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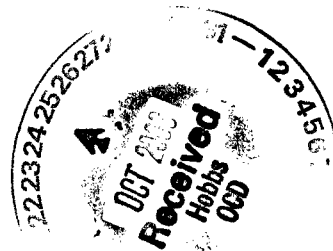
PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION/CLOSURE PLAN (REVISED)

PLAINS MARKETING, L.P. (231735)
Abandoned Vacuum 10-Inch Sour
Lea County, New Mexico
Plains EMS # 2004-00208

UNIT L (NW/SW), Section 8, Township 20 South, Range 37 East
Latitude 32°, 35', 02.7" North, Longitude 103°, 16', 46.6" West

Prepared For:

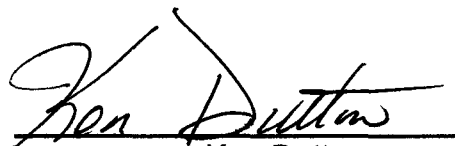
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002



Prepared By:

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30 September 2006


Ken Dutton

Basin Environmental Service Technologies, LLC



Facility - FPAC0631346456
Incident - nPAC0631346546
Application - pPAC0631347469

RP1105

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the inactive Abandoned Vacuum 10" Sour Pipeline on 07 October 2004. The inactive Abandoned Vacuum 10" Sour Pipeline was cold cut and capped and the impacted soil was excavated and stockpiled on a 6-mil poly-liner adjacent to the excavation. The inactive Abandoned Vacuum 10" Pipeline right-of-way is located on land owned by U. S. Department of the Interior, Bureau of Land Management (BLM).

This site is located in Unit L (NW/SW), Section 8, Township 20 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32° 35' 02.7" North and the site longitude is 103° 16' 46.6" West. The site is characterized by a right-of-way for the pipeline in an undulating sand dune pasture utilized for cattle grazing. The visible surface stained area includes the release point and flow path area covering an area approximately 262 feet long by 17 feet wide. Approximately 8 barrels of crude oil were released from the inactive Abandoned Vacuum 10" Pipeline and 3 barrels were recovered.

An emergency one-call was initiated 07 October 2004 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. James Amos, BLM, Carlsbad, New Mexico Office, was verbally notified 08 October 2004. Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District I was verbally notified of the release on 12 October 2004. A BLM Report of Undesirable Event was prepared and delivered to Mr. Jim Amos in October 2004. A BLM Form 299, Application to Install Monitor Wells, was prepared and delivered to Carlsbad BLM Office on 15 July 2005. A NMOCD C-141 was prepared and delivered to Mr. Larry Johnson on 21 October 2004.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database indicates the average depth to water for that section is 35 to 38 feet bgs. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of >19, which sets the remediation levels at:

Benzene:	10 ppm
BTEX:	50 ppm
TPH:	100 ppm

SUMMARY OF FIELD ACTIVITIES

On 07 October 2004, Basin mobilized to the inactive Abandoned Vacuum 10" Pipeline release site to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. The previous operators of the Vacuum 10" Pipeline, Texas-New Mexico Pipeline, had de-oiled the pipeline utilizing fresh water. After allowing the fresh water and minimal crude oil to drain, which was collected by a vacuum transport truck, Basin cold cut and capped the abandoned pipeline to the north and south of the crude oil release point. Excavation of the impacted soil was initiated and accomplished (see Figure 2, Excavation Site Map). The release point and visually stained area was excavated to approximately 262 feet long by 17 feet wide and ranged in depth from 4 inches to 1 foot below ground surface (bgs). Approximately 100 cubic yards of excavated soils were placed on a 6-mil poly liner adjacent to the excavation for future remedial action.

On 08 October 2004, Basin excavated the release point and visually stained area to the east to depths of approximately 3 feet bgs and 1-foot bgs, respectively (see Excavation Site Map, Figure 2). Photoionization Detector (PID) field screening of collected soil samples indicated elevated concentrations of Volatile Organic Compounds (VOC) remain at the release point and were less than NMOCD regulatory guidelines in the east flow path area.

On 11 October 2004, Basin excavated the release point to a depth of approximately 14 feet bgs in an attempt to evaluate the vertical extent of hydrocarbon contaminants. PID field readings indicated elevated concentrations of VOC's remain at the release point. Two delineation trenches were excavated to the north of the release point to evaluate the horizontal and vertical extent of contaminants (see Excavation Site Map, Figure 2). Both delineation trenches were excavated to a depth of approximately 3 feet bgs and soil samples were field screened with a PID, which indicated results were well below NMOCD regulatory guidelines.

On 23 October 2004, Basin installed one soil boring, utilizing Straub Corporation, Stanton, Texas, collecting soil samples every 5 feet at the release point in order to evaluate the vertical extent of crude oil impacted soil (see Soil Boring & Monitoring Well Locations, Figure 3). The soil boring was terminated at 36 feet bgs (soil boring log is attached as Appendix E). Each sample was screened with a PID, calibrated 23 October 2004. The selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results indicated that constituent concentrations of BTEX were below NMOCD regulatory standards. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO exceeded NMOCD regulatory standards at the 25, 30 and 35 feet bgs soil samples.

On 15 March 2006, Basin installed three (3) monitoring wells, one (1) up gradient and two (2) down gradient of the release point to evaluate the groundwater (see Figure

3). Soil samples were collected at 5 feet intervals; field screened with a PID and selected soil samples were analyzed for BTEX and TPH-GRO/DRO. Three (3) soil samples were collected for analysis from each of the three (3) groundwater monitoring well installations ranging in depth from approximately 5 to 25 feet bgs, resulting in a total of nine (9) soil samples. Laboratory results of the nine (9) soil samples indicated that BTEX and TPH-GRO/DRO constituent concentrations were not detected above laboratory method detection limits.

On 21 March 2006, 08 June 2006 and 13 September 2006, quarterly groundwater sampling was conducted at the Abandoned Vacuum 10" site. The groundwater samples were analyzed for constituent concentrations of BTEX. Laboratory results of the groundwater samples collected from the three (3) quarterly sampling events indicate that constituent concentrations BTEX were not detected above laboratory method detection limits.

ARCHEOLOGICAL SURVEY RESULTS

Boone Archeological Services, LLC, Carlsbad, New Mexico, conducted an archeological survey of the site, in accordance with BLM directives. Results of the archeological survey did not find evidence of cultural resources present, and therefore, recommended archeological clearance. A copy of the archeological survey is included in Appendix D.

DISTRIBUTION OF HYDROCARBONS IN THE USATURATED ZONE

The release point area was excavated to a depth of approximately 14 feet below ground surface (bgs) and evidence of crude oil impact still existed on the floor of the excavation. A drill rig was utilized to delineate the vertical extent of crude oil impacted soil. A soil boring was installed at the release point (see Figure 3). Soil samples were collected in the subsurface from the soil boring at 5 feet intervals. No visual observations of free phase hydrocarbons were encountered during the installation of the soil boring (as depicted on Appendix E) or excavation of the site. PID field screenings were utilized to determine which soil samples were to be submitted to the laboratory for analysis. Soil samples were analyzed for constituent concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix C).

The two delineation trenches excavated to the north of the release point indicated contaminants were limited to the release point area. The first delineation trench was excavated to a depth of approximately 3 feet bgs and approximately 6 feet long by 3 feet wide. The second delineation trench was excavated to a depth of approximately 3 feet bgs and approximately 18 feet long and 3 feet wide. Soil samples were collected from the floor and walls of each delineation trench; field screened with a PID, which indicated contaminant levels were well below NMOCD regulatory guidelines (100 ppm).

The visually impacted flow path area to the east of the release point was excavated to a depth of approximately 1-foot bgs. Numerous soil samples were collected along the excavated flow path area; field screened with a PID, which indicated contaminate levels well below NMOCD regulatory guidelines (100 ppm).

Soil Boring 1, as depicted on the Soil Boring & Monitoring Well Locations (Figure 3), was installed at the release point. Samples collected at the 25, 30 and 35 feet bgs were analyzed. The soil boring was terminated at 36 feet bgs. Laboratory results indicated that constituent concentrations of BTEX were below NMOCD regulatory standards at 25, 30 and 35 feet bgs. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO exceeded NMOCD regulatory standards at 25, 30 and 35 feet bgs at 1430 mg/kg, 1780 mg/kg and 404 mg/kg, respectively.

Groundwater Monitoring Well 1 (MW-1) was installed at an up gradient position to the release point. Subsurface soil samples were collected at 5, 15 and 25 feet bgs sample depths, field screened with a PID and submitted for analysis. Laboratory results of the three (3) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

Groundwater Monitoring Well 2 (MW-2) was installed at a down gradient position to the release point. Subsurface soil samples were collected at 5, 15 and 25 feet bgs sample depths, field screened with a PID and submitted for analysis. Laboratory results of the three (3) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

Groundwater Monitoring Well 3 (MW-3) was installed at a down gradient position to the release point. Subsurface soil samples were collected at 5, 15 and 25 feet bgs sample depths, field screened with a PID and submitted for analysis. Laboratory results of the three (3) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

Groundwater was encountered at depths varying from 28 to 29 feet bgs in the soil boring and groundwater monitoring wells during drilling activities. No evidence of phase-separated hydrocarbons (PSH) was detected during drilling or groundwater sampling activities. Top-of-casing elevations for the on-site groundwater monitoring wells were not available at the time of this preliminary report; therefore, site-specific groundwater gradient information is not included.

On 20 and 21 March 2006, the three (3) groundwater monitoring wells were developed, purged and sampled. Quarterly groundwater sampling was conducted on 08 June 2006 and 13 September 2006. The groundwater samples collected from the

quarterly groundwater sampling events were analyzed for constituent concentrations of BTEX. Laboratory results of the three (3) groundwater monitoring wells groundwater samples indicated constituent concentrations of BTEX were not detected above laboratory method detection limits for each of the three (3) quarterly groundwater sampling events (see Groundwater Chemistry, Table 2).

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

Approximately 100 cubic yards of impacted soil has been excavated and stockpiled on-site resulting from the emergency response and excavation of the release point and flow path. Based on the analytical results and PID results of the soil boring, two (2) delineation trenches and three (3) groundwater monitoring wells, which indicates the crude oil impact is contained in a limited vertical subsurface area immediately around the release point, Plains proposes to excavate the release point area to approximately fifteen (15) feet bgs which will include an area approximately 30 feet long and 30 feet wide. The approximately 100 cubic yards of impacted soil and excavated clean overburden (approximately 500 cubic yards) resulting from further excavation will be blended and utilized as backfill material. The blended soil will be divided into equal grids of approximately 300 cubic yards; confirmation soil samples will be collected from the blended material to ensure TPH-GRO/DRO constituent concentrations of less than 1000 mg/kg and backfill the excavation with the blended soils.

Due to the remote area of this location and lack of receptors, Plains recommends that an impermeable barrier consisting of a 20-mil poly liner be permanently installed at the base of the excavation to inhibit vertical migration of contaminants in soil left in place below the cap (see Figure 4, Installation Diagram of 20-mil Poly Liner). The barrier will extend to a minimum of three (3) feet beyond the edges of soil impacted above NMOCD remedial thresholds. A 6-inch layer of fine sand will be installed beneath and above the 20-mil poly liner to prevent degrading the integrity of the poly liner. Installation of the 20-mil poly liner at a depth of approximately 15 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminants in the soil.

