SOIL CLOSURE REPORT
VACUUM TO JAL 14" MAINLINE #4
PLAINS SRS NO. 2003-00126
NE I/4, OF NW I/4, SECTION 28, T20S, R37E
Lea County, New Mexico
NMOCD No. 1RP-374

PREPARED FOR

PLAINS MARKETING, L.P.

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Project No. 204155.00

April 2007

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Application - pPAC0603053169

Table of Contents

DISCLAIMER

Premier has examined and relied upon the file information provided by Plains. Premier has not conducted an independent examination of the information contained in the Plains files; furthermore, we assume the genuineness of the documents reviewed and that the information provided in these documents to be true and accurate. Premier has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. Premier will not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this report was prepared. Premier believes the conclusions stated herein are factual, but no guarantee is made or implied.

EXECUTIVE SUMMARY

Premier Environmental Services, Inc. (Premier) prepared this **Soil Closure Report** *(Report)* on behalf of Plains Marketing, L.P. (Plains) for the Vacuum to Jal 14", Mainline #4 line (Site), located in T20S, R37E, Section 28 of Lea County, New Mexico, approximately 2 miles east of Eunice, New Mexico (Figure 1, Appendix A). Hydrocarbon impact at the Site was the result of a 15 barrel crude oil release that occurred on May 15, 2003. Documentation of the initial soil sampling, excavation, and emergency response activities associated with the release is presented in the **Supplemental Investigation Report and Remediation Proposal**, prepared in November 2005 by Premier. The pipeline was owned by EOTT Energy, LLC (EOTT) at the time of the release, and is currently owned by Plains.

In February 2007, Premier oversaw excavation and conducted confirmation sampling activities to remove soils affected by the May 2003 crude oil release. The excavation was completed based on a soil investigation conducted by Premier in 2005. Figure 2 (in Appendix B) illustrates the trenches and sample locations from the 2005 investigation. The February 2007 excavation activities resulted in a rectangular-shaped trench that paralleled the pipeline. The excavation measured approximately 165 feet long by 27 feet wide with an average depth of 13 feet below ground surface (bgs). Figure 3, in Appendix A, shows the size and shape of the February 2007 excavation.

Remediation included the excavation of affected soil, collection of confirmation samples from the sidewalls and bottom of the excavation, transportation of excavated/stockpiled soils off-site for disposal/treatment and backfilling of the open excavation with clean fill material. Analytical results for the eight sidewall and three excavation bottom samples confirmed that the February 2007 excavation activities were complete as no constituents were identified with concentrations above New Mexico Oil Conservation Division (NMOCD) remediation standards of 10 mg/kg benzene, 50 mg/kg total BTEX (benzene, toluene, ethylbenzene and total xylenes) and 100 mg/kg total petroleum hydrocarbons (TPH).

Analytical data from the sidewall and bottom samples collected in February 2007 demonstrate hydrocarbon impacted soils have been vertically and horizontally defined and removed based on NMOCD remediation standards. As NMOCD closure criteria have been met, Premier is requesting NMOCD closure for the Plains Vac to Jal #4 Site.

1.0 INTRODUCTION AND SITE HISTORY

In 2005, Premier was retained by Plains to complete delineation and remediation of hydrocarbon affected soil at the Vac to Jal 14" Mainline, #4 (SRS No. 2003-00126). The land is owned by the Millard Deck Estate and is located in T20S, R37E, Section 28 in Lea County, New Mexico. The Site is approximately 2 miles east of Eunice, New Mexico (Figure 1, Appendix A). A crude oil release occurred on May 15, 2003 at the Site and happened while the line was being de-oiled. The release was reported (on EOTT's behalf), by Mr. Pat McCasland, of Environmental Plus, Inc. (EPI) to Ms. Sylvia Dickie of NMOCD (Appendix F, C-141 Release Notification Form).

Data on the NMOCD C-141 Release Notification Form indicates that approximately 15 barrels of crude oil were released. According to information in the historical files, EPI performed initial emergency response activities after the release occurred. Emergency response activities included the excavation of approximately 200 yd^3 of crude oil affected soil. Impacted soil was placed on plastic sheeting, and was subsequently transported off-site for disposal at the South Monument SWDF facility in Monument, New Mexico. A copy of the NMOCD C-138 form associated with the removal of this soil is included in Appendix D.

Following the emergency response excavation, EPI installed four soil borings on June 11, 2003 to a maximum depth of 15 feet bgs, to further delineate hydrocarbon impacted soil. Analytical results indicated that all constituents were below NMOCD's remediation cleanup standards.

After reviewing site information found in the EPI files, it was determined that additional investigation was necessary to complete delineation of impacted soil. Based on these findings, a supplemental investigation was overtaken by Premier in August and September 2005. The supplemental investigation included the excavation of three test trenches (north, west and south trenches) to a maximum depth of 12 feet bgs and the installation of one soil boring (SB-1) to a total depth of 20 feet bgs (Figure 2, Appendix A).

Using the intersection of the Plains and the Doyle Hatman (Plantation) pipelines as the benchmark, the north trench extended from approximately 8 feet to 30 feet north of the pipeline intersection. The west trench extended from approximately 8 feet to 18 feet west of the pipeline intersection. The south trench began from a point approximately 14 feet east of the pipeline intersection and extended approximately 10 feet to the south (see Figure 2).

Soils generated during the trench excavations were examined for the presence of hydrocarbons based on visible stains, odors and photoionization (PID) readings. Soil samples were collected from the trenches to identify the vertical and lateral limits of hydrocarbon affected soil and were analyzed for TPH by EPA Method 8015 (diesel DRO and gasoline range organics (GRO)). Analytical results for the samples collected during

the trenching activities indicated one sample with a TPH concentration above the NMOCD cleanup standard of 100 mg/kg. The sample collected from the north trench, approximately 6 feet east of the release point, at 12 feet bgs, contained a TPH concentration of 300 mg/kg (DRO). Analytical results for the six remaining trench samples indicated that no other locations were identified with TPH concentrations above the 100 mg/kg remediation standard.

