 08/02/06

Benzene	53.8		ug/kg	50.0		108	80-120			
Toluene	54.3		"	50.0		109	80-120			
Ethylbenzene	51.0		"	50.0		102	80-120			
Xylene (p/m)	110		"	100		110	80-120			
Xylene (o)	54.8		"	50.0		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.1		"	40.0		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.0		"	40.0		82.5	80-120			

Matrix Spike (EH60114-MS1)

Source: 6G28010-01

Prepared: 08/01/06 Analyzed: 08/02/06

Benzene	1.43	0.0250	mg/kg dry	1.39	ND	103	80-120			
Toluene	1.44	0.0250	"	1.39	ND	104	80-120			
Ethylbenzene	1.37	0.0250	"	1.39	ND	98.6	80-120			
Xylene (p/m)	3.09	0.0250	"	2.78	ND	111	80-120			
Xylene (o)	1.51	0.0250	"	1.39	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.9		ug/kg	40.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Matrix Spike Dup (EH60114-MSD1)

Source: 6G28010-01

Prepared: 08/01/06 Analyzed: 08/02/06

Benzene	1.30	0.0250	mg/kg dry	1.39	ND	93.5	80-120	9.67	20	
Toluene	1.37	0.0250	"	1.39	ND	98.6	80-120	5.33	20	
Ethylbenzene	1.29	0.0250	"	1.39	ND	92.8	80-120	6.06	20	
Xylene (p/m)	2.88	0.0250	"	2.78	ND	104	80-120	6.51	20	
Xylene (o)	1.42	0.0250	"	1.39	ND	102	80-120	6.64	20	
Surrogate: a,a,a-Trifluorotoluene	32.7		ug/kg	40.0		81.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

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**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 EG63104 - General Preparation (WetChem)										
Blank (EG63104-BLK1) Prepared: 07/28/06 Analyzed: 07/31/06										
Chloride	ND	0.500	mg/kg							
Sulfate	ND	0.500	"							
LCS (EG63104-BS1) Prepared: 07/28/06 Analyzed: 07/31/06										
Sulfate	10.4	0.500	mg/kg	10.0		104	80-120			
Chloride	9.56	0.500	"	10.0		95.6	80-120			
Calibration Check (EG63104-CCV1) Prepared: 07/28/06 Analyzed: 07/31/06										
Sulfate	10.1		mg/L	10.0		101	80-120			
Chloride	10.1		"	10.0		101	80-120			
Duplicate (EG63104-DUP1) Source: 6G21001-01 Prepared: 07/28/06 Analyzed: 07/31/06										
Sulfate	560	5.00	mg/kg		523			6.83	20	
Chloride	344	5.00	"		320			7.23	20	
Duplicate (EG63104-DUP2) Source: 6G28008-09 Prepared: 07/28/06 Analyzed: 07/31/06										
Sulfate	177	25.0	mg/kg		172			2.87	20	
Chloride	1350	25.0	"		1320			2.25	20	
Matrix Spike (EG63104-MS1) Source: 6G21001-01 Prepared: 07/28/06 Analyzed: 07/31/06										
Chloride	452	5.00	mg/kg	100	320	132	80-120			S-07
Sulfate	625	5.00	"	100	523	102	75-125			
Matrix Spike (EG63104-MS2) Source: 6G28008-09 Prepared: 07/28/06 Analyzed: 07/31/06										
Sulfate	669	25.0	mg/kg	500	172	99.4	75-125			
Chloride	1890	25.0	"	500	1320	114	80-120			

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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 EG63118 - General Preparation (Prep)										
Blank (EG63118-BLK1) Prepared: 07/28/06 Analyzed: 07/31/06										
% Moisture	ND	0.1	%							
Duplicate (EG63118-DUP1) Source: 6G21001-01 Prepared: 07/28/06 Analyzed: 07/31/06										
% Solids	90.8		%		91.9			1.20	20	
Duplicate (EG63118-DUP2) Source: 6G28008-03 Prepared: 07/28/06 Analyzed: 07/31/06										
% Solids	97.4		%		96.9			0.515	20	
Duplicate (EG63118-DUP3) Source: 6G28013-01 Prepared: 07/28/06 Analyzed: 07/31/06										
% Solids	93.9		%		93.5			0.427	20	

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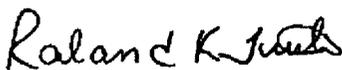
Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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:

8/3/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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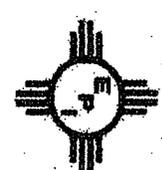
2100 Avenue O, Eunice, NM 88231
 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

1 of 4

Company Name: Environmental Plus, Inc.
 EPI Project Manager: Jason Stegemoller
 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: N. Mon. Grayburg SA 603
 Location: UL-C, Sec 20, T19S, R37E
 Project Reference: 240014
 EPI Sampler Name: Jacob Melancon


 Attn: Iain Olness
 P.O. Box 1558
 Eunice, NM 88231

LAB I.D.	SAMPLE I.D.	(G)GRAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE		ICE/COOL	OTHER								
01	BH-1 (1)	G	1			1						X									
02	BH-2 (1)	G	1			1						X									
03	BH-3 (1)	G	1			1						X									
04	BH-4 (1)	G	1			1						X									
05	BH-5 (1)	G	1			1						X									
06	BH-6 (1)	G	1			1						X									
07	BH-7 (1)	G	1			1						X									
08	BH-8 (1)	G	1			1						X									
09	BH-9 (1)	G	1			1						X									
10	BH-10 (1)	G	1			1						X									

Sampler Relinquished: *Jacob Melancon*
 Date: 7-28
 Time: 7:30
 Relinquished By: *Jacob Melancon*
 Date: 7-28
 Time: 10:50
 Received By: *Jacob Melancon*
 Date: 7-28
 Time: 10:50
 Sample Cool & Intact: Yes No
 Checked By: *Jacob Melancon*

NOTES:
 E-mail results to: jstegemoller@envyplus.net
 2.5°C
 w/ 1000g
 462 g/l

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: EPI
 Date/ Time: 7/28/06 10:50
 Lab ID #: 6918008
 Initials: CK

Sample Receipt Checklist

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

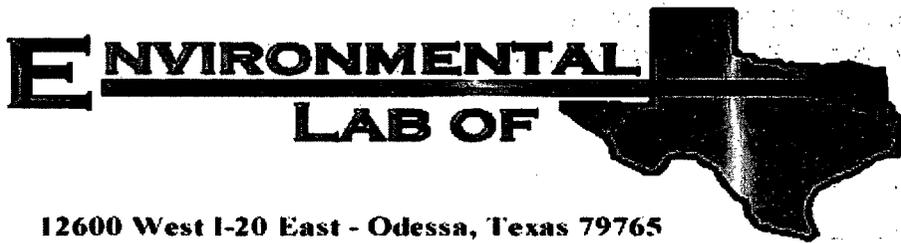
Variance Documentation

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



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jason Stegemoller

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Apache/ N. Mon. Grayburg SA 603