Once installation of the 20-mil poly liner completed, backfilling of the excavation will be initiated with the blended material (<1000 mg/kg TPH-GRO/DRO) on-site. The backfilled excavation will be contoured to the original rangeland grade surrounding the site and reseeded with BLM approved grass seed.

A request for closure will be submitted to the Hobbs District I office, upon completion of backfilling activities. Based on the results of the remediation activities conducted, Plains requests approval from the NMOCD and BLM to implement these proposed final remediation and site closure activities.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Groundwater Sampling

The groundwater monitoring wells were developed utilizing the Environmental Protection Agency (EPA) protocol of approximately nine (9) well volumes of groundwater or until the monitoring wells were dry using an electrical Grunfos Pump. Within forty-eight hours of development, the monitoring wells were measured and purged of approximately three (3) well volumes utilizing an electrical Grunfos Pump. Groundwater samples were collected using a disposable Teflon sampler and the groundwater samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and was disposed of at a licensed New Mexico disposal facility.

Groundwater samples were delivered to Environmental Laboratory of Texas, Odessa, Texas, for analysis of BTEX concentrations using the method described below. All samples were analyzed within approved holding times following the collection date.

- BTEX concentrations in accordance with EPA Method 8021B/5030

Decontamination Of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox[®] detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, L.P. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and Plains Marketing, L.P.

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TABLE 1

SOIL CHEMISTRY, SOIL BORING/MONITOR WELL INSTALLATION

PLAINS MARKETING L.P.
 ABANDONED 10" VACUUM
 LEA COUNTY, NEW MEXICO
 EMS: 2004-00208

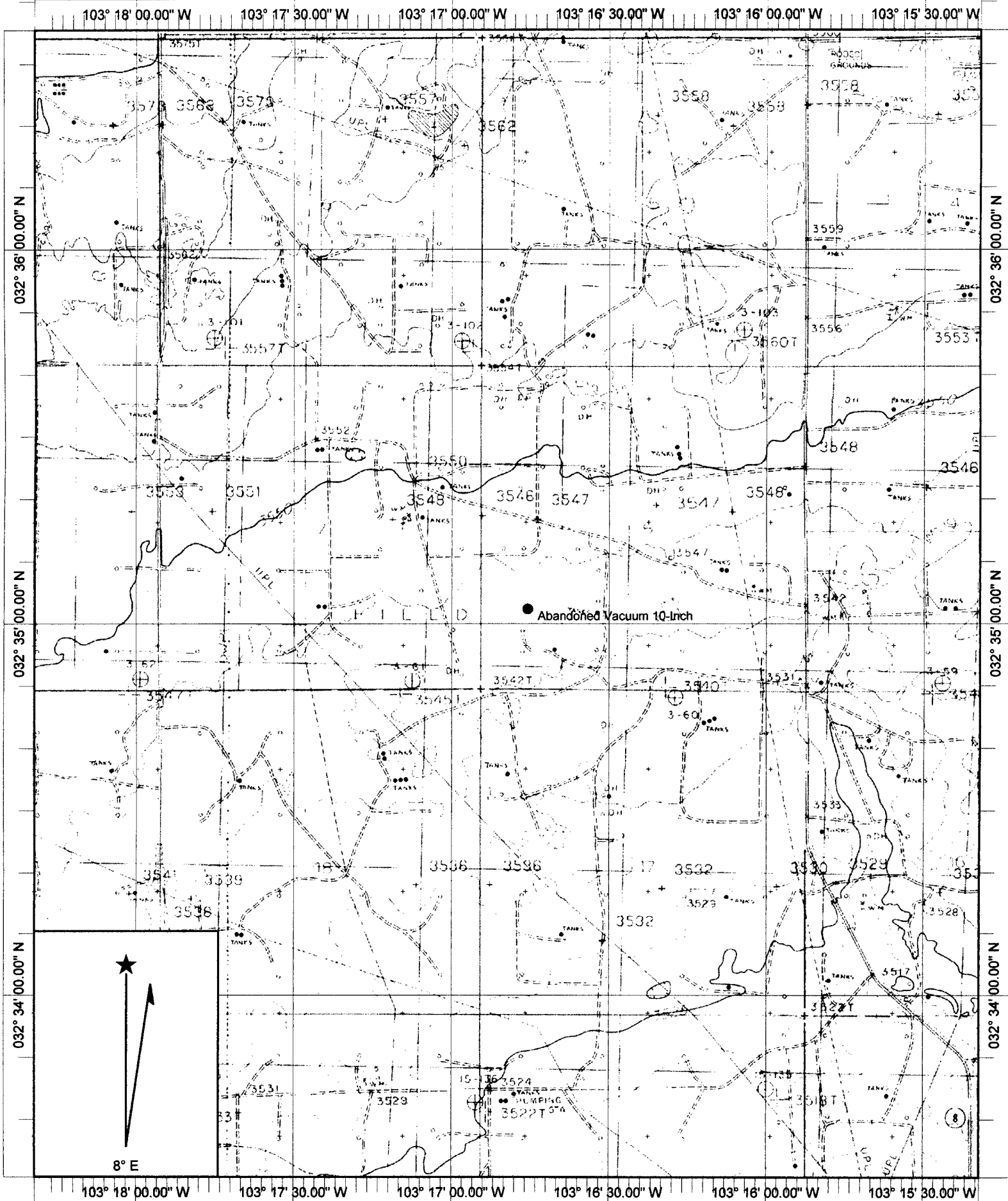
SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M		TOTAL TPH (mg/kg)
			BENZENE (mg/kg)	TOLUENE (mg/kg)	BENZENE (mg/kg)	ETHYL-XYLENES (mg/kg)	M,P-XYLENES (mg/kg)	O-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
SB-1	25'	10/23/04	0.059	0.237	0.599	1.33	0.721	285	1140	1430	
SB-1	30'	10/23/04	<0.025	<0.025	0.038	0.078	0.045	187	1590	1780	
SB-1	35'	10/23/04	<0.025	<0.025	<0.025	0.052	0.026	72.8	331	404	
MW-1 5'	5' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 15'	15' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 25'	25' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 5'	5' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 15'	15' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 25'	25' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 5'	5' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 15'	15' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 25'	25' bgs	03/15/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
NMOCD CRITERIA			10	TOTAL BTEX 50							100

TABLE 2

GROUNDWATER CHEMISTRY

PLAINS MARKETING, L.P.
 ABANDONED VACUUM 10"
 LEA COUNTY, NEW MEXICO
 PLAINS EMS NO. 2004-00208

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030					Method: 160.1	
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TDS (mg/L)	
MW-1	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001		
MW-2	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001		
MW-3	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001		
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001		



Name: MONUMENT SOUTH
 Date: 10/16/2006
 Scale: 1 inch equals 2000 feet

Location: 032° 35' 03.11" N 103° 16' 49.35" W
 Caption: Figure 1, Site Location Map
 Plains Marketing, L. P.
 Abandoned Vacuum 10-Inch



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
SW/SW S31, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208

Capped Plains 10 inch
Pipeline

Delineation Trench # 2

Delineation Trench # 1

262 feet long X 17 feet wide

Excavation
Floor
1-Foot

Excavation
Floor
4-Inches

Release Point

Capped Plains 10 inch
Pipeline

TITLE	Abandoned Vacuum 10 inch Sour	DRAWN BY	Basin Environmental Service Technologies kad
DESCRIPTION	Site Map, Figure 2		



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
SW/SW S31, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208

Capped Plains 10 inch
Pipeline

MW-1

Delineation Trench # 2

262 feet long X 17 feet wide

Delineation Trench # 1

Excavation
Floor
1-Foot

Excavation
Floor
4-Inches

Release Point
SB-1

MW-3

Capped Plains 10 inch
Pipeline

MW-2

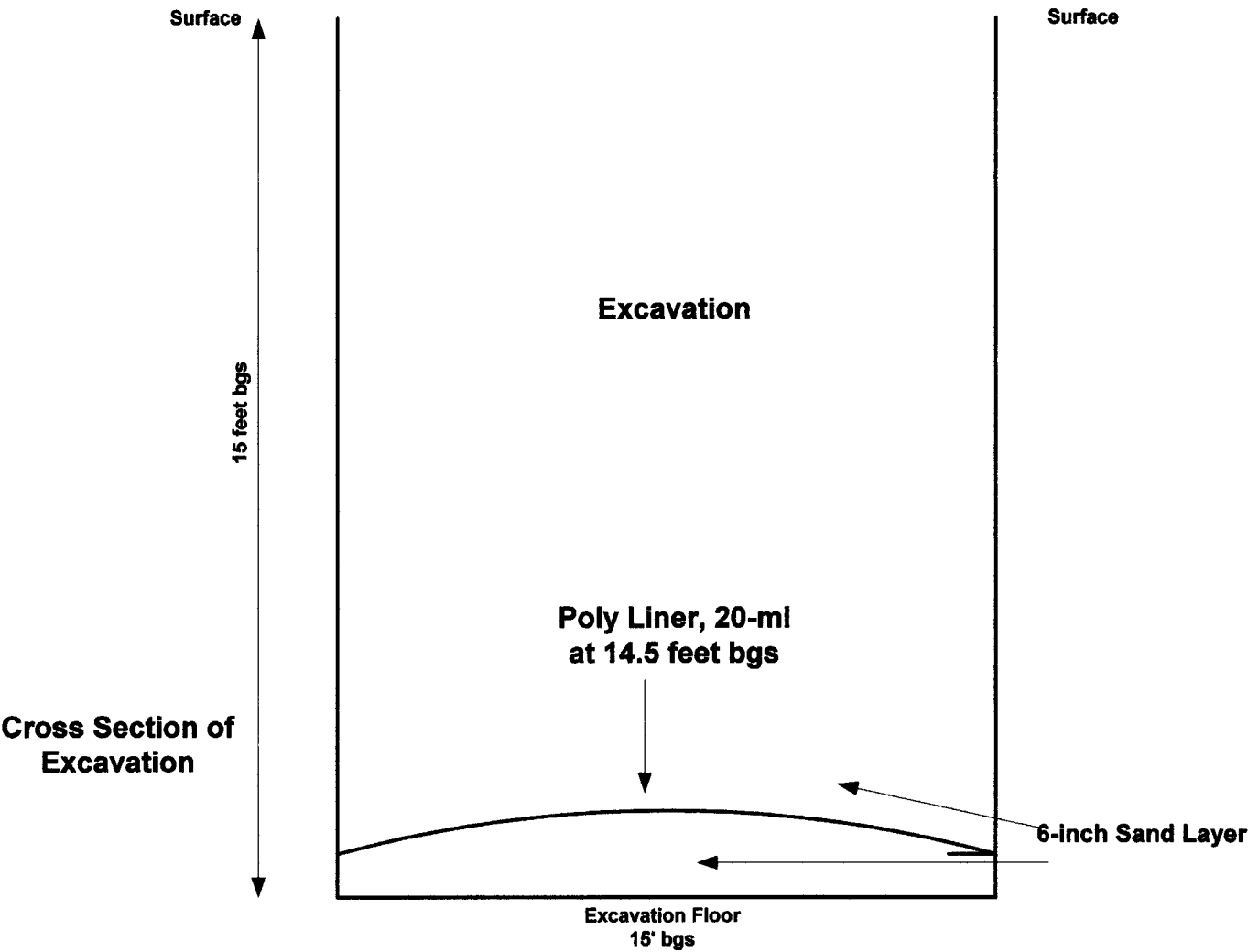
LEGEND

- SB-1
- Monitor Wells

TITLE	Abandoned Vacuum 10 inch Sour	DRAWN BY Basin Environmental Service Technologies kad
	DESCRIPTION Soil Boring & Monitoring Well Locations, Figure 3	