Based on the analyses of the trench samples, Premier oversaw the installation of one soil boring (SB-1) on September 16, 2005. SB-1 was installed very near the north trench sample that contained 300 mg/kg TPH. To confirm delineation of hydrocarbon affected soils vertically, samples from 15 and 20 feet bgs were collected for BTEX and TPH analysis at the SB-1 location. Analytical results for the two soil samples collected from SB-1 confirmed that the vertical extent was defined as both samples indicated non-detect results for all BTEX and TPH constituents. Table 1 (Appendix B) presents a summary of the BTEX and TPH analytical results for the August and September 2005 trench and boring samples.

Details can be found in Premier's November 2005 **Supplemental Investigation Report and Remediation Proposal**. This report details the activities completed to attain closure at the Site, based on NMOCD closure criteria.

2.0 ENVIRONMENTAL CHARACTERIZATION

2.1 Geological Description

In Lea County, bedrock frequently outcrops at the ground surface or is thinly interbedded with alluvium and eolian dune sands. The bedrock outcrops range from Triassic Age lithofied strata to Pleistocene Age sediments. The Recent Age Mescalero sands cover 80% of Lea County, and are described as fine to medium-grained and reddish brown in color. Lea County lies in the Pecos Valley Section of the Great Plains Province, very near the Southern High Plains to the east. The Tertiary Age Ogallala Formation underlies the High Plains and is exposed on several ridges in Lea County.

The uppermost sediments at the Site are largely unstable sands. Wind generated sand dunes, somewhat stabilized with vegetation including mesquite and shinnery oak are found in the general area. One to four feet of aeolian sands overlie silty to sandy caliche with minor clay lenses present near the groundwater interface. The relatively flat topographic surface slopes very gently to the southeast and Monument Draw bisects the area east of the Site.

2.2 Land Use

Land use in the area is primarily livestock rangeland and oil and gas production. Several gas compressor stations are located in the vicinity of the Site and several major oil and gas

transmission lines bisect the region. The area in the immediate vicinity of the Site is sparsely populated.

2.3 Groundwater

The New Mexico Office of the State Engineer database lists one agricultural usage water well approximately 660 feet to the northwest of the Site. According to the New Mexico Office of the State Engineer, and based on professional experience in the vicinity, groundwater generally occurs around 40 feet bgs in this area.

2.4 Surface Water

The Site is located in an arid environment and there are no perennial streams or persistent water bodies proximal to the Site. The Site is located on the southwesterly slope of Monument Draw. Surface water, in the form of storm water, runs overland, draining southwest to Monument Draw (Figure 1, Appendix A).

3.0 REGULATORY FRAMEWORK

In New Mexico, the NMOCD oversees and regulates oil, gas and geothermal activities, including enforcement and compliance with environmental regulations. Guidance for cleanup of crude oil releases is provided in the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993) document. Primary contaminants, or COCs, associated with crude oil releases include TPH and BTEX. Guidelines for these COCs in soil are evaluated based on a Site ranking system. The ranking system estimates the likelihood of exposures to the COCs and is based on the following three parameters to protect groundwater and surface water resources:

- Depth to groundwater.
- Wellhead protection area.
- Distance to surface water body.

Chemical parameters of the soil were evaluated consistent with the objectives set out by these NMOCD documents.

3.1 NMOCD Site Ranking

Based on the proximity of the Site to area water wells, surface water bodies, and depth to groundwater, the Site has a NMOCD ranking score of **20 points**, with the soil remedial goals specified below in the Site Ranking Matrix.

Site Ranking Matrix

1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or, <200' from private domestic water source: *20 points*	<200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: 10 points
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or, >200' from private domestic water source: *0 points*	>1000 horizontal feet: 0 points
Groundwater Score:20	*Wellhead Protection Area Score: 0*	*Surface Water Score: 0*
Site Rank (1+2+3) =20+0+0=20		

Total Site Ranking Score and Initial Guidance Cleanup Concentrations

Parameter	20 or >	10	0
Benzene	**10 ppm**	10 ppm	10 ppm
BTEX	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

Based on typical NMOCD remediation standards, the analytical goals of the February 2007 excavation for sidewall and excavation bottom confirmation samples were: TPH target concentration of 100 mg/kg, benzene target concentration of 10 mg/kg and total BTEX target concentration of 50 mg/kg.

4.0 REMEDIATION ACTIVITIES

Due to the presence of soils with TPH concentrations in excess of NMOCD's 100 mg/kg remediation standard and the location of the Site within Monument Draw, Premier recommended that impacted soils be removed and treated or disposed of at an off-site facility and the excavation be filled with acceptable backfill (November 2005 **Supplemental Investigation Report and Remediation Proposal**). Soil remediation was completed in January and February 2007, and included excavation of hydrocarbon impacted soils identified in previous Site investigations. Remediation included the collection of confirmation samples from the bottom and sidewalls of the excavation to verify that impacted soils were removed to NMOCD standards.

4.1 Excavation and Off-site Disposal

Premier personnel oversaw excavation at the Site during January and February 2007 remediation activities. B&H Maintenance and Construction (B&H), of Eunice, New Mexico provided the track-hoe and personnel required to complete excavation activities. Excavation began on January 25, 2007, near the intersection of the Plains and Doyle Hartman (Plantation) pipelines (Figure 3, Appendix A; Photograph #1, Appendix C). The

excavation extended in north-south directions along the Plains pipeline until visual observations and field TPH analysis indicated minimal to no impact in soil.

To prevent the pipeline from sagging and potentially being damaged as the excavation continued B&H braced the pipeline by placing support materials under the pipeline. These support braces were placed approximately 30 feet apart along the line (Photographs 2 and 3, Appendix C). The excavation extended approximately 40 feet south of the intersection between the two pipelines and approximately 125 feet north of the pipeline intersection (Photograph 4, Appendix C). During excavation, the sidewalls were sloped at a ratio of approximately 1 to 1.5 to prevent caving.

The average width at the base of the excavation was approximately 27 feet, while the depth ranged between 11 and 16 feet bgs (Figure 3, Appendix A). The soil is primarily silty sand with some caliche and one area of clay. A greenish gray clay layer was encountered approximately 50 feet north of the pipeline intersection. The clay layer was present beneath the location of the original release at approximately 15 feet bgs (Photograph 5, Appendix C). Excavated soil was temporarily stockpiled on both sides of the pipeline.

In lieu of treating the excavated soil and returning it to the excavation, Plains transported all soil off-site for treatment. In February 2007, approximately 3,264 yards (272 truckloads with approximately 12 cubic yards per load) of excavated soil was transported to the Plains Lea Station Landfarm facility in Lea County, New Mexico. A copy of the NMOCD C-138 Form verifying land farming activities is included in Appendix D.