Project Number: 240014

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

Lab Order Number: 6H02006

Report Date: 08/08/06

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-11 6"	6H02006-01	Soil	2006-07-31 08:30	2006-08-02 11:15
BH-12 6"	6H02006-02	Soil	2006-07-31 11:40	2006-08-02 11:15
BH-13 6"	6H02006-03	Soil	2006-07-31 13:43	2006-08-02 11:15
BH-14 6"	6H02006-04	Soil	2006-07-31 15:39	2006-08-02 11:15

Environmental Plus, Incorporated
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Eunice NM, 88231

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-11 6" (6H02006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		79.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		70.8 %	70-130		"	"	"	"	
BH-12 6" (6H02006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		78.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		71.0 %	70-130		"	"	"	"	
BH-13 6" (6H02006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	

Environmental Lab of Texas

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-13 6" (6H02006-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		79.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		71.4 %	70-130		"	"	"	"	
BH-14 6" (6H02006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		92.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	

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Project Manager: Jason Stegemoller

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
BH-11 6" (6H02006-01) Soil									
Chloride	2110	50.0	mg/kg	100	EH60204	08/02/06	08/02/06	EPA 300.0	
% Moisture	18.6	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	281	50.0	mg/kg	100	EH60204	08/02/06	08/02/06	EPA 300.0	
BH-12 6" (6H02006-02) Soil									
Chloride	1000	25.0	mg/kg	50	EH60204	08/02/06	08/02/06	EPA 300.0	
% Moisture	18.5	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	74.5	25.0	mg/kg	50	EH60204	08/02/06	08/02/06	EPA 300.0	
BH-13 6" (6H02006-03) Soil									
Chloride	1500	25.0	mg/kg	50	EH60204	08/02/06	08/02/06	EPA 300.0	
% Moisture	17.0	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	178	25.0	mg/kg	50	EH60204	08/02/06	08/02/06	EPA 300.0	
BH-14 6" (6H02006-04) Soil									
Chloride	1750	50.0	mg/kg	100	EH60204	08/02/06	08/02/06	EPA 300.0	
% Moisture	16.5	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	216	50.0	mg/kg	100	EH60204	08/02/06	08/02/06	EPA 300.0	

Environmental Lab of Texas

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Page 4 of 11

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60209 - EPA 5030C (GC)

Blank (EH60209-BLK1)

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	64.0		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	61.1		"	50.0		122	70-130			

LCS (EH60209-BS1)

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	441	10.0	mg/kg wet	500		88.2	75-125			
Carbon Ranges C12-C28	451	10.0	"	500		90.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	892	10.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	37.1		"	50.0		74.2	70-130			

Calibration Check (EH60209-CCV1)

Prepared: 08/02/06 Analyzed: 08/03/06

Carbon Ranges C6-C12	210		mg/kg	250		84.0	80-120			
Carbon Ranges C12-C28	271		"	250		108	80-120			
Total Hydrocarbons	481		"	500		96.2	80-120			
Surrogate: 1-Chlorooctane	87.7		"	100		87.7	70-130			
Surrogate: 1-Chlorooctadecane	75.9		"	100		75.9	70-130			

Matrix Spike (EH60209-MS1)

Source: 6H02005-01

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	466	10.0	mg/kg dry	520	ND	89.6	75-125			
Carbon Ranges C12-C28	479	10.0	"	520	ND	92.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	945	10.0	"	1040	ND	90.9	75-125			
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	70-130			
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60209 - EPA 5030C (GC)

Matrix Spike Dup (EH60209-MSD1)

Source: 6H02005-01

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	470	10.0	mg/kg dry	520	ND	90.4	75-125	0.855	20	
Carbon Ranges C12-C28	484	10.0	"	520	ND	93.1	75-125	1.04	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	954	10.0	"	1040	ND	91.7	75-125	0.948	20	
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	37.2		"	50.0		74.4	70-130			

Batch EH60402 - EPA 5030C (GC)

Blank (EH60402-BLK1)

Prepared & Analyzed: 08/04/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	34.6		ug/kg	40.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

LCS (EH60402-BS1)

Prepared & Analyzed: 08/04/06

Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.17	0.0250	"	1.25		93.6	80-120			
Ethylbenzene	1.15	0.0250	"	1.25		92.0	80-120			
Xylene (p/m)	2.57	0.0250	"	2.50		103	80-120			
Xylene (o)	1.28	0.0250	"	1.25		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/kg	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0		97.5	80-120			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60402 - EPA 5030C (GC)

Calibration Check (EH60402-CCV1)

Prepared: 08/04/06 Analyzed: 08/06/06

Benzene	50.6		ug/kg	50.0		101	80-120			
Toluene	49.6		"	50.0		99.2	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	51.5		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		"	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			

Matrix Spike (EH60402-MS1)

Source: 6G31011-06

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.20	0.0250	mg/kg dry	1.28	ND	93.8	80-120			
Toluene	1.21	0.0250	"	1.28	ND	94.5	80-120			
Ethylbenzene	1.24	0.0250	"	1.28	ND	96.9	80-120			
Xylene (p/m)	2.67	0.0250	"	2.56	ND	104	80-120			
Xylene (o)	1.30	0.0250	"	1.28	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.2		ug/kg	40.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.3		"	40.0		90.8	80-120			

Matrix Spike Dup (EH60402-MSD1)

Source: 6G31011-06

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.23	0.0250	mg/kg dry	1.28	ND	96.1	80-120	2.42	20	
Toluene	1.25	0.0250	"	1.28	ND	97.7	80-120	3.33	20	
Ethylbenzene	1.25	0.0250	"	1.28	ND	97.7	80-120	0.822	20	
Xylene (p/m)	2.90	0.0250	"	2.56	ND	113	80-120	8.29	20	
Xylene (o)	1.38	0.0250	"	1.28	ND	108	80-120	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	40.7		ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			

Batch EH60702 - EPA 5030C (GC)

Blank (EH60702-BLK1)

Prepared: 08/04/06 Analyzed: 08/06/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60702 - EPA 5030C (GC)

LCS (EH60702-BS1)

Prepared: 08/04/06 Analyzed: 08/06/06

Benzene	1.19	0.0250	mg/kg wet	1.25		95.2	80-120			
Toluene	1.21	0.0250	"	1.25		96.8	80-120			
Ethylbenzene	1.08	0.0250	"	1.25		86.4	80-120			
Xylene (p/m)	2.66	0.0250	"	2.50		106	80-120			
Xylene (o)	1.31	0.0250	"	1.25		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/kg	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			

Calibration Check (EH60702-CCV1)

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	50.4		ug/kg	50.0		101	80-120			
Toluene	49.1		"	50.0		98.2	80-120			
Ethylbenzene	49.4		"	50.0		98.8	80-120			
Xylene (p/m)	99.8		"	100		99.8	80-120			
Xylene (o)	48.8		"	50.0		97.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		"	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.2		"	40.0		85.5	80-120			

Matrix Spike (EH60702-MS1)