**Abandoned Vacuum 10" Sour
20-mi Poly-Liner Installation**

**Plains Marketing, L. P.
Abandoned Vacuum 10" Sour
NW/SW S8, T20S, R37E
Lea County, New Mexico
EMS No. 2004-00208**



TITLE	Figure 4 Abandoned Vacuum 10" Sour	DATE	30 September 06
DRAWN BY	Basin Environmental Services KAD	LABEL	Installation of 20-mil Poly Liner

Plains Marketing, L. P.
Abandoned Vacuum 10" Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208





Release Point, Damaged 4" Valve

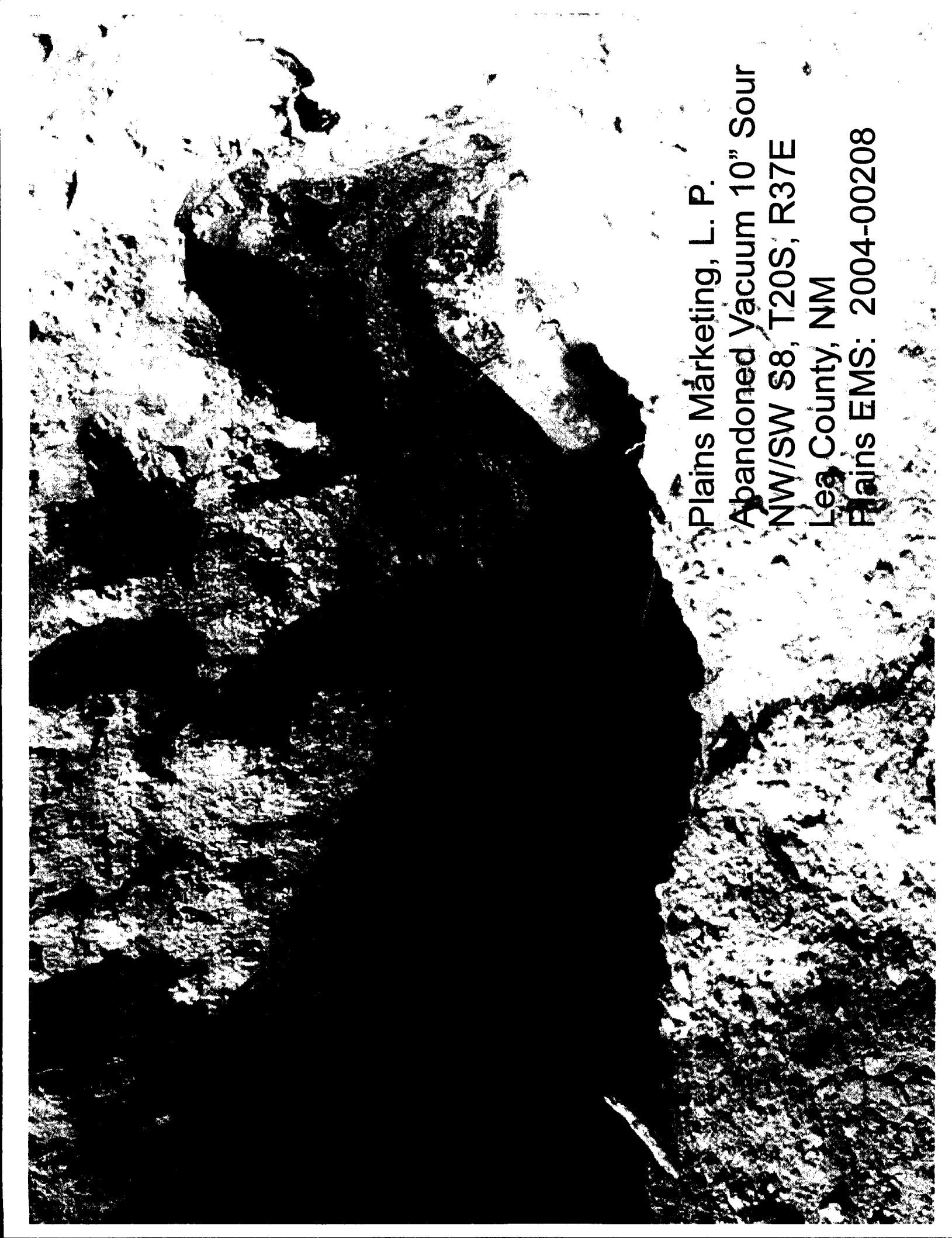
Plains Marketing Inc.
Abandoned Vacuum 10" Vacuum S&B
Unit L (NW/SW) S8, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208



Plains Marketing, L.P.
Abandoned Vacuum 40' Soil
NW/SW S8, T20S, R14E
Lea County, NM
Plains EMS: 2004-00208

Plains Marketing, L.P.
Abandoned Vacuum 10" Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208



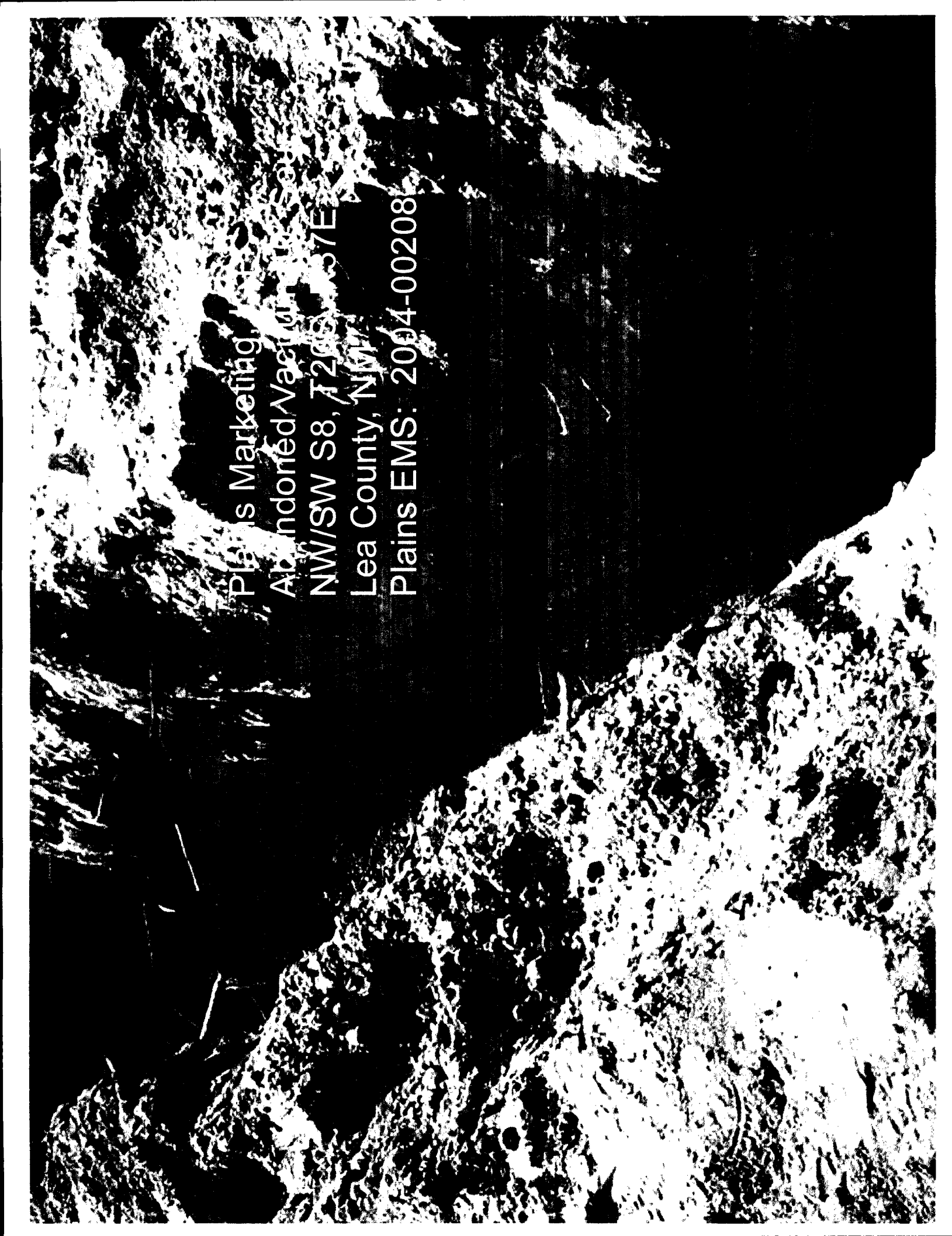


Plains Marketing, L. P.

Abandoned Vacuum 10" Sour
NW/SW S8, T20S, R37E

Lea County, NM

Plains EMS: 2004-00208



Plains Marketing, Inc.
Abandoned Vacuum Tank
NW/4 SW 38, T20S, R37E
Lea County, NM
Plains EMS: 2004-00208

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 37E Sections: 8

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 10/13/2004

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
A	20S	37E	08				1	38	38	38
L	20S	37E	08				9	30	38	35

Record Count: 10

UNITED STATES DEPARTMENT OF THE INTERIOR
Bureau of Land Management
New Mexico State Office

REPORT OF UNDESIRABLE EVENT

DATE OF OCCURRENCE/DISCOVERY: 10/7/04 TIME OF OCCURRENCE: 10:30 AM
DATE REPORTED TO BLM: 10/8/04 TIME REPORTED: 8:00 AM
BLM OFFICE REPORTED TO: (FIELD/DISTRICT/OTHER) Jim Amos - Carlsbad
LOCATION: (1/4 1/4) M SECTION 31 T. 20S R. 37E MERIDIAN NM Prime Meridian
COUNTY: Lea STATE: NM WELL NAME Abandoned Vacuum 10" S
OPERATOR: COMPANY NAME Plains All American PHONE NO. 505-441-0965
CONTACT PERSON'S NAME Camille Reynolds
SURFACE OWNER: BLM MINERAL OWNER: _____
(FEDERAL/INDIAN/FEE/STATE)
LEASE NO.: _____ RIGHT-OF-WAY NO.: LC057355
UNIT NAME / COMMUNITIZATION AGREEMENT NO.: _____
TYPE OF EVENT, CIRCLE APPROPRIATE ITEM (S):
BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, OIL AND
SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL, UNCONTROLLED FLOW
OF WELLBORE FLUIDS, OTHER (SPECIFY): _____
CAUSE OF EVENT: Break in well where 4" pipeline
tied into 10" pipeline
HazMat Notified: (for spills) _____
Law Enforcement Notified: (for thefts) _____
CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
None
Safety Officer Notified: _____
EFFECTS OF EVENT: Crude oil impacted soil
ACTION TAKEN TO CONTROL EVENT: Line was cut and capped
LENGTH OF TIME TO CONTROL BLOWOUT OR FIRE: _____
VOLUMES DISCHARGED: OIL 8 barrels WATER _____ GAS _____
OTHER AGENCIES NOTIFIED: _____