4.2 Confirmation Sampling

Using visual observations and field TPH analysis to determine remediation completeness, confirmation samples were collected for laboratory verifications. Confirmation samples were collected from the base and sidewalls of the excavation using the following protocol:

- Sidewall samples – one sample approximately every 50 linear feet.
- Bottom samples – one sample approximately every 50 linear feet.
- Confirmation samples were analyzed for TPH C_6-C_{12}, TPH C_{12}-C_{28} and TPH C_{28}-C_{35} by EPA method SW 846 8015M and BTEX by EPA method SW 846 8021B.
- Confirmation sidewall and excavation bottom sample analytical results were compared to NMOCD remediation cleanup standards.

Prior to collecting confirmation samples for laboratory analysis, Premier personnel used a field TPH analyzer to assist in verifying that sufficient soils had been excavated. Results from the field TPH analyzer indicated that all results were below NMOCD's 100 mg/kg target concentration for TPH. Table 3, Appendix B, describes locations of confirmation samples, as well as TPH field analysis results. Soil removal was deemed complete upon

meeting remediation standards for the floor and sidewalls at less than 100 mg/kg TPH, less than 10 mg/kg benzene, and less than 50 mg/kg total BTEX concentrations.

On February 14, 2007, three excavation bottom samples (BH-1, BH-2 and BH-3) and eight sidewall samples (SW-1 through SW-8) were collected from the open excavation and sent to Accutest Laboratory in Houston, Texas for analysis. All samples were collected in laboratory provided containers and placed in a cooler with ice prior to overnight shipment to the lab. Analytical results for all confirmation sidewall and excavation bottom samples are summarized in Table 3, Appendix B. Laboratory reports are found in Appendix E.

4.2.1 Confirmation Sidewall Sampling

On February 14, 2007, eight sidewall confirmation samples (SW-1 through SW-8) were collected from the open excavation. SW-1 was collected from the southern end of the excavation, SW-2 was collected from the southwest corner of the excavation, while the locations of the remaining sidewall samples (SW-3 through SW-8) proceeded in a clockwise direction from SW-2, back around toward the location of SW-1. The samples were approximately 50 feet apart (Figure 4, Appendix A; Table 2, Appendix B).

Analytical results for the eight sidewall samples indicated that TPH and BTEX concentrations were below the method detection limits and below the NMOCD cleanup limits for this Site. These results demonstrated that affected soils were removed and no additional sidewall excavation was needed (Figure 4, Appendix A). Analytical results for confirmation samples are summarized on Table 3, Appendix B.

4.2.2 Confirmation Excavation Bottom Sampling

Three confirmation soil samples were collected from the base or bottom of the excavation. These samples, BH-1, BH-2 and BH-3, were also collected on February 14, 2007 and were collected from approximately 16 feet bgs, 11 feet bgs and 15 feet bgs respectively. Sample BH-1 was collected from the southeastern end of the excavation, approximately 5 feet east of the Plains pipeline. Analytical results for BH-1 indicated concentrations of 14.5 mg/kg TPH C_6-C_{12} and 59.7 mg/kg TPH C_{12}-C_{28}, while TPH C_{28}-C_{35} was not detected (< 10 mg/kg). The combined TPH concentration for sample BH-1 was 74.2 mg/kg, while all the BTEX constituents were below the laboratory's reporting limit (Figure 4, Appendix A; Table 3, Appendix B).

Sample BH-2 was collected from approximately 25 to 30 feet north of the pipelines intersection and approximately 8 feet east of the Plains pipeline (see Figure 4). Analytical results for BH-2 indicated concentrations of 0.00285 mg/kg benzene and 0.0217 mg/kg toluene, while ethylbenzene, total xylenes and TPH concentrations were below laboratory detection limits. BH-3 was collected from the area below the point of the original release (approximately 90 feet north of the intersection between the two pipelines). Analytical results for sample BH-3 indicated that all BTEX and TPH constituents were below laboratory detection limits. Laboratory results are summarized on Table 3 in Appendix B,

while a copy of the laboratory report is included in Appendix E. Laboratory results indicated that no additional remediation was required along the base of the excavation.

4.3 Backfill and Grade Excavation

Upon determination that excavation was complete based on sidewall and bottom sample analytical results, the excavation was backfilled with clean surface soil from an on-site, nearby sand dune, as requested by the property owner. The filled trench was compacted using the track hoe and returned to the natural grade. Photograph 6 (Appendix C) shows the area after the backfilling and grading activities were completed. The surface vegetation will be restored by reseeding or as negotiated with the landowner.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The soil excavation undertaken at the Vacuum to Jal 14" Mainline #4 site was conducted in accordance standard industry practices to remove hydrocarbon impacted soil that resulted from a crude oil release that occurred at the Site on May 15, 2003. The excavation activities completed between January 25 and February 26, 2007 accomplished the following:

- The excavation was a rectangular-shaped trench that paralleled the 14-inch Plains pipeline. The base of the excavation was approximately 165 feet long, 27 feet wide, with depths ranging from 11 to 16 feet bgs.

- Confirmation soil samples were collected from the sidewalls and the bottom of the excavation. Analytical results were compared to NMOCD remediation cleanup standards to verify complete remediation.

- NMOCD remediation criteria were attained, demonstrated by analytical results of sidewall and bottom hole confirmation samples.

- Excavated soils were transported off-site to the Plains Lea Station Landfarm facility in Lea County, New Mexico for treatment.

- The open excavation was filled with clean soil from an on-site, nearby sand dune (as requested by the property owner). Using the backhoe, the excavation was filled in, compacted, leveled and graded and the Site was brought back to it's natural grade as part of completing the project.