Source: 6H04011-01

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.27	0.0250	mg/kg dry	1.36	ND	93.4	80-120			
Toluene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Ethylbenzene	1.23	0.0250	"	1.36	ND	90.4	80-120			
Xylene (p/m)	2.67	0.0250	"	2.72	ND	98.2	80-120			
Xylene (o)	1.36	0.0250	"	1.36	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.8		ug/kg	40.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	35.8		"	40.0		89.5	80-120			

Matrix Spike Dup (EH60702-MSD1)

Source: 6H04011-01

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.24	0.0250	mg/kg dry	1.36	ND	91.2	80-120	2.38	20	
Toluene	1.24	0.0250	"	1.36	ND	91.2	80-120	2.38	20	
Ethylbenzene	1.20	0.0250	"	1.36	ND	88.2	80-120	2.46	20	
Xylene (p/m)	2.62	0.0250	"	2.72	ND	96.3	80-120	1.95	20	
Xylene (o)	1.31	0.0250	"	1.36	ND	96.3	80-120	3.77	20	
Surrogate: a,a,a-Trifluorotoluene	33.1		ug/kg	40.0		82.8	80-120			
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			

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 EH60204 - Water Extraction										
Blank (EH60204-BLK1)				Prepared & Analyzed: 08/02/06						
Sulfate	ND	0.500	mg/kg							
Chloride	ND	0.500	"							
LCS (EH60204-BS1)				Prepared & Analyzed: 08/02/06						
Sulfate	8.62	0.500	mg/kg	10.0		86.2	80-120			
Chloride	9.70	0.500	"	10.0		97.0	80-120			
Calibration Check (EH60204-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.83		mg/L	10.0		98.3	80-120			
Sulfate	10.9		"	10.0		109	80-120			
Duplicate (EH60204-DUP1)				Source: 6G31011-02		Prepared & Analyzed: 08/02/06				
Sulfate	154	5.00	mg/kg		149			3.30	20	
Chloride	47.1	5.00	"		48.0			1.89	20	
Duplicate (EH60204-DUP2)				Source: 6G31013-02		Prepared & Analyzed: 08/02/06				
Sulfate	126	5.00	mg/kg		127			0.791	20	
Chloride	173	5.00	"		176			1.72	20	
Matrix Spike (EH60204-MS1)				Source: 6G31011-02		Prepared & Analyzed: 08/02/06				
Chloride	152	5.00	mg/kg	100	48.0	104	80-120			
Sulfate	256	5.00	"	100	149	107	80-120			
Matrix Spike (EH60204-MS2)				Source: 6G31013-02		Prepared & Analyzed: 08/02/06				
Chloride	285	5.00	mg/kg	100	176	109	80-120			
Sulfate	234	5.00	"	100	127	107	80-120			

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
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Batch EH60302 - General Preparation (Prep)

Blank (EH60302-BLK1)

Prepared: 08/02/06 Analyzed: 08/03/06

% Solids 100 %

Duplicate (EH60302-DUP1)

Source: 6H02001-01

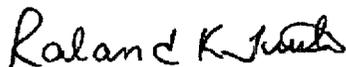
Prepared: 08/02/06 Analyzed: 08/03/06

% Solids 99.5 % 99.4 0.101 20

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:

8/8/2006

Roland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Environmental Plus, Inc.

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

P.O. Box 1558, Eunice, NM 88231

Company Name Environmental Plus, Inc. EPI Project Manager Jason Stegemoller 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 N. Mon. Grayburg SA 603 Location UL-C, Sec 20, T19S, R37E Project Reference 240014 EPI Sampler Name George Blackburn		 <p>Attn: Iain O'Innes P.O. Box 1558 Eunice, NM 88231</p>		ANALYSIS REQUEST PH <input type="checkbox"/> TCLP <input type="checkbox"/> OTHER <input type="checkbox"/> PAH <input type="checkbox"/> CHLORIDES (Cl) <input checked="" type="checkbox"/> SULFATES (SO ₄) <input checked="" type="checkbox"/> TPH 8015M <input checked="" type="checkbox"/> BTX 8021B <input checked="" type="checkbox"/>			
LAB I.D.	SAMPLE I.D.	PRESERV.			SAMPLING		
		ICE/COOL	ACID/BASE	OTHER	DATE	TIME	
# CONTAINERS	(G) RAB OR (OMP)	MATRIX			DATE	TIME	
		GROUND WATER	WASTEWATER	SOIL			
1	G 1				31-Jul-06	8:30	
2	G 1				31-Jul-06	11:40	
3	G 1				31-Jul-06	13:43	
4	G 1				31-Jul-06	15:39	
5							
6							
7							
8							
9							
10							

E-mail results to: jstegemoller@envplus.net

NOTES: 30

see glass

vt label & per seal

Received By:

Received By: (lab staff)

8-2-06
 10:15
 [Signature]

Sample Cool & Intact

163 No

Sampler Relinquished:

Relinquished by:

[Signature]

Delivered by:

[Signature]

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: EPI
 Date/ Time: 8/2/00 11:15
 Lab ID #: 6H02006
 Initials: CK

Sample Receipt Checklist

				Client Initials		
#1	Temperature of container/ cooler?	Yes	No	3.0	°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 ELOT?	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	VOC samples have zero headspace?	Yes	No	Not Applicable		

Variance Documentation

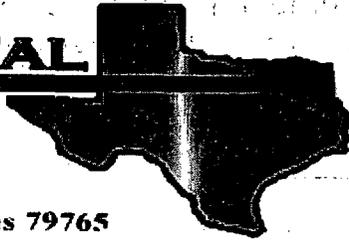
Contact: _____ Contacted by: _____ Date/ Time: _____

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

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jason Stegemoller

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Apache/ N. Mon. Grayburg SA 603

Project Number: 240014

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

Lab Order Number: 6H02007

Report Date: 08/08/06

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-15 6"	6H02007-01	Soil	2006-08-01 08:55	2006-08-02 11:15
BH-16 6"	6H02007-02	Soil	2006-08-01 10:10	2006-08-02 11:15
BH-17 6"	6H02007-03	Soil	2006-08-01 11:25	2006-08-02 11:15
BH-18 6"	6H02007-04	Soil	2006-08-01 13:10	2006-08-02 11:15
BH-19 6"	6H02007-05	Soil	2006-08-01 14:25	2006-08-02 11:15
BH-20 6"	6H02007-06	Soil	2006-08-01 15:25	2006-08-02 11:15

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-15 6" (6H02007-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		115 %	70-130		"	"	"	"	
BH-16 6" (6H02007-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130		"	"	"	"	
BH-17 6" (6H02007-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	

Environmental Lab of Texas

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-17 6" (6H02007-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		93.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	
BH-18 6" (6H02007-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		93.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	
BH-19 6" (6H02007-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130		"	"	"	"	

Environmental Plus, Incorporated
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Eunice NM, 88231