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: Line was cut
and capped

FINAL INVESTIGATION:

TEAM NAME(S) _____

FIELD INSPECTION DATE _____

SUMMARY OF RESULTS OF INSPECTION _____

RESOURCE LOSS WAS (CIRCLE ITEM): AVOIDABLE UNAVOIDABLE

DATE OF MEMO NOTIFYING MINEALS MANAGEMENT SERVICE THAT LOSS WAS AVOIDABLE:

DATE/TIME/PERSON NOTIFIED:

DISTRICT OFFICE _____

STATE OFFICE _____

WASHINGTON OFFICE _____

SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION:

REMARKS: _____

SIGNATURE OF AUTHORIZED OFFICER _____

DATE: _____ TITLE: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

SERIAL NUMBER: NM-113356

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

Plains Pipeline, LP

~~Right of way Dept.~~ EH+S Dept - Attn. Camille Reynolds

PO Box 4648

Houston, TX 77210

receives a right to construct, operate, maintain, and terminate (2) groundwater monitoring wells on public lands described as follows:

T. 20 S., R. 37 E., NMPM
Sec. 08: SW $\frac{1}{4}$ SW $\frac{1}{4}$.

b. The right-of-way for the monitoring wells granted herein is (2) sites that are 50 feet wide and 50 feet long and contains 0.114 total acres, more or less.

c. This instrument shall terminate on December 31st, 2034, 30 years from the effective date of this grant unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted

and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibits A and B dated July 19, 2005, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

Rebecca Esparga
(Signature of Holder)

Environmental + Reg. Compliance
(Title) Specialist

Plains Pipeline, LP

11/29/05

Russ Hansen
(Signature of Authorized Officer)

for Tony J. Herrell, Field Manager
(Title)

JAN 10 2006

EXHIBIT A
July 19, 2005
NM-113356
Plains Pipeline, L.P. monitoring wells

STIPULATIONS FOR FLPMA SITES

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this right-of-way.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et. seq.*) with regard to an toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of a toxic substances shall be furnished to the Authorized Officer concurrent with the filing of reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et. seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et. seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the site any pollutant should be discharged from site facilities, or from containers, or vehicles impacting public lands, the control and total removal, disposal, and cleanup of such pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting public lands, or to repair all damages to public lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wild habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.
5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste material both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means discarded matter including, but not limited to, human waste, trash, garbage, and equipment.
6. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is Shale Green, Munsell Soil Color Chart Number 5Y 4/2.

7. The holder shall post a sign designating the BLM serial number assigned to this right-of-way grant in a permanent, conspicuous location on the site where the sign will be visible from the entry to the site. This sign will be maintained in a legible condition for the term of the right-of-way.

8. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

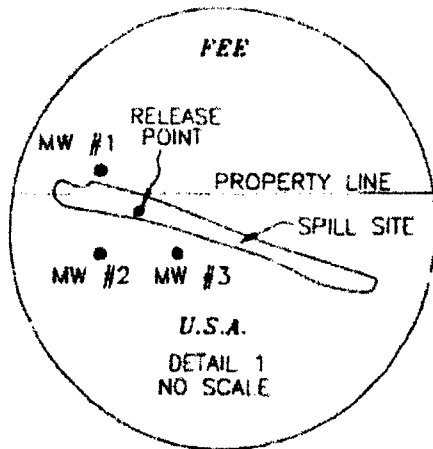
9. Should the holder require a base of mineral material, a sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office.

10. The area will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle, and saltcedar.

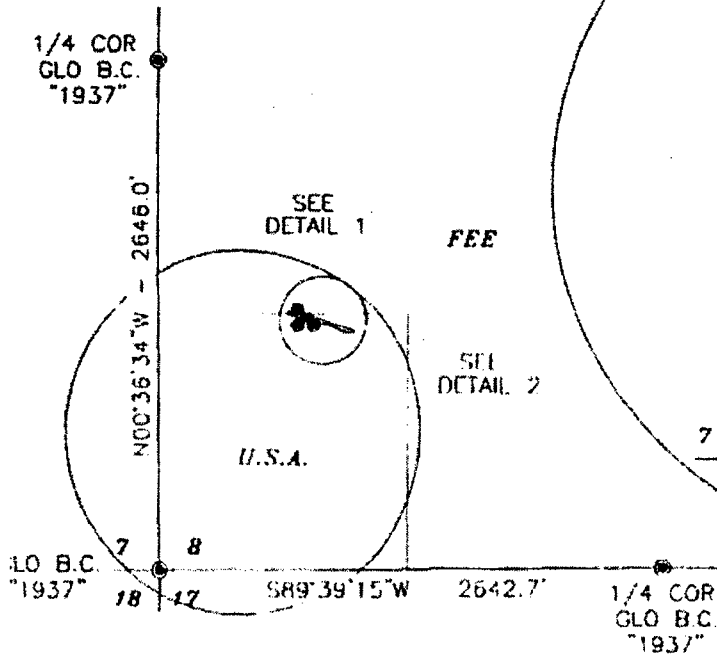
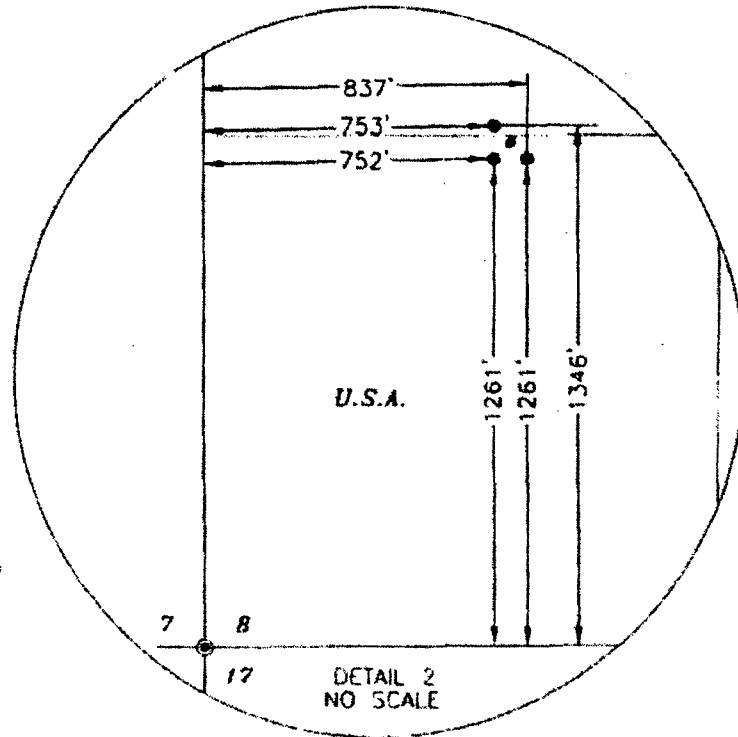
Special Stipulations:

1. The Authorized Officer for the BLM, Carlsbad Field Office, will be contacted at (505-234-5972) for full restoration of the monitoring well prior to abandonment.

2. The project is identified as habitat for the lesser prairie chicken; therefore, all construction activities will be restricted between the hours of 3:00 am through 9:00 am for the period of March 15 through June 15.



GEODETIC COORDINATES NAD 27 NME		
MONITOR WELL #1	MONITOR WELL #2	MONITOR WELL #3
Y=577792.3 N X=824675.7 E	Y=577707.3 N X=824676.6 E	Y=577707.8 N X=824761.6 E
LAT.=32°35'02.53" N LONG.=103°16'45.35" W	LAT.=32°35'01.69" N LONG.=103°16'45.35" W	LAT.=32°35'01.68" N LONG.=103°16'44.35" W



NOTE: BEARINGS SHOWN HEREON ARE
MERCATOR GRID AND CONFORM TO THE
NEW MEXICO COORDINATE SYSTEM "NEW
MEXICO EAST ZONE" NORTH AMERICAN
DATUM 1983. DISTANCES ARE SURFACE
VALUES.

I HEREBY CERTIFY THAT I DIRECTED AND AM
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE
AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET
THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

Gary G. Edson 05/26/05
GARY G. EDSON N.M. P.S. No. 12641
PROVIDING SURVEYING SERVICES
SINCE 1988
JOHN WEST SURVEYING COMPANY
312 N. DAL PASO
ROBBS, N.M. 86240
(505) 383-3117

LEGEND

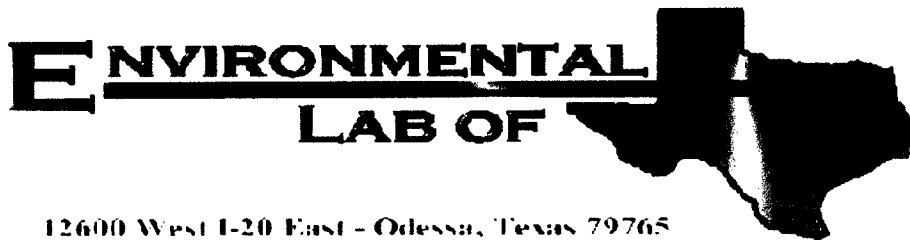
- - DENOTES RELEASE POINT
- ⊙ - DENOTES PROPOSED MONITOR WELL

1000 0 1000 2000 FEET
Scale: 1"=1000'

BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES, LLC

SURVEY 3 PROPOSED MONITOR WELLS IN
SECTION 8, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 10/20/04	Sheet 1 of 1 Sheets
W.O. Number: 05.13.0825	Drawn By: J. RIVERO
Date: 05/26/05 DISK:CD#5	05.13.0825



Analytical Report

Prepared for:

Ken Dutton

Basin Environmental Services

P.O. Box 301

Lovington, TX 88260

Project: Abandoned 10 inch Vacuum

Project Number: EMS: 2004-00208

Location: Lea County, NM

Lab Order Number: 4J26002

Report Date: 11/01/04

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 25'	4J26002-01	Soil	10/23/04 09:11	10/25/04 17:25
SB-1 30'	4J26002-02	Soil	10/23/04 09:17	10/25/04 17:25
SB-1 35'	4J26002-03	Soil	10/23/04 09:25	10/25/04 17:25

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 25' (4J26002-01) Soil									
Benzene	0.0599	0.0250	mg/kg dry	25	EK40101	10/28/04	10/29/04	EPA 8021B	
Toluene	0.237	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.599	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.33	0.0250	"	"	"	"	"	"	
Xylene (o)	0.721	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		135 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	285	10.0	mg/kg dry	1	EJ42604	10/26/04	10/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	1140	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1430	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %	70-130		"	"	"	"	
SB-1 30' (4J26002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40101	10/28/04	10/29/04	EPA 8021B	
Toluene	J [0.0194]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0381	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0787	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0450	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	187	10.0	mg/kg dry	1	EJ42604	10/26/04	10/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	1590	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1780	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		97.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		124 %	70-130		"	"	"	"	
SB-1 35' (4J26002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40101	10/28/04	10/29/04	EPA 8021B	
Toluene	J [0.00920]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	J [0.0167]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0526	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0265	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	72.8	10.0	mg/kg dry	1	EJ42604	10/26/04	10/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	331	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	404	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 35' (4J26002-03) Soil									
Surrogate: 1-Chlorooctane		96.2 %	70-130		EJ42604	10/26/04	10/27/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	