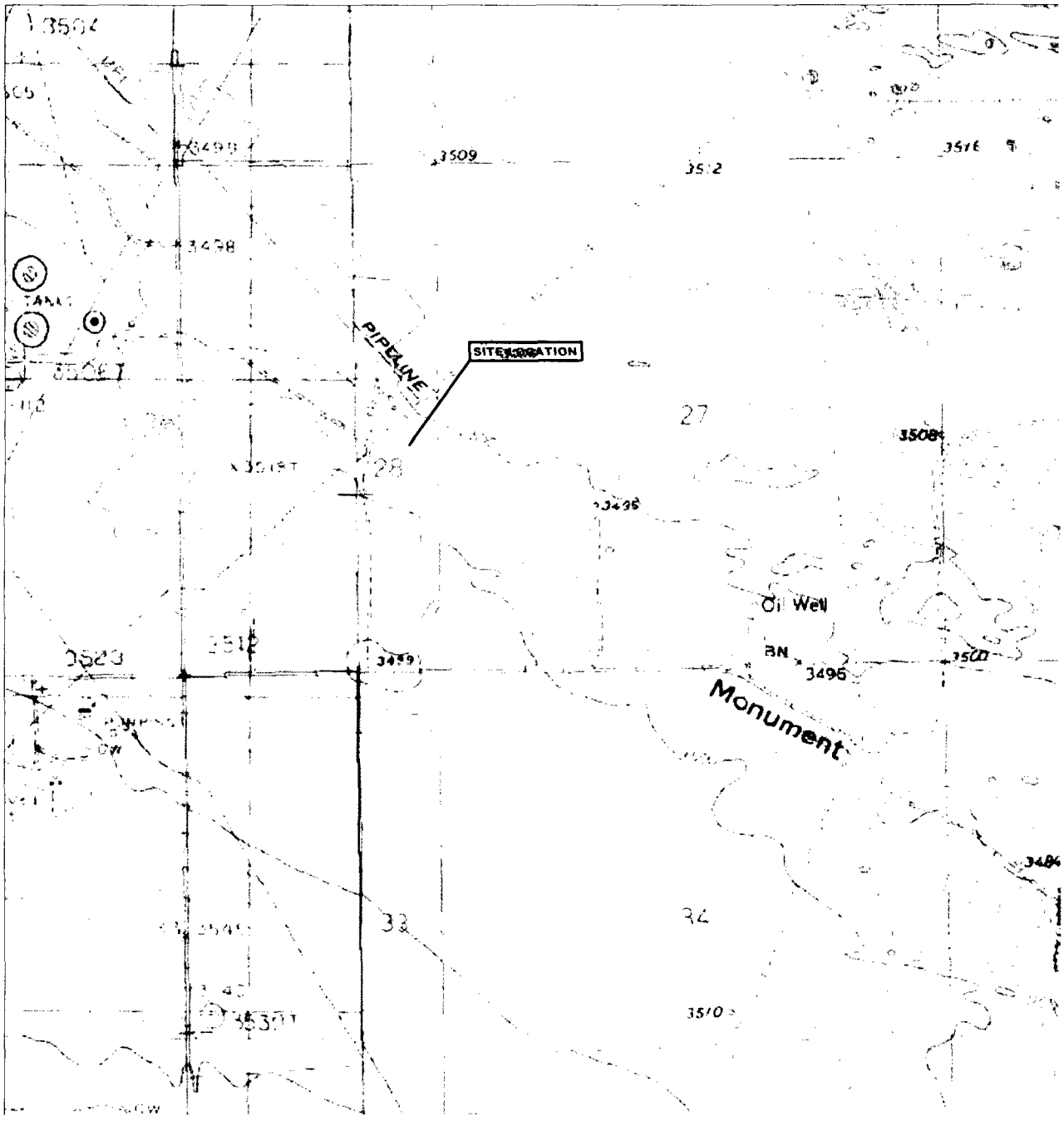
The surface vegetation will be restored by reseeding in late spring or early summer of 2007.

The remedial activities completed at the Site to date, including excavation, confirmation sampling and analytical results, backfilling and site grading that are described in this report, demonstrate that NMOCD remediation standards have been met. Premier recommends that Plains submit this report to NMOCD for final regulatory approval and closure at this Site, and request a "No Further Action required for remediation" letter from NMOCD.

Appendix A -

Figures

Figure 1	**Site Location Map**
Figure 2	**2005 Investigation - Boring Locations**
Figure 3	**2007 Site Map with Approximate Excavation Boundaries**
Figure 4	**2007 BTEX and TPH Soil Confirmation Analytical Results**



Hobbs SW Quadrangle
32°32'36"N Latitude & 103°14'56"W Longitude

1/2 1/4 0 1/4 1/2
Distance in Miles

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Figure 1
Site Location Map
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #4
SRS. No.: 2003-00126
Lea County, New Mexico