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-20 6" (6H02007-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60702	08/04/06	08/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60209	08/02/06	08/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		123 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-15 6" (6H02007-01) Soil									
Chloride	2510	50.0	mg/kg	100	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	13.6	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	146	50.0	mg/kg	100	EH60307	08/02/06	08/04/06	EPA 300.0	
BH-16 6" (6H02007-02) Soil									
Chloride	226	10.0	mg/kg	20	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	10.6	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	84.6	10.0	mg/kg	20	EH60307	08/02/06	08/04/06	EPA 300.0	
BH-17 6" (6H02007-03) Soil									
Chloride	1720	50.0	mg/kg	100	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	11.8	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	290	50.0	mg/kg	100	EH60307	08/02/06	08/04/06	EPA 300.0	
BH-18 6" (6H02007-04) Soil									
Chloride	1240	25.0	mg/kg	50	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	8.3	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	176	25.0	mg/kg	50	EH60307	08/02/06	08/04/06	EPA 300.0	
BH-19 6" (6H02007-05) Soil									
Chloride	1550	25.0	mg/kg	50	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	9.0	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	253	25.0	mg/kg	50	EH60307	08/02/06	08/04/06	EPA 300.0	
BH-20 6" (6H02007-06) Soil									
Chloride	7.20	5.00	mg/kg	10	EH60307	08/02/06	08/04/06	EPA 300.0	
% Moisture	4.6	0.1	%	1	EH60302	08/02/06	08/03/06	% calculation	
Sulfate	21.8	5.00	mg/kg	10	EH60307	08/02/06	08/04/06	EPA 300.0	

Environmental Lab of Texas

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Page 5 of 11

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EH60209 - EPA 5030C (GC)

Blank (EH60209-BLK1)

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	64.0		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	61.1		"	50.0		122	70-130			

LCS (EH60209-BS1)

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	441	10.0	mg/kg wet	500		88.2	75-125			
Carbon Ranges C12-C28	451	10.0	"	500		90.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	892	10.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	37.1		"	50.0		74.2	70-130			

Calibration Check (EH60209-CCV1)

Prepared: 08/02/06 Analyzed: 08/03/06

Carbon Ranges C6-C12	210		mg/kg	250		84.0	80-120			
Carbon Ranges C12-C28	271		"	250		108	80-120			
Total Hydrocarbons	481		"	500		96.2	80-120			
Surrogate: 1-Chlorooctane	87.7		"	100		87.7	70-130			
Surrogate: 1-Chlorooctadecane	75.9		"	100		75.9	70-130			

Matrix Spike (EH60209-MS1)

Source: 6H02005-01

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	466	10.0	mg/kg dry	520	ND	89.6	75-125			
Carbon Ranges C12-C28	479	10.0	"	520	ND	92.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	945	10.0	"	1040	ND	90.9	75-125			
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	70-130			
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			

Environmental Plus, Incorporated
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Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EH60209 - EPA 5030C (GC)

Matrix Spike Dup (EH60209-MSD1)

Source: 6H02005-01

Prepared & Analyzed: 08/02/06

Carbon Ranges C6-C12	470	10.0	mg/kg dry	520	ND	90.4	75-125	0.855	20	
Carbon Ranges C12-C28	484	10.0	"	520	ND	93.1	75-125	1.04	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	954	10.0	"	1040	ND	91.7	75-125	0.948	20	
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	37.2		"	50.0		74.4	70-130			

Batch EH60702 - EPA 5030C (GC)

Blank (EH60702-BLK1)

Prepared: 08/04/06 Analyzed: 08/06/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			

LCS (EH60702-BS1)

Prepared: 08/04/06 Analyzed: 08/06/06

Benzene	1.19	0.0250	mg/kg wet	1.25		95.2	80-120			
Toluene	1.21	0.0250	"	1.25		96.8	80-120			
Ethylbenzene	1.08	0.0250	"	1.25		86.4	80-120			
Xylene (p/m)	2.66	0.0250	"	2.50		106	80-120			
Xylene (o)	1.31	0.0250	"	1.25		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/kg	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60702 - EPA 5030C (GC)

Calibration Check (EH60702-CCV1)

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	50.4		ug/kg	50.0		101	80-120			
Toluene	49.1		"	50.0		98.2	80-120			
Ethylbenzene	49.4		"	50.0		98.8	80-120			
Xylene (p/m)	99.8		"	100		99.8	80-120			
Xylene (o)	48.8		"	50.0		97.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		"	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.2		"	40.0		85.5	80-120			

Matrix Spike (EH60702-MS1)

Source: 6H04011-01

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.27	0.0250	mg/kg dry	1.36	ND	93.4	80-120			
Toluene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Ethylbenzene	1.23	0.0250	"	1.36	ND	90.4	80-120			
Xylene (p/m)	2.67	0.0250	"	2.72	ND	98.2	80-120			
Xylene (o)	1.36	0.0250	"	1.36	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.8		ug/kg	40.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	35.8		"	40.0		89.5	80-120			

Matrix Spike Dup (EH60702-MSD1)

Source: 6H04011-01

Prepared: 08/04/06 Analyzed: 08/07/06

Benzene	1.24	0.0250	mg/kg dry	1.36	ND	91.2	80-120	2.38	20	
Toluene	1.24	0.0250	"	1.36	ND	91.2	80-120	2.38	20	
Ethylbenzene	1.20	0.0250	"	1.36	ND	88.2	80-120	2.46	20	
Xylene (p/m)	2.62	0.0250	"	2.72	ND	96.3	80-120	1.95	20	
Xylene (o)	1.31	0.0250	"	1.36	ND	96.3	80-120	3.77	20	
Surrogate: a,a,a-Trifluorotoluene	33.1		ug/kg	40.0		82.8	80-120			
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

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 EH60302 - General Preparation (Prep)										
Blank (EH60302-BLK1) Prepared: 08/02/06 Analyzed: 08/03/06										
% Solids	100		%							
Duplicate (EH60302-DUP1) Source: 6H02001-01 Prepared: 08/02/06 Analyzed: 08/03/06										
% Solids	99.5		%		99.4			0.101	20	
Batch EH60307 - Water Extraction										
Blank (EH60307-BLK1) Prepared: 08/02/06 Analyzed: 08/04/06										
Sulfate	ND	0.500	mg/kg							
Chloride	ND	0.500	"							
LCS (EH60307-BS1) Prepared: 08/02/06 Analyzed: 08/04/06										
Chloride	8.90	0.500	mg/kg	10.0		89.0	80-120			
Sulfate	9.47	0.500	"	10.0		94.7	80-120			
Calibration Check (EH60307-CCV1) Prepared: 08/02/06 Analyzed: 08/04/06										
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	9.57		"	10.0		95.7	80-120			
Duplicate (EH60307-DUP1) Source: 6H01008-03 Prepared: 08/02/06 Analyzed: 08/04/06										
Sulfate	327	10.0	mg/kg		325			0.613	20	
Chloride	7.30	10.0	"		9.22			23.2	20	S-08, J
Duplicate (EH60307-DUP2) Source: 6H01009-06 Prepared: 08/02/06 Analyzed: 08/04/06										
Sulfate	30.1	5.00	mg/kg		30.1			0.00	20	
Chloride	13.3	5.00	"		13.3			0.00	20	