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Reported:
11/01/04 16:45

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 25' (4J26002-01) Soil									
% Moisture	11.0		%	1	EJ42701	10/26/04	10/27/04	% calculation	
SB-1 30' (4J26002-02) Soil									
% Moisture	6.0		%	1	EJ42701	10/26/04	10/27/04	% calculation	
SB-1 35' (4J26002-03) Soil									
% Moisture	12.0		%	1	EJ42701	10/26/04	10/27/04	% calculation	

Basin Environmental Services
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Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EJ42604 - Solvent Extraction (GC)									
Blank (EJ42604-BLK1)		Prepared & Analyzed: 10/26/04							
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.2	70-130		
Surrogate: 1-Chlorooctadecane	41.0		"	50.0		82.0	70-130		
Blank (EJ42604-BLK2)		Prepared: 10/26/04 Analyzed: 10/27/04							
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	39.7		mg/kg	50.0		79.4	70-130		
Surrogate: 1-Chlorooctadecane	40.3		"	50.0		80.6	70-130		
LCS (EJ42604-BS1)		Prepared & Analyzed: 10/26/04							
Gasoline Range Organics C6-C12	455	10.0	mg/kg wet	500		91.0	75-125		
Diesel Range Organics >C12-C35	486	10.0	"	500		97.2	75-125		
Total Hydrocarbon C6-C35	941	10.0	"	1000		94.1	75-125		
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.4	70-130		
Surrogate: 1-Chlorooctadecane	40.1		"	50.0		80.2	70-130		
LCS (EJ42604-BS2)		Prepared: 10/26/04 Analyzed: 10/27/04							
Gasoline Range Organics C6-C12	434	10.0	mg/kg wet	500		86.8	75-125		
Diesel Range Organics >C12-C35	488	10.0	"	500		97.6	75-125		
Total Hydrocarbon C6-C35	922	10.0	"	1000		92.2	75-125		
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	70-130		
Surrogate: 1-Chlorooctadecane	41.7		"	50.0		83.4	70-130		
Calibration Check (EJ42604-CCV1)		Prepared & Analyzed: 10/26/04							
Gasoline Range Organics C6-C12	488		mg/kg	500		97.6	80-120		
Diesel Range Organics >C12-C35	519		"	500		104	80-120		
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120		
Surrogate: 1-Chlorooctane	48.3		"	50.0		96.6	70-130		
Surrogate: 1-Chlorooctadecane	45.0		"	50.0		90.0	70-130		

Environmental Lab of Texas

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P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

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 EJ42604 - Solvent Extraction (GC)

Calibration Check (EJ42604-CCV2)

Prepared & Analyzed: 10/26/04

Gasoline Range Organics C6-C12	489		mg/kg	500		97.8	80-120			
Diesel Range Organics >C12-C35	488		"	500		97.6	80-120			
Total Hydrocarbon C6-C35	977		"	1000		97.7	80-120			
Surrogate: 1-Chlorooctane	41.7		"	50.0		83.4	70-130			
Surrogate: 1-Chlorooctadecane	39.9		"	50.0		79.8	70-130			

Matrix Spike (EJ42604-MS1)

Source: 4J26001-17

Prepared & Analyzed: 10/26/04

Gasoline Range Organics C6-C12	573	10.0	mg/kg dry	562	ND	102	75-125			
Diesel Range Organics >C12-C35	584	10.0	"	562	ND	104	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1120	ND	104	75-125			
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Matrix Spike (EJ42604-MS2)

Source: 4J26001-21

Prepared: 10/26/04 Analyzed: 10/27/04

Gasoline Range Organics C6-C12	536	10.0	mg/kg dry	568	ND	94.4	75-125			
Diesel Range Organics >C12-C35	611	10.0	"	568	ND	108	75-125			
Total Hydrocarbon C6-C35	1150	10.0	"	1140	ND	101	75-125			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130			

Matrix Spike Dup (EJ42604-MSD1)

Source: 4J26001-17

Prepared & Analyzed: 10/26/04

Gasoline Range Organics C6-C12	567	10.0	mg/kg dry	562	ND	101	75-125	1.05	20	
Diesel Range Organics >C12-C35	584	10.0	"	562	ND	104	75-125	0.00	20	
Total Hydrocarbon C6-C35	1150	10.0	"	1120	ND	103	75-125	0.866	20	
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	51.8		"	50.0		104	70-130			

Matrix Spike Dup (EJ42604-MSD2)

Source: 4J26001-21

Prepared: 10/26/04 Analyzed: 10/27/04

Gasoline Range Organics C6-C12	550	10.0	mg/kg dry	568	ND	96.8	75-125	2.58	20	
Diesel Range Organics >C12-C35	589	10.0	"	568	ND	104	75-125	3.67	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1140	ND	100	75-125	0.873	20	
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.4	70-130			
Surrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			

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Page 6 of 10

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

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 EK40101 - EPA 5030C (GC)

Blank (EK40101-BLK1)

Prepared & Analyzed: 10/28/04

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	83.7		ug/kg	100		83.7	80-120			
Surrogate: 4-Bromofluorobenzene	98.7		"	100		98.7	80-120			

LCS (EK40101-BS1)

Prepared & Analyzed: 10/28/04

Benzene	84.3		ug/kg	100		84.3	80-120			
Toluene	87.5		"	100		87.5	80-120			
Ethylbenzene	96.2		"	100		96.2	80-120			
Xylene (p/m)	216		"	200		108	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.4		"	100		97.4	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Calibration Check (EK40101-CCV1)

Prepared: 10/28/04 Analyzed: 10/29/04

Benzene	94.5		ug/kg	100		94.5	80-120			
Toluene	94.2		"	100		94.2	80-120			
Ethylbenzene	93.3		"	100		93.3	80-120			
Xylene (p/m)	206		"	200		103	80-120			
Xylene (o)	98.7		"	100		98.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			

Matrix Spike (EK40101-MS1)

Source: 4J26001-31

Prepared: 10/28/04 Analyzed: 10/29/04

Benzene	90.7		ug/kg	100	ND	90.7	80-120			
Toluene	93.4		"	100	ND	93.4	80-120			
Ethylbenzene	101		"	100	ND	101	80-120			
Xylene (p/m)	229		"	200	ND	114	80-120			
Xylene (o)	111		"	100	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			

Environmental Lab of Texas

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Page 7 of 10

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

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 EK40101 - EPA 5030C (GC)

Matrix Spike Dup (EK40101-MSD1)

Source: 4J26001-31

Prepared: 10/28/04 Analyzed: 10/29/04

Benzene	92.0		ug/kg	100	ND	92.0	80-120	1.42	20	
Toluene	93.8		"	100	ND	93.8	80-120	0.427	20	
Ethylbenzene	101		"	100	ND	101	80-120	0.00	20	
Xylene (p/m)	228		"	200	ND	114	80-120	0.00	20	
Xylene (o)	110		"	100	ND	110	80-120	0.905	20	
Surrogate: a,a,a-Trifluorotoluene	99.9		"	100		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Environmental Lab of Texas

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Page 8 of 10

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

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 EJ42701 - General Preparation (Prep)

Blank (EJ42701-BLK1)

Prepared: 10/26/04 Analyzed: 10/27/04

% Moisture	0.0		%							
------------	-----	--	---	--	--	--	--	--	--	--

Duplicate (EJ42701-DUP1)

Source: 4J26001-01

Prepared: 10/26/04 Analyzed: 10/27/04

% Moisture	6.0		%		6.0			0.00	20	
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Environmental Lab of Texas

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Page 9 of 10

Basin Environmental Services
P.O. Box 301
Lovington TX, 88260

Project: Abandoned 10 inch Vacuum
Project Number: EMS: 2004-00208
Project Manager: Ken Dutton

Fax: (505) 396-1429

Reported:
11/01/04 16:45

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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: _____

11/1/04

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, 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

Client: Basin Environmental

Date/Time: 10-26-04 @ 0830

Order #: 4 J26002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	☒ Yes	☐ No	<u>C.O.</u>	<u>C</u>
Shipping container/cooler in good condition?	☒ Yes	☐ No		
Custody Seals intact on shipping container/cooler?	☐ Yes	☐ No	<u>Not present</u>	
Custody Seals intact on sample bottles?	☐ Yes	☐ No	<u>Not present</u>	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Preservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
All samples received within sufficient hold time?	☒ Yes	☐ No		
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

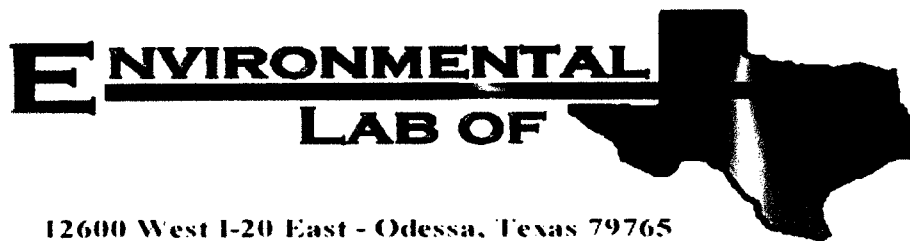
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vacuum 10"

Project Number: EMS: 2004-00208

Location: Lea County, NM

Lab Order Number: 6C16005

Report Date: 03/23/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 5'	6C16005-01	Soil	03/15/06 09:12	03/16/06 10:00
MW-1 15'	6C16005-02	Soil	03/15/06 09:17	03/16/06 10:00
MW-1 25'	6C16005-03	Soil	03/15/06 09:25	03/16/06 10:00
MW-2 5'	6C16005-04	Soil	03/15/06 11:07	03/16/06 10:00
MW-2 15'	6C16005-05	Soil	03/15/06 11:13	03/16/06 10:00
MW-2 25'	6C16005-06	Soil	03/15/06 11:17	03/16/06 10:00
MW-3 5'	6C16005-07	Soil	03/15/06 12:56	03/16/06 10:00
MW-3 15'	6C16005-08	Soil	03/15/06 12:59	03/16/06 10:00
MW-3 25'	6C16005-09	Soil	03/15/06 13:06	03/16/06 10:00

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 5' (6C16005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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>		96.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		124 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		124 %	70-130		"	"	"	"	
MW-1 15' (6C16005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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>		88.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130		"	"	"	"	
MW-1 25' (6C16005-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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>		102 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 25' (6C16005-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	
MW-2 5' (6C16005-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		123 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-130		"	"	"	"	
MW-2 15' (6C16005-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 25' (6C16005-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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		90.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61618	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130		"	"	"	"	
MW-3 5' (6C16005-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61706	03/17/06	03/18/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		130 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
MW-3 15' (6C16005-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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		86.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61706	03/17/06	03/18/06	EPA 8015M	