PROJ. NO: 204155.00	CK:	DATE: 4/07

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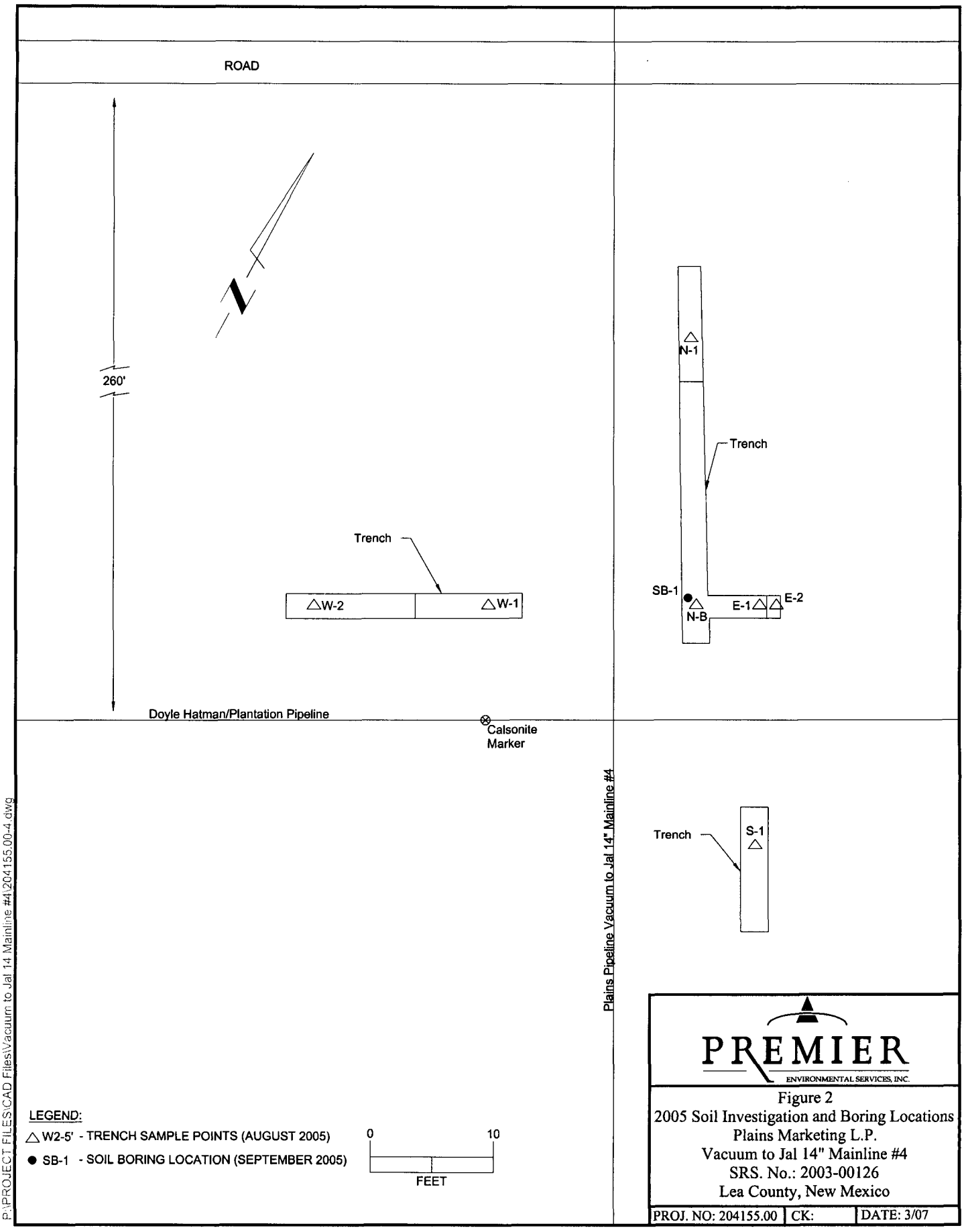

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Figure 2
2005 Soil Investigation and Boring Locations
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #4
SRS. No.: 2003-00126
Lea County, New Mexico

PROJ. NO: 204155.00	CK:	DATE: 3/07

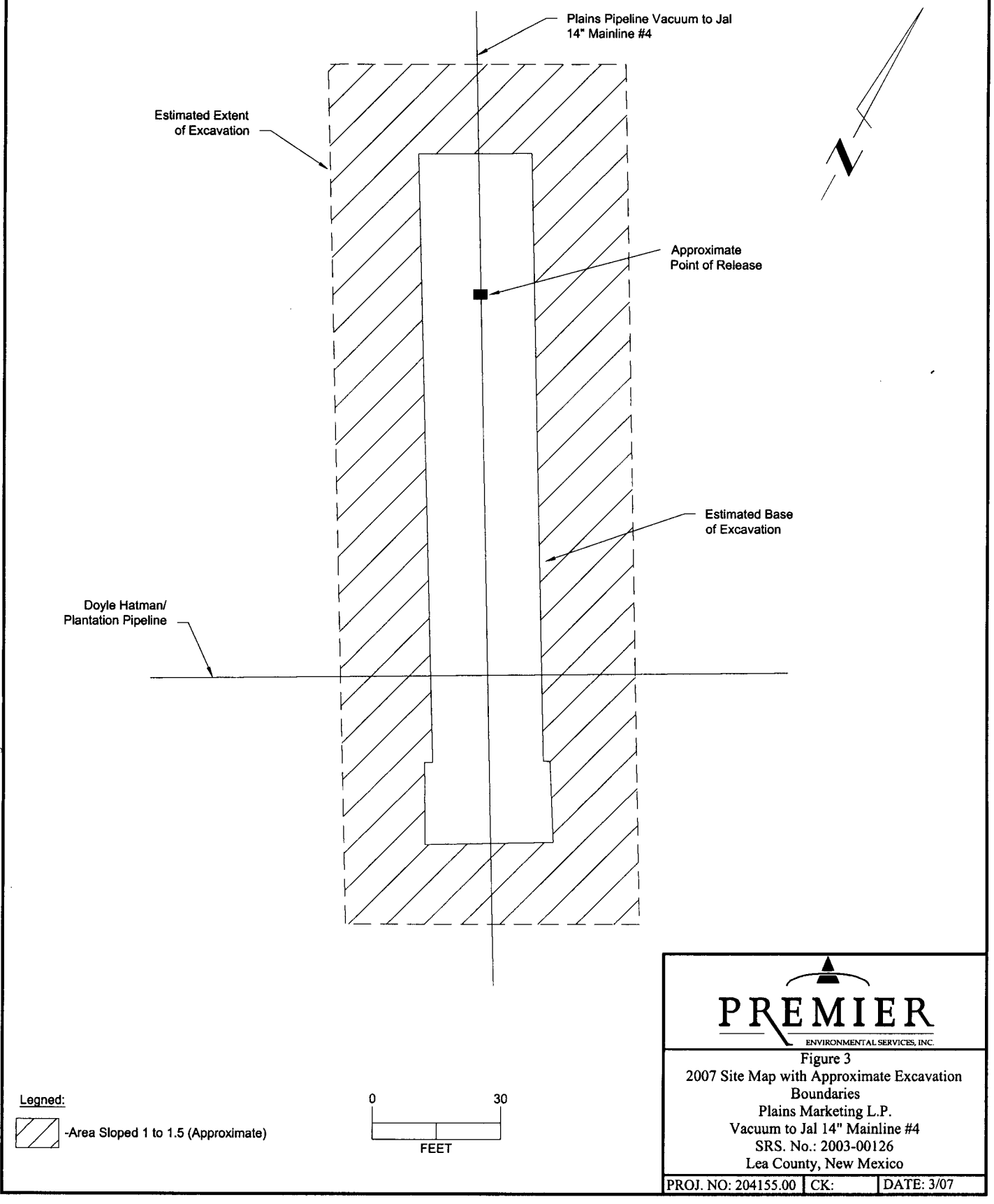

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Figure 3
2007 Site Map with Approximate Excavation Boundaries
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #4
SRS. No.: 2003-00126
Lea County, New Mexico