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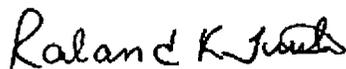
General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60307 - Water Extraction										
Matrix Spike (EH60307-MS1) Source: 6H01008-03 Prepared: 08/02/06 Analyzed: 08/04/06										
Chloride	221	10.0	mg/kg	200	9.22	106	80-120			
Sulfate	539	10.0	"	200	325	107	80-120			
Matrix Spike (EH60307-MS2) Source: 6H01009-06 Prepared: 08/02/06 Analyzed: 08/04/06										
Chloride	109	5.00	mg/kg	100	13.3	95.7	80-120			
Sulfate	120	5.00	"	100	30.1	89.9	80-120			

Notes and Definitions

S-08	Value outside Laboratory historical or method prescribed QC limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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:

8/8/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

ent: EPI
 Date/ Time: 8/2/00 11:15
 Lab ID #: 6H02007
 Initials: CK

Sample Receipt Checklist

	Yes	No		Client Initials
1 Temperature of container/ cooler?			3.0 °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 ELOT?	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 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

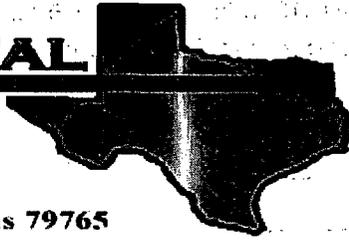
Contact: _____ Contacted by: _____ Date/ Time: _____

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

E NVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jason Stegemoller

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Apache/ N. Mon. Grayburg SA 603

Project Number: 240014

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

Lab Order Number: 6H08004

Report Date: 08/10/06

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-21 6"	6H08004-01	Soil	08/02/06 08:15	08-08-2006 10:40
BH-22 6"	6H08004-02	Soil	08/02/06 09:50	08-08-2006 10:40
BH-23 6"	6H08004-03	Soil	08/02/06 12:00	08-08-2006 10:40
BH-24 6"	6H08004-04	Soil	08/02/06 13:30	08-08-2006 10:40
BH-25 6"	6H08004-05	Soil	08/02/06 14:35	08-08-2006 10:40
BH-26 6"	6H08004-06	Soil	08/02/06 15:06	08-08-2006 10:40

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Project: Apache/ N. Mon. Grayburg SA 603
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-21 6" (6H08004-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/09/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	13.4	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C12-C28	57.8	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	71.2	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		121 %	70-130		"	"	"	"	
BH-22 6" (6H08004-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/09/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		120 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130		"	"	"	"	
BH-23 6" (6H08004-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/09/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	

Environmental Lab of Texas

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.

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-23 6" (6H08004-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		130 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		121 %	70-130		"	"	"	"	
BH-24 6" (6H08004-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0361	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		129 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130		"	"	"	"	
BH-25 6" (6H08004-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-26 6" (6H08004-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60809	08/08/06	08/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH60808	08/08/06	08/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		121 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-21 6" (6H08004-01) Soil									
Chloride	920	25.0	mg/kg	50	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	14.4	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	168	25.0	mg/kg	50	EH60812	08/08/06	08/08/06	EPA 300.0	
BH-22 6" (6H08004-02) Soil									
Chloride	976	25.0	mg/kg	50	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	12.0	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	121	25.0	mg/kg	50	EH60812	08/08/06	08/08/06	EPA 300.0	
BH-23 6" (6H08004-03) Soil									
Chloride	6.09	5.00	mg/kg	10	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	10.9	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	17.6	5.00	mg/kg	10	EH60812	08/08/06	08/08/06	EPA 300.0	
BH-24 6" (6H08004-04) Soil									
Chloride	705	20.0	mg/kg	40	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	10.1	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	65.3	20.0	mg/kg	40	EH60812	08/08/06	08/08/06	EPA 300.0	
BH-25 6" (6H08004-05) Soil									
Chloride	1250	50.0	mg/kg	100	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	10.2	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	2380	50.0	mg/kg	100	EH60812	08/08/06	08/08/06	EPA 300.0	
BH-26 6" (6H08004-06) Soil									
Chloride	136	10.0	mg/kg	20	EH60812	08/08/06	08/08/06	EPA 300.0	
% Moisture	12.8	0.1	%	1	EH60906	08/08/06	08/09/06	% calculation	
Sulfate	151	10.0	mg/kg	20	EH60812	08/08/06	08/08/06	EPA 300.0	

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60808 - EPA 5030C (GC)

Blank (EH60808-BLK1)

Prepared & Analyzed: 08/08/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	55.6		"	50.0		111	70-130			

LCS (EH60808-BS1)

Prepared & Analyzed: 08/08/06

Carbon Ranges C6-C12	483	10.0	mg/kg wet	500		96.6	75-125			
Carbon Ranges C12-C28	426	10.0	"	500		85.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	909	10.0	"	1000		90.9	75-125			
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	56.3		"	50.0		113	70-130			

Calibration Check (EH60808-CCV1)

Prepared & Analyzed: 08/08/06

Carbon Ranges C6-C12	215		mg/kg	250		86.0	80-120			
Carbon Ranges C12-C28	224		"	250		89.6	80-120			
Total Hydrocarbons	439		"	500		87.8	80-120			
Surrogate: 1-Chlorooctane	64.1		"	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	62.2		"	50.0		124	70-130			

Matrix Spike (EH60808-MS1)

Source: 6H08003-02

Prepared & Analyzed: 08/08/06

Carbon Ranges C6-C12	597	10.0	mg/kg dry	561	ND	106	75-125			
Carbon Ranges C12-C28	520	10.0	"	561	ND	92.7	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1120	10.0	"	1120	ND	100	75-125			
Surrogate: 1-Chlorooctane	64.9		mg/kg	50.0		130	70-130			
Surrogate: 1-Chlorooctadecane	63.8		"	50.0		128	70-130			

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

Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
Project Manager: Jason Stegemoller

Fax: 505-394-2601

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60808 - EPA 5030C (GC)

Matrix Spike Dup (EH60808-MSD1)	Source: 6H08003-02		Prepared & Analyzed: 08/08/06							
Carbon Ranges C6-C12	585	10.0	mg/kg dry	561	ND	104	75-125	2.03	20	
Carbon Ranges C12-C28	498	10.0	"	561	ND	88.8	75-125	4.32	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1080	10.0	"	1120	ND	96.4	75-125	3.64	20	
Surrogate: 1-Chlorooctane	64.1		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	63.3		"	50.0		127	70-130			

Batch EH60809 - EPA 5030C (GC)

Blank (EH60809-BLK1)	Prepared & Analyzed: 08/08/06									
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120			

LCS (EH60809-BS1)	Prepared & Analyzed: 08/08/06									
Benzene	1.24	0.0250	mg/kg wet	1.25		99.2	80-120			
Toluene	1.27	0.0250	"	1.25		102	80-120			
Ethylbenzene	1.12	0.0250	"	1.25		89.6	80-120			
Xylene (p/m)	2.78	0.0250	"	2.50		111	80-120			
Xylene (o)	1.39	0.0250	"	1.25		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.8		ug/kg	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60809 - EPA 5030C (GC)

Calibration Check (EH60809-CCV1)