Environmental Lab of Texas

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Page 4 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 15' (6C16005-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61706	03/17/06	03/18/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		120 %	70-130		"	"	"	"	
MW-3 25' (6C16005-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	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>		94.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61706	03/17/06	03/18/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		129 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		129 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 5 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 5' (6C16005-01) Soil									
% Moisture	5.1	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-1 15' (6C16005-02) Soil									
% Moisture	14.7	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-1 25' (6C16005-03) Soil									
% Moisture	10.0	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-2 5' (6C16005-04) Soil									
% Moisture	6.4	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-2 15' (6C16005-05) Soil									
% Moisture	11.2	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-2 25' (6C16005-06) Soil									
% Moisture	7.7	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 5' (6C16005-07) Soil									
% Moisture	7.0	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 15' (6C16005-08) Soil									
% Moisture	9.7	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 25' (6C16005-09) Soil									
% Moisture	10.6	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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 EC61618 - Solvent Extraction (GC)										
Blank (EC61618-BLK1)										
Prepared: 03/16/06 Analyzed: 03/17/06										
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 Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	53.2		"	50.0		106	70-130			
LCS (EC61618-BS1)										
Prepared: 03/16/06 Analyzed: 03/17/06										
Carbon Ranges C6-C12	526	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges C12-C28	496	10.0	"	500		99.2	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	57.4		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			
Calibration Check (EC61618-CCV1)										
Prepared: 03/16/06 Analyzed: 03/17/06										
Carbon Ranges C6-C12	245		mg/kg	250		98.0	80-120			
Carbon Ranges C12-C28	288		"	250		115	80-120			
Total Hydrocarbon C6-C35	533		"	500		107	80-120			
Surrogate: 1-Chlorooctane	54.0		"	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	57.2		"	50.0		114	70-130			
Matrix Spike (EC61618-MS1)										
Source: 6C15005-01 Prepared: 03/16/06 Analyzed: 03/17/06										
Carbon Ranges C6-C12	577	10.0	mg/kg dry	536	24.4	103	75-125			
Carbon Ranges C12-C28	652	10.0	"	536	104	102	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1070	128	103	75-125			
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	56.6		"	50.0		113	70-130			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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 EC61618 - Solvent Extraction (GC)

Matrix Spike Dup (EC61618-MSD1)

Source: 6C15005-01

Prepared: 03/16/06 Analyzed: 03/17/06

Carbon Ranges C6-C12	596	10.0	mg/kg dry	536	24.4	107	75-125	3.24	20	
Carbon Ranges C12-C28	666	10.0	"	536	104	105	75-125	2.12	20	
Total Hydrocarbon C6-C35	1260	10.0	"	1070	128	106	75-125	2.41	20	
Surrogate: 1-Chlorooctane	60.9		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	58.1		"	50.0		116	70-130			

Batch EC61706 - Solvent Extraction (GC)

Blank (EC61706-BLK1)

Prepared & Analyzed: 03/17/06

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 Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	49.7		"	50.0		99.4	70-130			

LCS (EC61706-BS1)

Prepared & Analyzed: 03/17/06

Carbon Ranges C6-C12	527	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges C12-C28	489	10.0	"	500		97.8	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	51.9		"	50.0		104	70-130			

Calibration Check (EC61706-CCV1)

Prepared: 03/17/06 Analyzed: 03/18/06

Carbon Ranges C6-C12	276		mg/kg	250		110	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon C6-C35	573		"	500		115	80-120			
Surrogate: 1-Chlorooctane	55.1		"	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	52.4		"	50.0		105	70-130			

Environmental Lab of Texas

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Page 8 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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 EC61706 - Solvent Extraction (GC)

Matrix Spike (EC61706-MS1)

Source: 6C17009-03

Prepared & Analyzed: 03/17/06

Carbon Ranges C6-C12	560	10.0	mg/kg dry	522	ND	107	75-125			
Carbon Ranges C12-C28	534	10.0	"	522	25.1	97.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon C6-C35	1090	10.0	"	1040	25.1	102	75-125			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	48.4		"	50.0		96.8	70-130			

Matrix Spike Dup (EC61706-MSD1)

Source: 6C17009-03

Prepared & Analyzed: 03/17/06

Carbon Ranges C6-C12	553	10.0	mg/kg dry	522	ND	106	75-125	1.26	20	
Carbon Ranges C12-C28	522	10.0	"	522	25.1	95.2	75-125	2.27	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon C6-C35	1080	10.0	"	1040	25.1	101	75-125	0.922	20	
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	47.1		"	50.0		94.2	70-130			

Batch EC62103 - EPA 5030C (GC)

Blank (EC62103-BLK1)

Prepared: 03/20/06 Analyzed: 03/21/06

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	34.5		"	40.0		86.2	80-120			

LCS (EC62103-BS1)

Prepared: 03/20/06 Analyzed: 03/21/06

Benzene	1.03	0.0250	mg/kg wet	1.25		82.4	80-120			
Toluene	1.17	0.0250	"	1.25		93.6	80-120			
Ethylbenzene	1.31	0.0250	"	1.25		105	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	36.9		ug/kg	40.0		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.6		"	40.0		89.0	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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 EC62103 - EPA 5030C (GC)

Calibration Check (EC62103-CCV1)

Prepared: 03/20/06 Analyzed: 03/22/06

Benzene	41.2		ug/kg	50.0		82.4	80-120			
Toluene	44.3		"	50.0		88.6	80-120			
Ethylbenzene	48.6		"	50.0		97.2	80-120			
Xylene (p/m)	100		"	100		100	80-120			
Xylene (o)	50.4		"	50.0		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.2		"	40.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			

Matrix Spike (EC62103-MS1)

Source: 6C16015-01

Prepared: 03/20/06 Analyzed: 03/21/06

Benzene	1.18	0.0250	mg/kg dry	1.42	ND	83.1	80-120			
Toluene	1.34	0.0250	"	1.42	ND	94.4	80-120			
Ethylbenzene	1.53	0.0250	"	1.42	ND	108	80-120			
Xylene (p/m)	3.10	0.0250	"	2.84	ND	109	80-120			
Xylene (o)	1.54	0.0250	"	1.42	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ug/kg	40.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120			

Matrix Spike Dup (EC62103-MSD1)

Source: 6C16015-01

Prepared: 03/20/06 Analyzed: 03/21/06

Benzene	1.17	0.0250	mg/kg dry	1.42	ND	82.4	80-120	0.846	20	
Toluene	1.33	0.0250	"	1.42	ND	93.7	80-120	0.744	20	
Ethylbenzene	1.51	0.0250	"	1.42	ND	106	80-120	1.87	20	
Xylene (p/m)	3.07	0.0250	"	2.84	ND	108	80-120	0.922	20	
Xylene (o)	1.52	0.0250	"	1.42	ND	107	80-120	0.930	20	
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/23/06 17:05

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 EC61702 - General Preparation (Prep)										
Blank (EC61702-BLK1)		Prepared: 03/16/06 Analyzed: 03/17/06								
% Solids	99.9		%							
Duplicate (EC61702-DUP1)		Source: 6C15014-01		Prepared: 03/16/06 Analyzed: 03/17/06						
% Solids	97.9		%		97.5			0.409	20	
Duplicate (EC61702-DUP2)		Source: 6C16004-14		Prepared: 03/16/06 Analyzed: 03/17/06						
% Solids	91.7		%		91.6			0.109	20	
Duplicate (EC61702-DUP3)		Source: 6C16013-02		Prepared: 03/16/06 Analyzed: 03/17/06						
% Solids	98.3		%		97.9			0.408	20	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

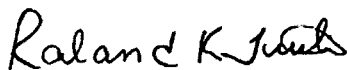
Fax: (432) 687-4914

Reported:
03/23/06 17:05

Notes and Definitions

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

Report Approved By:



Date:

3/23/2006

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

**12800 West I-20 East
Odessa, Texas 79783**

Phone: 915-583-1800
Fax: 915-583-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON

Company Name BASIN ENV. SVCS.

Company Address: P.O. Box 301

City/State/Zip: LOVINGTON, NM 88268

Telephone No: 505) 441-2124

Sampler Signature:

Fax No: 505) 396-1429

Project Name: **ABANDONED VACUUM 18"**

Project #: EMS: 2004-06208

Project Loc: **LEA COUNTY, NM**

PO #: PHA/C. REYNOLDS

[illegible]

Special Instructions:

Sample Containers Interact?

Temperature Upon Receipt: _____

Laboratory Comments:

~~Relinquished by:~~

4

7

Refrigerated by:

For more information, call 1-800-368-2772.

10

20

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

Client: Basin Env. / Plains

Date/Time: 3/16/06 10:00

Order #: 60160

Initials: CK

Sample Receipt Checklist

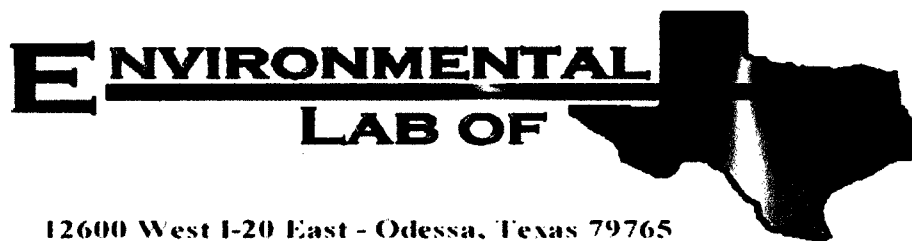
Temperature of container/cooler?	Yes	No	<u>1.0</u> C
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	<u>Yes</u>	No	Not present
Custody Seals intact on sample bottles?	<u>Yes</u>	No	Not present
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	
Container labels legible and intact?	<u>Yes</u>	No	
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea Co., NM

Lab Order Number: 6C22009

Report Date: 03/30/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C22009-01	Water	03/21/06 15:25	03/22/06 15:30
MW-2	6C22009-02	Water	03/22/06 09:15	03/22/06 15:30
MW-3	6C22009-03	Water	03/22/06 10:24	03/22/06 15:30

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C22009-01) Water									
Benzene	ND	0.00100	mg/L	1	EC62419	03/24/06	03/28/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	
MW-2 (6C22009-02) Water									
Benzene	ND	0.00100	mg/L	1	EC62805	03/28/06	03/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		86.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	80-120		"	"	"	"	
MW-3 (6C22009-03) Water									
Benzene	ND	0.00100	mg/L	1	EC62805	03/28/06	03/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 6