PROJ. NO: 204155.00	CK:	DATE: 3/07

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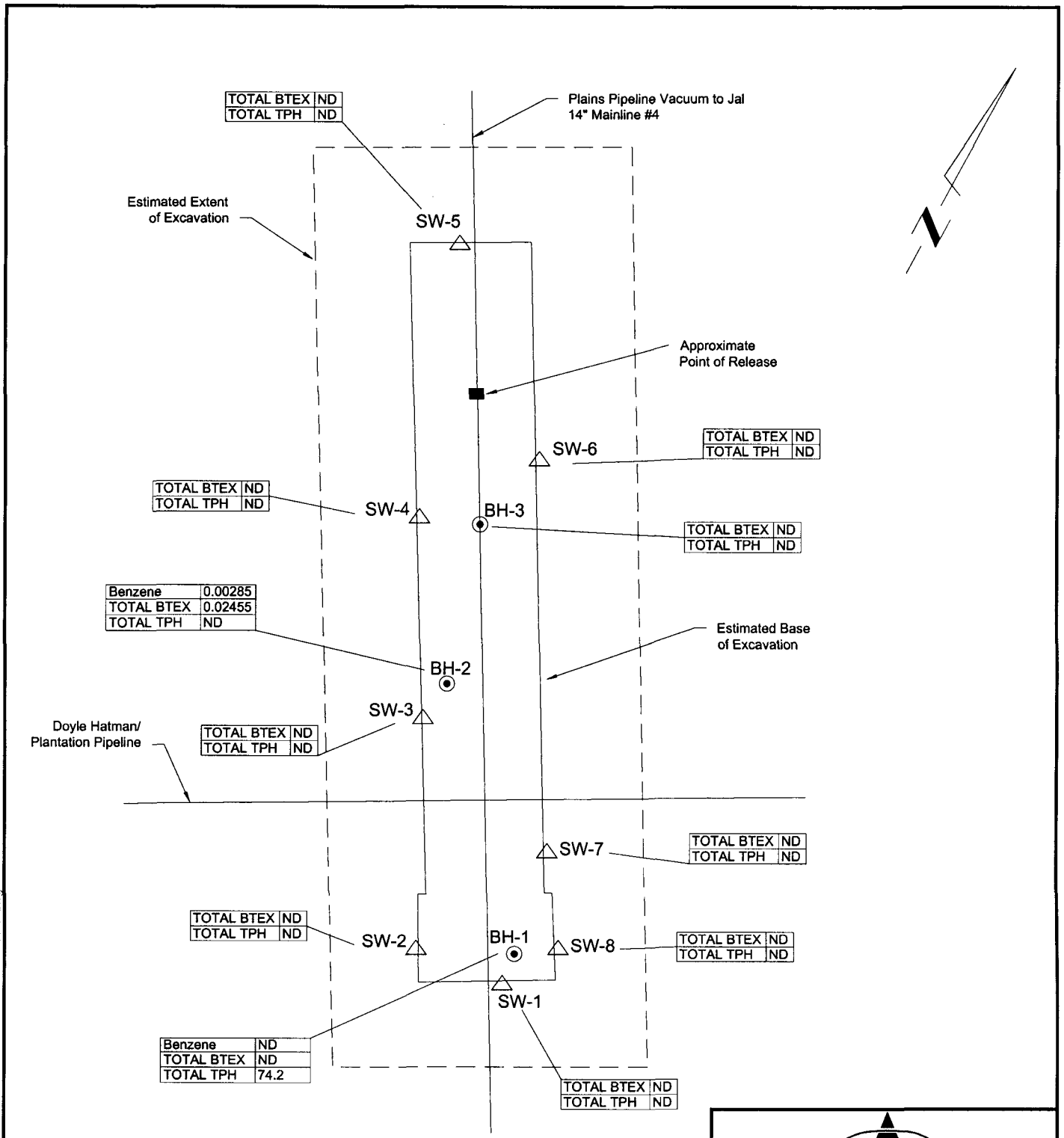

LEGEND:

△SW-1 - SIDEWALL SAMPLE LOCATION

⊙ BH-1 - BOTTOM HOLE OR SOIL SAMPLE FROM BASE OF EXCAVATION

Note: All concentrations in mg/kg.
ND: Below Detion Limits
Detection Limits: BTEX= 0.002 mg/kg
Detection Limits: TPH= 10 mg/kg

0 30
FEET

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Figure 4
2007 BTEX and TPH Soil
Confirmation Analytical Results
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #4
SRS. No.: 2003-00126
Lea County, New Mexico

PROJ. NO: 204155.00	CK:	DATE: 3/07

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Appendix B Tables

Table 1
2005 Soil Analytical Results - Supplemental Investigation
Plains Marketing L.P.
SRS #2003-00126
Vacuum to Jal #4
Lea County, New Mexico

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N-B-12'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	**300**	**300**
E-1-4'	11-Aug-05	NA	NA	NA	NA	NA	0.16	60	60.16
E-2-8'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	< 50	ND
N-1-8'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	< 50	ND
W-1-5'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	< 50	ND
W-2-5'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	< 50	ND
S-1-8'	11-Aug-05	NA	NA	NA	NA	NA	< 0.050	< 50	ND
SB1-15'	16-Sep-05	< 0.0058	< 0.0058	< 0.0058	< 0.018	ND	< 6.7	< 9.8	ND
SB1-20'	16-Sep-05	< 0.0056	< 0.0056	< 0.0056	< 0.017	ND	< 6.1	< 9.4	ND
NMOCD Remediation Standards		10				50			100

Notes: ND = Not detected above laboratory reporting limit.

Bold = Represents concentration above NMOCD Remediation Cleanup Standard.