Prepared & Analyzed: 08/08/06

Benzene	49.2		ug/kg	50.0		98.4	80-120			
Toluene	48.6		"	50.0		97.2	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	101		"	100		101	80-120			
Xylene (o)	50.0		"	50.0		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.8		"	40.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.1		"	40.0		80.2	80-120			

Matrix Spike (EH60809-MS1)

Source: 6H07012-01

Prepared & Analyzed: 08/08/06

Benzene	1.38	0.0250	mg/kg dry	1.38	ND	100	80-120			
Toluene	1.42	0.0250	"	1.38	ND	103	80-120			
Ethylbenzene	1.40	0.0250	"	1.38	ND	101	80-120			
Xylene (p/m)	3.09	0.0250	"	2.76	ND	112	80-120			
Xylene (o)	1.50	0.0250	"	1.38	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120			

Matrix Spike Dup (EH60809-MSD1)

Source: 6H07012-01

Prepared & Analyzed: 08/08/06

Benzene	1.37	0.0250	mg/kg dry	1.38	ND	99.3	80-120	0.702	20	
Toluene	1.41	0.0250	"	1.38	ND	102	80-120	0.976	20	
Ethylbenzene	1.39	0.0250	"	1.38	ND	101	80-120	0.00	20	
Xylene (p/m)	3.10	0.0250	"	2.76	ND	112	80-120	0.00	20	
Xylene (o)	1.54	0.0250	"	1.38	ND	112	80-120	2.71	20	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	40.1		"	40.0		100	80-120			

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Project: Apache/ N. Mon. Grayburg SA 603
Project Number: 240014
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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 EH60812 - Water Extraction										
Blank (EH60812-BLK1)				Prepared & Analyzed: 08/08/06						
Chloride	ND	0.500	mg/kg							
Sulfate	ND	0.500	"							
LCS (EH60812-BS1)				Prepared & Analyzed: 08/08/06						
Sulfate	8.06	0.500	mg/kg	10.0		80.6	80-120			
Chloride	9.00	0.500	"	10.0		90.0	80-120			
Calibration Check (EH60812-CCV1)				Prepared & Analyzed: 08/08/06						
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	10.9		"	10.0		109	80-120			
Duplicate (EH60812-DUP1)		Source: 6H07014-04		Prepared & Analyzed: 08/08/06						
Chloride	4.20	5.00	mg/kg		3.93			6.64	20	J
Duplicate (EH60812-DUP2)		Source: 6H08004-05		Prepared & Analyzed: 08/08/06						
Sulfate	2200	50.0	mg/kg		2380			7.86	20	
Chloride	1150	50.0	"		1250			8.33	20	
Matrix Spike (EH60812-MS1)		Source: 6H07014-04		Prepared & Analyzed: 08/08/06						
Chloride	100	5.00	mg/kg	100	3.93	96.1	80-120			
Matrix Spike (EH60812-MS2)		Source: 6H08004-05		Prepared & Analyzed: 08/08/06						
Chloride	2200	50.0	mg/kg	1000	1250	95.0	80-120			
Sulfate	3190	50.0	"	1000	2380	81.0	80-120			
Batch EH60906 - General Preparation (Prep)										
Blank (EH60906-BLK1)				Prepared: 08/08/06 Analyzed: 08/09/06						
% Solids	100		%							

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Project: Apache/ N. Mon. Grayburg SA 603
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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 EH60906 - General Preparation (Prep)										
Duplicate (EH60906-DUP1)										
		Source: 6H08003-01			Prepared: 08/08/06		Analyzed: 08/09/06			
% Solids	83.3		%		82.9			0.481	20	

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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: Raland K Tuttle Date: 8/10/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

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

1 of 1

Company Name Environmental Plus, Inc. EPI Project Manager Jason Stegemoller 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 N. Mon. Grayburg SA 603 Location UL-C, Sec 20, T19S, R37E Project Reference 240014 EPI Sampler Name Jacob Melancon		BI TO  Attn: Cody Miller P.O. Box 1558 Eunice, NM 88231		ANALYSIS REQUEST																																								
LAB I.D. W-108004 01 02 03 04 05 06	SAMPLE I.D.		# CONTAINERS G 1		(G) RAB OR (C) OMP.		GROUND WATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE		ICE/COOL		OTHER		PRESERV.		MATRIX		BTEX 8021B		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH	
	DATE 02-Aug-06		TIME 8:15		DATE 02-Aug-06		TIME 9:50		DATE 02-Aug-06		TIME 12:00		DATE 02-Aug-06		TIME 1:30		DATE 02-Aug-06		TIME 2:35		DATE 02-Aug-06		TIME 3:06																					

E-mail results to: jstegemoller@envplus.net
 NOTES: 4oz glass
 3.0
 w/ label

Sampler Relinquished: _____
Relinquished by: _____
Delivered by: *[Signature]*

Received By: _____
Received By: (lab staff): *[Signature]*
Sample Cool & Intact: Yes No
Checked By: *[Signature]*

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: EPL
 Date/ Time: 8/8/06 10:40
 Lab ID #: 6F108004
 Initials: OK

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	3.0 °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 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

APPENDIX II

PROJECT PHOTOGRAPHS



Photo #1: Well location sign.

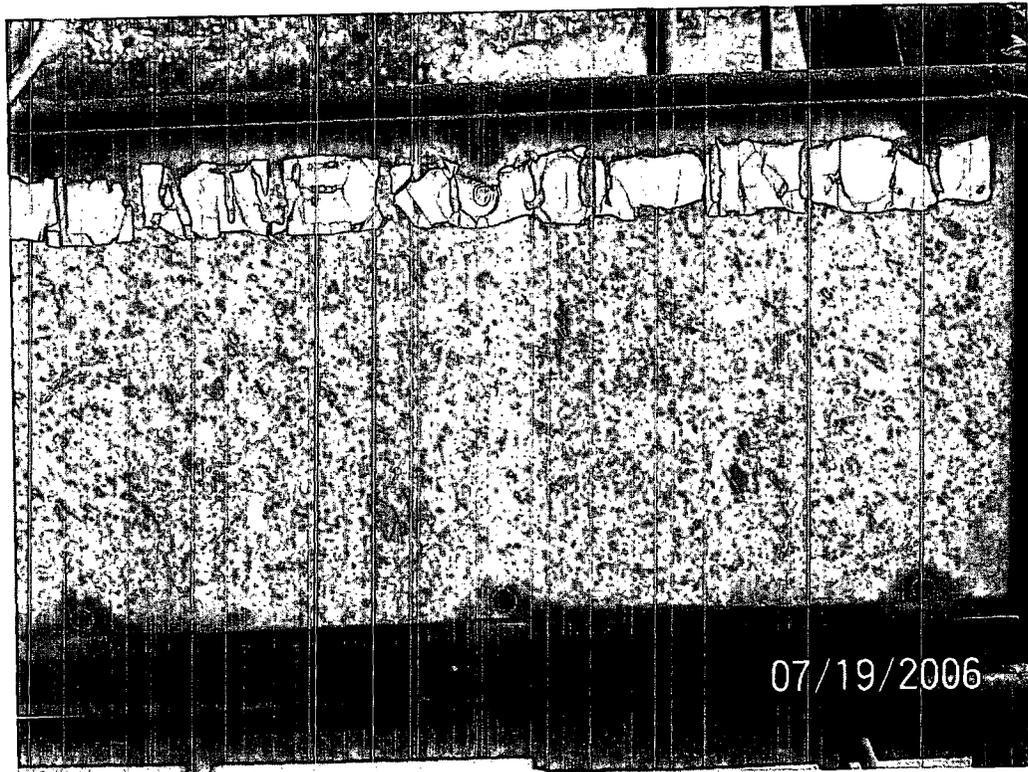


Photo #2: Lanexco well location sign.