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EC62419 - EPA 5030C (GC)									
Blank (EC62419-BLK1)									
Prepared: 03/24/06 Analyzed: 03/27/06									
Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	34.2		ug/l	40.0		85.5	80-120		
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120		
LCS (EC62419-BS1)									
Prepared: 03/24/06 Analyzed: 03/26/06									
Benzene	0.0425	0.00100	mg/L	0.0500		85.0	80-120		
Toluene	0.0450	0.00100	"	0.0500		90.0	80-120		
Ethylbenzene	0.0461	0.00100	"	0.0500		92.2	80-120		
Xylene (p/m)	0.0943	0.00100	"	0.100		94.3	80-120		
Xylene (o)	0.0467	0.00100	"	0.0500		93.4	80-120		
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120		
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120		
Calibration Check (EC62419-CCV1)									
Prepared: 03/24/06 Analyzed: 03/28/06									
Benzene	41.7		ug/l	50.0		83.4	80-120		
Toluene	46.7		"	50.0		93.4	80-120		
Ethylbenzene	52.3		"	50.0		105	80-120		
Xylene (p/m)	106		"	100		106	80-120		
Xylene (o)	53.0		"	50.0		106	80-120		
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	80-120		
Surrogate: 4-Bromofluorobenzene	40.9		"	40.0		102	80-120		
Matrix Spike (EC62419-MS1)									
Source: 6C22009-01 Prepared: 03/24/06 Analyzed: 03/28/06									
Benzene	0.0430	0.00100	mg/L	0.0500	ND	86.0	80-120		
Toluene	0.0479	0.00100	"	0.0500	ND	95.8	80-120		
Ethylbenzene	0.0523	0.00100	"	0.0500	ND	105	80-120		
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120		
Xylene (o)	0.0514	0.00100	"	0.0500	ND	103	80-120		
Surrogate: a,a,a-Trifluorotoluene	38.6		ug/l	40.0		96.5	80-120		
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120		

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

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 EC62419 - EPA 5030C (GC)

Matrix Spike Dup (EC62419-MSD1)

Source: 6C22009-01

Prepared: 03/24/06 Analyzed: 03/28/06

Benzene	0.0425	0.00100	mg/L	0.0500	ND	85.0	80-120	1.17	20	
Toluene	0.0475	0.00100	"	0.0500	ND	95.0	80-120	0.839	20	
Ethylbenzene	0.0527	0.00100	"	0.0500	ND	105	80-120	0.00	20	
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120	1.87	20	
Xylene (o)	0.0524	0.00100	"	0.0500	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			

Batch EC62805 - EPA 5030C (GC)

Blank (EC62805-BLK1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	33.7		ug/l	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			

LCS (EC62805-BS1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0406	0.00100	mg/L	0.0500		81.2	80-120			
Toluene	0.0453	0.00100	"	0.0500		90.6	80-120			
Ethylbenzene	0.0596	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100		106	80-120			
Xylene (o)	0.0513	0.00100	"	0.0500		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.6		ug/l	40.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

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 EC62805 - EPA 5030C (GC)

Calibration Check (EC62805-CCV1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	42.5		ug/l	50.0		85.0	80-120			
Toluene	46.6		"	50.0		93.2	80-120			
Ethylbenzene	50.1		"	50.0		100	80-120			
Xylene (p/m)	101		"	100		101	80-120			
Xylene (o)	51.1		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.5		"	40.0		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

Matrix Spike (EC62805-MS1)

Source: 6C22008-01

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0401	0.00100	mg/L	0.0500	ND	80.2	80-120			
Toluene	0.0442	0.00100	"	0.0500	ND	88.4	80-120			
Ethylbenzene	0.0592	0.00100	"	0.0500	ND	118	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (o)	0.0515	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.5		ug/l	40.0		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120			

Matrix Spike Dup (EC62805-MSD1)

Source: 6C22008-01

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0407	0.00100	mg/L	0.0500	ND	81.4	80-120	1.49	20	
Toluene	0.0445	0.00100	"	0.0500	ND	89.0	80-120	0.676	20	
Ethylbenzene	0.0597	0.00100	"	0.0500	ND	119	80-120	0.844	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.939	20	
Xylene (o)	0.0516	0.00100	"	0.0500	ND	103	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/l	40.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

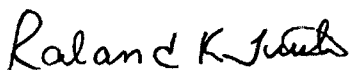
Fax: (432) 687-4914

Reported:
03/30/06 11:34

Notes and Definitions

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

Report Approved By:



Date:

3/30/2006

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

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Abandoned Vac 10"
Project #: EM5# 2004-00208
Project Loc: Lea Co., NM
PO #: PAA / C. Reynolds

Project Manager: Ken Outton
Company Name Basin Environmental
Company Address: P.O. Box 301
City/State/Zip: Lawington, NM 88760
Telephone No: 505-441-2124 Fax No: 505-396-1429

Sampler Signature:

[illegible]

Special Instructions:

Sample Containers Intact?

Temperature Upon Receipt:

Laboratory Comments:

5

Seed: ar / label

Client: BASH FLUIDS

Date/Time: 8/22/06 3:30

Order #: 6022009

Initials. OK

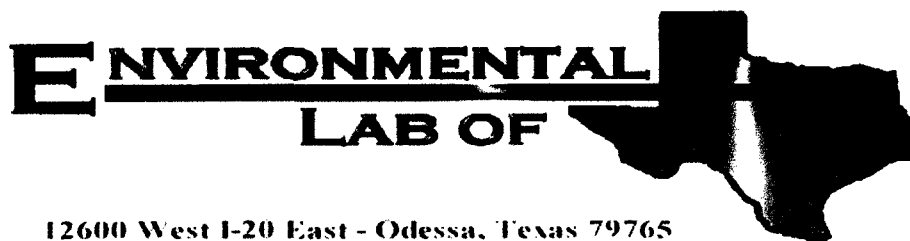
Temperature of container/cooler?	Yes	No	25	C
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yes	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea Co., NM

Lab Order Number: 6F15011

Report Date: 06/23/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6F15011-01	Water	06/08/06 10:45	06/15/06 12:45
MW-2	6F15011-02	Water	06/08/06 11:55	06/15/06 12:45
MW-3	6F15011-03	Water	06/08/06 12:40	06/15/06 12:45

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6F15011-01) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-120		"	"	"	"	
MW-2 (6F15011-02) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		97.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
MW-3 (6F15011-03) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch EF62102 - EPA 5030C (GC)								
Blank (EF62102-BLK1)			Prepared & Analyzed: 06/21/06					
Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (o)	ND	0.00100	"					
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	40.0		102	80-120	
Surrogate: 4-Bromofluorobenzene	32.0		"	40.0		80.0	80-120	
LCS (EF62102-BS1)			Prepared & Analyzed: 06/21/06					
Benzene	0.0523	0.00100	mg/L	0.0500		105	80-120	
Toluene	0.0568	0.00100	"	0.0500		114	80-120	
Ethylbenzene	0.0548	0.00100	"	0.0500		110	80-120	
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120	
Xylene (o)	0.0582	0.00100	"	0.0500		116	80-120	
Surrogate: a,a,a-Trifluorotoluene	42.8		ug/l	40.0		107	80-120	
Surrogate: 4-Bromofluorobenzene	41.1		"	40.0		103	80-120	
Calibration Check (EF62102-CCV1)			Prepared & Analyzed: 06/21/06					
Benzene	58.5		ug/l	50.0		117	80-120	
Toluene	59.9		"	50.0		120	80-120	
Ethylbenzene	58.1		"	50.0		116	80-120	
Xylene (p/m)	119		"	100		119	80-120	
Xylene (o)	59.6		"	50.0		119	80-120	
Surrogate: a,a,a-Trifluorotoluene	43.0		"	40.0		108	80-120	
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120	
Matrix Spike (EF62102-MS1)			Source: 6F15011-01	Prepared & Analyzed: 06/21/06				
Benzene	0.0523	0.00100	mg/L	0.0500	ND	105	80-120	
Toluene	0.0579	0.00100	"	0.0500	ND	116	80-120	
Ethylbenzene	0.0509	0.00100	"	0.0500	ND	102	80-120	
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120	
Xylene (o)	0.0598	0.00100	"	0.0500	ND	120	80-120	
Surrogate: a,a,a-Trifluorotoluene	44.0		ug/l	40.0		110	80-120	
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EF62102 - EPA 5030C (GC)

Matrix Spike Dup (EF62102-MSD1)

Source: 6F15011-01

Prepared & Analyzed: 06/21/06

Benzene	0.0579	0.00100	mg/L	0.0500	ND	116	80-120	9.95	20	
Toluene	0.0576	0.00100	"	0.0500	ND	115	80-120	0.866	20	
Ethylbenzene	0.0578	0.00100	"	0.0500	ND	116	80-120	12.8	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	0.837	20	
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120	3.39	20	
Surrogate: a,a,a-Trifluorotoluene	40.7		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	41.0		"	40.0		102	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

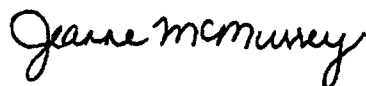
Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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: 6/23/2006

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

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

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**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton

Company Name Basin Environmental

Company Address: P.O. Box 301

City/State/Zip: Lovington, NM 88240

Telephone No: 505-441-2124 Fax No: 505-396-1429

Sampler Signature: 

[illegible]

Special Instructions:

Sample Containers Intact?
Temperature Upon Receipt:

Relinquished by: _____	Date _____	Time _____	Received by: _____	Date _____
------------------------	------------	------------	--------------------	------------

Relinquished by:	Date	Time	Received by ELOT:	Date
24	11/3/00		24	11/3/00

Received by:	Date:
--------------	-------

Received by ELOT:

Laboratory Comments: 0.5

Wells & Wells

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains

Date/Time: 6/15/08 12:45

Order #: WF15011

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	Q, S, C
Shipping container/cooler in good condition?	☒	No	
Custody Seals intact on shipping container/cooler?	☒	No	Not present
Custody Seals intact on sample bottles?	☒	No	Not present
Chain of custody present?	☒	No	
Sample Instructions complete on Chain of Custody?	☒	No	
Chain of Custody signed when relinquished and received?	☒	No	
Chain of custody agrees with sample label(s)	☒	No	
Container labels legible and intact?	☒	No	
Sample Matrix and properties same as on chain of custody?	☒	No	
Samples in proper container/bottle?	☒	No	
Samples properly preserved?	☒	No	
Sample bottles intact?	☒	No	
Preservations documented on Chain of Custody?	☒	No	
Containers documented on Chain of Custody?	☒	No	
Sufficient sample amount for indicated test?	☒	No	
All samples received within sufficient hold time?	☒	No	
DOC samples have zero headspace?	☒	No	Not Applicable

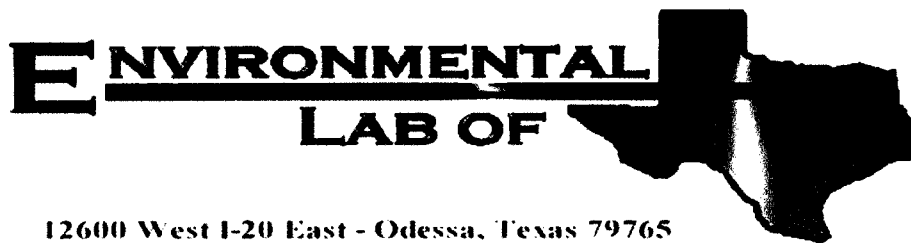
Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea County, NM

Lab Order Number: 6I15014

Report Date: 09/21/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6115014-01	Water	09/13/06 09:47	09-15-2006 13:35
MW-2	6115014-02	Water	09/13/06 10:20	09-15-2006 13:35
MW-3	6115014-03	Water	09/13/06 11:10	09-15-2006 13:35