Table 2
2007 Soil Sample Locations - Field TPH Results
Plains Marketing, L.P.
SRS No. 2003-00126
Vacuum to Jal #4
Lea County, New Mexico

BH-1	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	-34	6	15	East end bottom hole	62
BH-2	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	25	-8	12	Center of bottom hole excavation	16
BH-3	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	61	0	15	West end of bottom of the excavation	3
SW-1	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	-50	5	13	East wall	4
SW-2	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	-41	-8	13	East end of the south wall	2
SW-3	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	19	-18	6	Central south wall	33
SW-4	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	64	-16	7	West end of south wall	4
SW-5	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	104	-2	7	West wall	5
SW-6	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	77	16.5	8	West end of north wall	42
SW-7	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	-13	145	7	Central north wall	33
SW-8	2/14/2007	Intersection of Plantation gas line and Vac To Jal 14"	-33	21	13	east end of north wall	ND

Notes: Reference Point * = Pipeline intersection - North and East positive distances, South and West negative distances measurements
Field Readings = TPH field analyzer
BH = Bottom Hole or Base of Excavation Samples
SW = Sidewall
ND = Not Detected

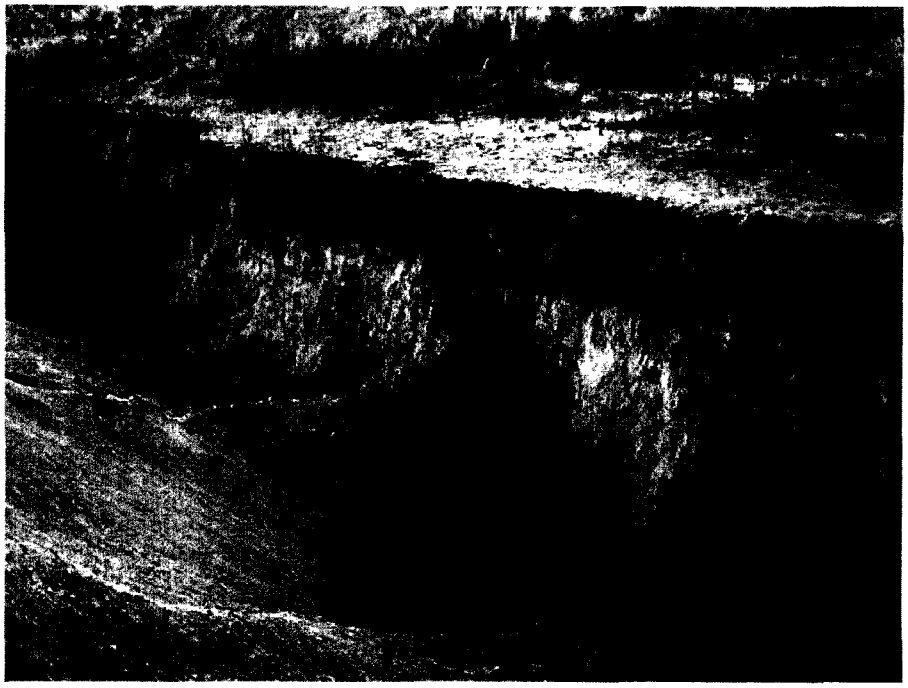
Table 3
2007 Soil Confirmation Samples - Analytical Results
Plains Marketing L.P.
SRS #2003-00126
Vacuum to Jal #4
Lea County, New Mexico

BH-1	7B15010-01	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	14.5	59.7	< 10	74.2
BH-2	7B15010-02	14-Feb-07	0.00285	0.0217	< 0.002	< 0.002	0.02455	< 10	< 10	< 10	< 10
BH-3	7B15010-03	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-1	7B15010-04	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-2	7B15010-05	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-3	7B15010-06	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-4	7B15010-07	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-5	7B15010-08	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-6	7B15010-09	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-7	7B15010-10	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
SW-8	7B15010-11	14-Feb-07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 10	< 10	< 10	< 10
NMOCD Remediation Standards			10				50				100

Notes:
1. BH-1 - Bottom hole or excavation bottom soil samples.
2. SW-1 - Confirmation sidewall soil samples.
3. See Figure 3 for sample locations.

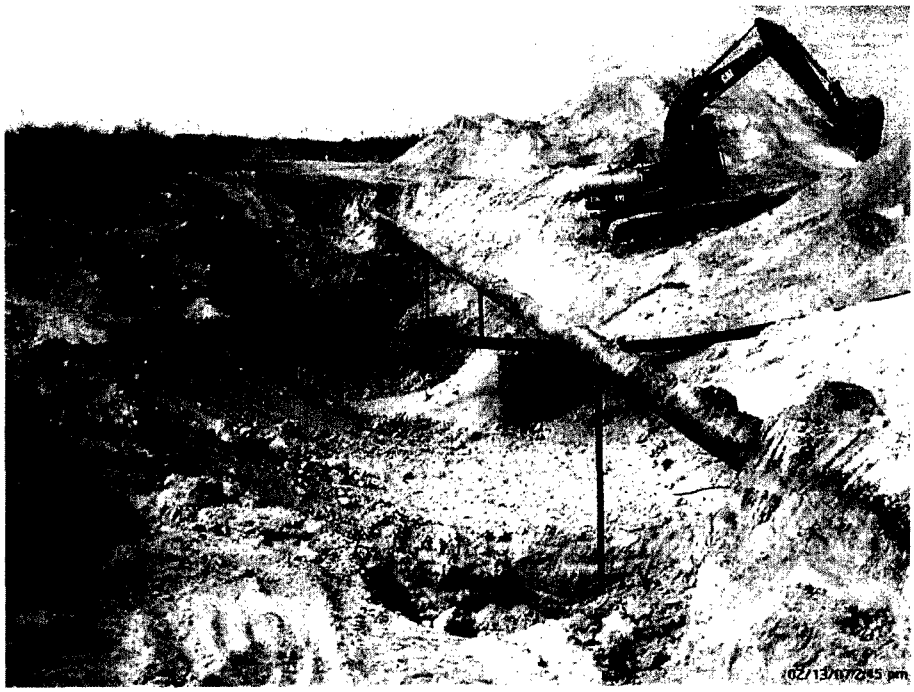
Appendix C

Site Photographs



Photograph 1: Photograph shows the intersection between the Plains pipeline (upper line) and the Doyle Hatman pipeline (lower line).

Photograph 2: Wooden supports placed under the pipeline to Prevent sagging during excavation activities.



Photograph 3: Photograph shows how support stands were used to support the pipeline during excavation activities. Photo taken viewing north.

Photograph 4: Photograph shows a portion of the northern portion of excavation.

Photograph 5: Photograph illustrates the greenish gray clay unit encountered at approximately 15 feet bgs, north of the pipeline intersection.

Photograph 6: Photograph of the excavated area after backfilling and grading activities were completed. Photo taken on February 26, 2007, viewing south.

Appendix D

NMOCD C-138 Soil Disposal Forms (2005 & 2007)

ENVIRONMENTAL PLUS, INC.