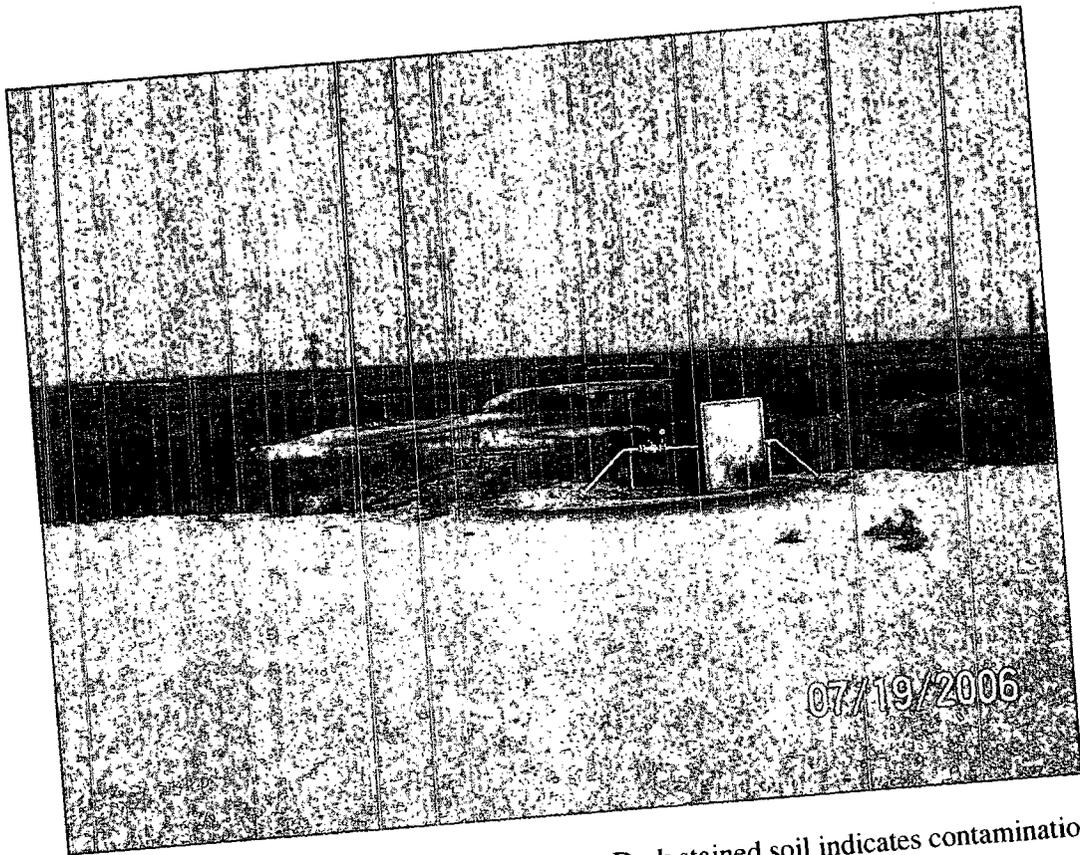


Photo #3: Looking westerly at point of release. Dark stained soil indicates contamination.



Photo #4: Looking westerly from point of release at Lanexco well pad. Dark stained soil indicates contamination.

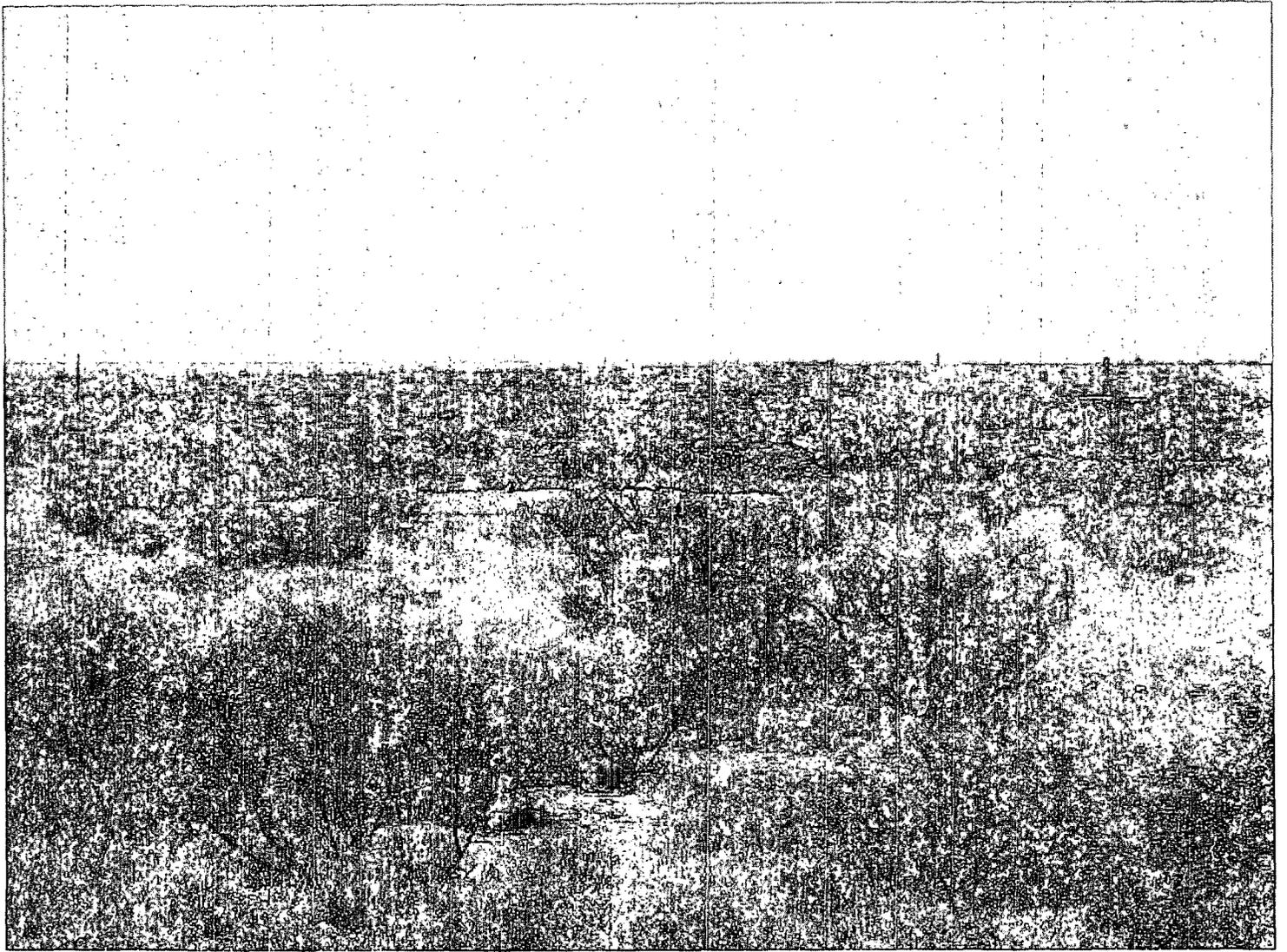


Photo #5: Looking southerly at flowpath area. Caliche berm at the center of photo is the extent of flowpath.