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6115014-01) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.8 %	80-120		"	"	"	"	
MW-2 (6115014-02) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.0 %	80-120		"	"	"	"	
MW-3 (6115014-03) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.5 %	80-120		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EI61906 - EPA 5030C (GC)									
Blank (EI61906-BLK1)									
Prepared: 09/19/06 Analyzed: 09/20/06									
Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120		
LCS (EI61906-BS1)									
Prepared & Analyzed: 09/19/06									
Benzene	0.0553	0.00100	mg/L	0.0500		111	80-120		
Toluene	0.0473	0.00100	"	0.0500		94.6	80-120		
Ethylbenzene	0.0437	0.00100	"	0.0500		87.4	80-120		
Xylene (p/m)	0.105	0.00100	"	0.100		105	80-120		
Xylene (o)	0.0506	0.00100	"	0.0500		101	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/l	40.0		99.8	80-120		
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120		
Calibration Check (EI61906-CCV1)									
Prepared: 09/19/06 Analyzed: 09/20/06									
Benzene	0.0540		mg/L	0.0500		108	80-120		
Toluene	0.0482		"	0.0500		96.4	80-120		
Ethylbenzene	0.0489		"	0.0500		97.8	80-120		
Xylene (p/m)	0.0966		"	0.100		96.6	80-120		
Xylene (o)	0.0480		"	0.0500		96.0	80-120		
Surrogate: a,a,a-Trifluorotoluene	40.1		ug/l	40.0		100	80-120		
Surrogate: 4-Bromofluorobenzene	43.3		"	40.0		108	80-120		
Matrix Spike (EI61906-MS1)									
Source: 6114005-01 Prepared: 09/19/06 Analyzed: 09/20/06									
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120		
Toluene	0.0503	0.00100	"	0.0500	ND	101	80-120		
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120		
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120		
Xylene (o)	0.0511	0.00100	"	0.0500	ND	102	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120		
Surrogate: 4-Bromofluorobenzene	46.6		"	40.0		116	80-120		

Plains All American EH & S
1301 S. County Road 1150
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Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

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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 EI61906 - EPA 5030C (GC)

Matrix Spike Dup (EI61906-MSD1)

Source: 6114005-01

Prepared: 09/19/06 Analyzed: 09/20/06

Benzene	0.0580	0.00100	mg/L	0.0500	ND	116	80-120	2.55	20	
Toluene	0.0510	0.00100	"	0.0500	ND	102	80-120	0.985	20	
Ethylbenzene	0.0506	0.00100	"	0.0500	ND	101	80-120	0.995	20	
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120	0.00	20	
Xylene (o)	0.0534	0.00100	"	0.0500	ND	107	80-120	4.78	20	
Surrogate: a,a,a-Trifluorotoluene	40.0		ug/l	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			

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.

Page 4 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

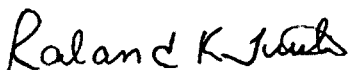
Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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:

9/21/2006

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

Client: Plains
 Date/ Time: 9/15/06 1:35
 Lab ID #: 16E15014
 Initials: UK

Sample Receipt Checklist

				Client Initials	
1	Temperature of container/ cooler?	Yes	No	<u>A.D</u>	° C
2	Shipping container in good condition?	<u>Yes</u>	No		
3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
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

**NEGATIVE SITE REPORT
CFO/RFO**

Report No.	2. Reviewer's Initials/Date _____ ACCEPTED () REJECTED ()	3. NMCRIS No.: 91933
------------	--	----------------------

of Report: Negative (X) Positive ()

of Report: III archaeological survey of an area to be impacted by cleanup on an oil spill from a	6. Fieldwork Date(s): from 17 Feb. 2005 to
s): Ann Boone	7. Report Date: 25 Feb. 2005

Consultant Name & Address: Boone Archaeological Services 030 North Canal, Carlsbad, NM 88220 Contact Charge: Danny Boone Contact Personnel Names: Danny Boone Phone: (505) 885-1352	9. Cultural Resource Permit BLM: 190-2920-03-E STATE: NM-05-157
	10. Consultant Report No. BAS 02-05-19

Customer Name: Plains All American Responsible Individual: Ken Dutton (Agent) Address: 3112 W Highway 82 Lovington, NM 88260 Phone: (505)393-5611	12. Customer Project No.: EMS 2004-00208
---	---

1 Status:	BLM	STATE	PRIVATE	OTHER	
Surveyed (acres)	1.01 (+/-)	0	0	0	1.01 (-)
of Effect (acres)	0.5 (-/+)	0	0	0	0.5 (+/

Linear: Length; NA Width; NA
Block: 210' x 210' (+/-)

ation: (Maps Attached if Negative Survey)

State: New Mexico

County: Lea

BLM Office: Carlsbad

Nearest City or Town: Monument, NM

Legal Location: T 20S, R 37E, Sec. 8, SW SW.

Vell Pad Footages: N/A

USGS 7.5 Map Name(s) and Code Number(s): MONUMENT SOUTH, NM (Prov. Ed. 1985) 32103-E3

16. Project Data:

a. Records Search: Date(s) of BLM File Review: 14 Feb. 2005 Name of Reviewer (s): Ann Boone

Date(s) of ARMS Data Review: 14 Feb. 2005 Name of Reviewer (s): Ann Boone

Findings (see Field Office requirements to determine area to be reviewed during records search):

b. Description of Undertaking:

A block estimated to be 210 feet by 210 feet square was surveyed in order to clean up an oil spill from a buried pipeline. This project is not staked but Mr. Ken Dutton met at the location with Danny Boone. Location, footage and survey acres are estimates based on a hand held GPS Unit. Impact acres are estimated, but will be within the surveyed area.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.):

Topography: Slightly rolling dunal plain.

Vegetation: Overall ground cover is approximately 30% and consists primarily of shinoak, yucca cactus, prickly pear cactus, various grasses and other flora.

NRCS: Peyote-Maljamar-Kermit association: Gently undulating and rolling, deep, sandy soils.

d. Field Methods: (transect intervals; crew size; time in field, etc.):

Transects: Parallel grid spaced up to 15 meters apart.

Crew Size: One

Time in Field: 1.0 hour.

e. Artifacts Collected (?): None

17. Cultural Resource Findings:

a. Identification and description: None

b. Evaluation of significance of Each Resource: None

18. Management Summary (Recommendations):

No cultural resources were located during the survey, therefore archaeological clearance is recommended. If cultural resources are encountered at any time all activity should cease and the BLM Archaeologist notified immediately.

19.

I certify that the information provided above is correct and accurate and meets all appreciable BLM standards.

Responsible Archaeologist

Danny Boone

Signature

25 Feb. 2005

Date

Plains Marketing, L. P. Abandoned Vacuum 10" Sour Lea County, New Mexico NW/SW S8, T20S, R37E EMS: 2004-00208					
Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5		38.9 ppm			Backfill
10		6.9 ppm			
15		197 ppm	Moderate	Slight	Sand (SM) Tan, Very Fine Grained, Well Sorted, Moist
20		540 ppm	Moderate	Slight	Sand (SM) Gray-Tan, Very Fine Grained, Well Sorted, Moist
25		930 ppm	Moderate	Slight	
30		238 ppm	None	None	Sand (SM) Red-Brown, Very Fine Grained, Well Sorted, Moist
35 TD		36.5 ppm	None	None	
Soil Boring Completion Data TD: 35 Feet bgs Installed 23 October 2004 Basin Environmental Service Technologies ☐ Samples selected for analysis 7 bags of hydrated Bentonite Plug Surface to 35' bgs					
TITLE		DESCRIPTION			
Appendix E Abandoned Vacuum 10" Sour		Soil Boring 1			
DRAWN BY		DATE			
KAD		30 September 2006			

Plains Marketing, L. P.

Abandoned Vacuum 10" Sour

Lea County, New Mexico

NW/SW S8, T20S, R37E

EMS: 2004-00208

Soil Description

Sand (SM) White-Brown, Very Fine Grained, Well Sorted, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

0.0 ppm

Soil Column

Depth

5

10

15

20

25

DTW 28' bgs

30

35

40 TD

Monitor Well Completion Data

Groundwater Depth

TD: 40 Feet bgs

Installed 15 March 2006

Basin Environmental Service Technologies

☐

Samples selected for analysis

20 Feet 2" 010 PVC Screen

23 Feet 2" PVC Riser

15 Feet bgs to Sand Pack

15 Feet to Surface, Hydrated Bentonite Seal

2 X 2 Feet Concrete Surface Pad, w/4 X 60 Inch Metal Locking Square Protector

Soil Description

Sand (SM) Red-Brown, Very Fine Grained, Well Sorted, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

0.0 ppm

TITLE

Appendix E

Abandoned Vacuum 10" Sour

DRAWN BY

KAD

DESCRIPTION

Monitoring Well-1

DATE

30 September 2006

Plains Marketing, L. P.

Abandoned Vacuum 10" Sour

Lea County, New Mexico

NW/SW S8, T20S, R37E

EMS: 2004-00208

Soil Column

5

10

15

20

25

30

35

40

DTW 29' bgs

Soil Description

Sand (SM) White-Brown, Very Fine Grained, Well Sorted, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

0.0 ppm

Groundwater Depth

TD: 40 Feet bgs

Installed 15 March 2006

Basin Environmental Service Technologies

Samples selected for analysis

☐

20 Feet 2" 010 PVC Screen

23 Feet 2" PVC Riser

15 Feet bgs to Sand Pack

15 Feet to Surface, Hydrated Bentonite Seal

2 X 2 Feet Concrete Surface Pad, w/4 X 60 Inch Metal Locking Square Protector

Soil Description

Sand (SM) Red-Brown, Very Fine Grained, Well Sorted, Dry

Petroleum Stain

None

Petroleum Odor

None

PID Reading

0.0 ppm

0.0 ppm

0.0 ppm

None

None

Monitor Well Completion Data

Groundwater Depth

TD: 40 Feet bgs

Installed 15 March 2006

Basin Environmental Service Technologies

Samples selected for analysis

☐

20 Feet 2" 010 PVC Screen

23 Feet 2" PVC Riser

15 Feet bgs to Sand Pack

15 Feet to Surface, Hydrated Bentonite Seal

2 X 2 Feet Concrete Surface Pad, w/4 X 60 Inch Metal Locking Square Protector

TITLE

Appendix E

Abandoned Vacuum 10" Sour

DRAWN BY

KAD

DESCRIPTION

Monitoring Well-3

DATE

30 September 2006

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised 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

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Abandoned Vacuum 10" Sour	Facility Type 10" Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.
-------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter M	Section 31	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32° 35' 025"

Longitude 103° 16' 46.6"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 8 barrels	Volume Recovered 3 barrels
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence 10/7/04 @ 10:30	Date and Hour of Discovery 10/7/04 @ 10:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 10-12-04 @ 15:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Abandoned 10 line separated at weld connection of 4 inch adjoining line. The 10 inch line was cut and capped. The line is abandoned so information concerning volume and pressure on line is unavailable.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 1,572 square feet.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds		Approved by District Supervisor:	
Title: Remediation Coordinator		Approval Date:	Expiration Date:
E-mail Address: cjreynolds@pealp.com		Conditions of Approval:	
Date: 10-21-04 Phone: 505-441-0965		Attached ☐	

Attach Additional Sheets If Necessary