Photo #6: Looking northerly at excavation of the south flowpath area.

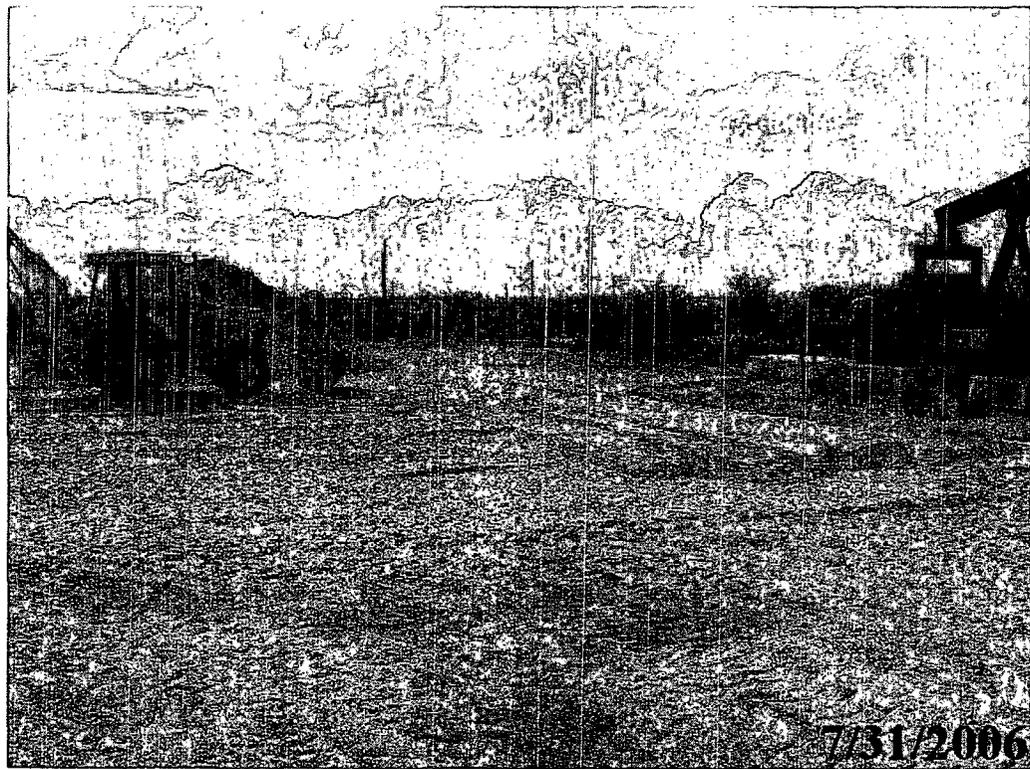


Photo #7: Looking west-northwesterly at excavation of Lanexco caliche well pad.

APPENDIX III
INFORMATIONAL COPY OF INITIAL
NMOCD C-141 FORM

LETTER OF TRANSMITTAL

ENVIRONMENTAL PLUS, INC.



Date: August 31, 2006
To: **Mr. Larry Johnson**
Company Name: New Mexico Oil Conservation Division
Address: 1625 French Drive
City / State / Zip: Hobbs, NM 88240
From: Jason Stegemoller
CC: Mike Warren, Apache Corp. – Monument, NM
Jimmy Cooper, Landowner – Monument, NM
Project #: **1RP # 1019**; EPI Ref: 240014
Project Name: North Monument Grayburg San Andres Unit #603
Subject: **Delineation Proposal**

# of originals	# of copies	Description
1		Apache Corporation - North Monument Grayburg San Andres Unit #603 Delineation Proposal

Remarks:

Dear Mr. Johnson:

Enclosed is a copy of the *Delineation Proposal* for the above referenced site. An original copy of the report was also submitted to the landowner and appropriate Apache Corporation personnel. Should you have any questions or concerns, please feel free to contact me at (505) 394-3481.

Sincerely,

Jason Stegemoller
Environmental Scientist

P. O. Box 1558
Eunice, NM 88240
(505) 394-3481
Fax: (505) 394-2601

240014

District I
625 N. French Dr., Hobbs, NM 88240
District II
361 W. Grand Avenue, Artesia, NM 88210
District III
600 Rio Brazos Road, Aztec, NM 87410
District IV
220 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

OPERATOR

Initial Report Final Report

Name of Company <u>Apache Corp</u>	Contact <u>Doug Mathews</u>
Address <u>17 Hess Lane</u>	Telephone No. <u>505-241-2148</u>
Facility Name <u>NMGSAU #003</u>	Facility Type <u>Injection well</u>

Surface Owner <u>State of NM</u>	Mineral Owner <u>State of NM</u>	Lease No. <u>B-1651-9</u>
----------------------------------	----------------------------------	---------------------------

LOCATION OF RELEASE AP# 3002505669000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<u>C</u>	<u>20</u>	<u>19S</u>	<u>37E</u>	<u>660</u>	<u>North</u>	<u>1980</u>	<u>West</u>	<u>Lea</u>

37'

Latitude N32° 39.074' Longitude W103° 16.560'

NATURE OF RELEASE

Type of Release <u>Injection leak</u>	Volume of Release <u>85 bbls</u>	Volume Recovered <u>60 bbls</u>
Source of Release <u>Plug blew out</u>	Date and Hour of Occurrence	Date and Hour of Discovery <u>7/16/06 8:45AM</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Gary Wink</u>	
By Whom? <u>Doug Mathews</u>	Date and Hour <u>7/16/06 12:00 PM</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.*

Plug blew out of injection line. Trucks were called and all fluid was picked up.

Describe Area Affected and Cleanup Action Taken.*

Injection water ran off location and down hill to the west. 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 pose 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>Doug Mathews</u>	OIL CONSERVATION DIVISION		
Printed Name: <u>Doug Mathews</u>	Approved by District Supervisor:		
Title: <u>Pumper II</u>	Approval Date:	Expiration Date:	
E-mail Address: <u>doug.mathews@usa.apachecorp.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>7/16/06</u> Phone: <u>441-2148</u>			

Attach Additional Sheets If Necessary

incident - nPAC0628637327
application - pPAC0628637430

REP - 1019