Land Farm
PERMIT # NM-01-0013

CERTIFICATE OF WASTE STATUS

"NON - EXEMPT WASTE"

COMPANY EOTT ENERGY LLC

ORIGIN UL-I NE¼ OF THE SE¼ OF SECTION 28
TOWNSHIP: T20S RANGE:R37E

SOURCE DESCRIPTION (PIPELINE, LEASE, BATTERY, FLOWLINE, ETC.)

14"-16" STEEL PIPELINE VACUUM TO JAL 14" MAINLINE #4 2003-00126

AS A CONDITION OF ACCEPTANCE FOR DISPOSAL, I HEREBY CERTIFY THAT THIS WASTE IS A NON-EXEMPT WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) JULY 1988 REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR PART 261 SUBPART C AND HAS NOT BEEN COMINGLED WITH AN EPA 40 CFR PART 261 SUBPART D "LISTED WASTE." LIKEWISE, THIS WASTE DOES NOT CONTAIN NATURALLY OCCURRING RADIOACTIVE MATERIAL (NORM) PURUSANT TO 20 NMAC 3.1 SUBPART 1403 AND CONTAINS NO FREE LIQUID PURSUANT TO THE "PAINT FILTER TEST" EPA METHOD 9095A.

NORM EXPOSURE RATE: 10-13 µR/HR

I, FRANK HERNANDEZ, THE UNDERSIGNED AGENT FOR, EOTT ENERGY LLC, HEREBY CERTIFY THAT, BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT.

NAME FRANK HERNANDEZ
TITLE DISTRICT ENVIRONMENTAL SUPERVISOR
ADDRESS 5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79702

SIGNATURE
DATE 2003-05-16 00:00:00

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator **EOTT Energy LLC**
	5. Originating Site **Vacuum to Jal 14" Mainline #4 2003-00126**
2. Management Facility Destination: South Monument SWDF #NM	6. Transporter Environmental Plus, Inc.
3. Address of Facility Operator: Environmental Plus, Inc.	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	**UL I, NE¼ of the SE¼ of Section 28 T20S R37E**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE _____ TITLE: _____ DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☒ No ☐	4. Generator **Plains Pipeline** 5. Originating Site **Vacuum to Jal 14" #4 Steel Pipeline ref#2003-00126**
2. Management Facility Destination: Plains All American Lea Station Land Farm #GW-351	6. Transporter
3. Address of Facility Operator: Environmental Plus, Inc.	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	**UL- C, NE¼ of the NW¼ of Section 28 T20S R37E**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.
All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

Estimated Volume 300 cy Known Volume (to be entered by the operator at the end of the haul) 3264 cy

SIGNATURE Camille Reynolds TITLE: Environmental Coordinator DATE: 1/16/2007
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Camille Reynolds TELEPHONE NO. 505-441-0965

(This space for State Use)

APPROVED BY: Ed Martin TITLE: Compliance Officer DATE: 1/16/07

APPROVED BY: _____ TITLE: _____ DATE: _____

Appendix E

Analytical Laboratory Reports –

7B15010 February 2007 – Soil Sidewall and Excavation Base Analytical Reports

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Vac to Jal #4

Project Number: 2003-00126

Location: Lea Co., NM

Lab Order Number: 7B15010

Report Date: 02/22/07

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1	7B15010-01	Soil	02/14/07 13:00	02-15-2007 14:30
BH-2	7B15010-02	Soil	02/14/07 13:20	02-15-2007 14:30
BH-3	7B15010-03	Soil	02/14/07 14:00	02-15-2007 14:30
SW-1	7B15010-04	Soil	02/14/07 13:05	02-15-2007 14:30
SW-2	7B15010-05	Soil	02/14/07 13:10	02-15-2007 14:30
SW-3	7B15010-06	Soil	02/14/07 13:15	02-15-2007 14:30
SW-4	7B15010-07	Soil	02/14/07 14:10	02-15-2007 14:30
SW-5	7B15010-08	Soil	02/14/07 14:20	02-15-2007 14:30
SW-6	7B15010-09	Soil	02/14/07 14:40	02-15-2007 14:30
SW-7	7B15010-10	Soil	02/14/07 14:55	02-15-2007 14:30
SW-8	7B15010-11	Soil	02/14/07 15:05	02-15-2007 14:30

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (7B15010-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	**14.5**	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	**59.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**74.2**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
BH-2 (7B15010-02) Soil									
Benzene	**0.00285**	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	**0.0127**	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*192 %*	*75-125*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*140 %*	*75-125*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.6 %*	*70-130*		"	"	"	"	
BH-3 (7B15010-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (7B15010-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
SW-1 (7B15010-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
SW-2 (7B15010-05) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71510	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.6 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-3 (7B15010-06) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
SW-4 (7B15010-07) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	
SW-5 (7B15010-08) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 (7B15010-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
SW-6 (7B15010-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
SW-7 (7B15010-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.2 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-8 (7B15010-11) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (7B15010-01) Soil									
% Moisture	**13.6**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
BH-2 (7B15010-02) Soil									
% Moisture	**9.7**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
BH-3 (7B15010-03) Soil									
% Moisture	**16.5**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-1 (7B15010-04) Soil									
% Moisture	**13.9**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-2 (7B15010-05) Soil									
% Moisture	**14.3**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-3 (7B15010-06) Soil									
% Moisture	**14.4**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-4 (7B15010-07) Soil									
% Moisture	**2.9**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-5 (7B15010-08) Soil									
% Moisture	**9.5**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-6 (7B15010-09) Soil									
% Moisture	**21.3**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-7 (7B15010-10) Soil									
% Moisture	**9.1**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	
SW-8 (7B15010-11) Soil									
% Moisture	**12.0**	0.1	%	1	EB71603	02/16/07	02/16/07	% calculation	

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

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 EB71510 - Solvent Extraction (GC)										
Blank (EB71510-BLK1)				Prepared: 02/15/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*51.7*		*mg kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.7*		"	*50.0*		*105*	*70-130*			
LCS (EB71510-BS1)				Prepared: 02/15/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	558	10.0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	537	10.0	"	500		107	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1090	10.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	*54.6*		*mg kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.1*		"	*50.0*		*106*	*70-130*			
Calibration Check (EB71510-CCV1)				Prepared: 02/15/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	231		mg/kg	250		92.4	80-120			
Carbon Ranges C12-C28	284		"	250		114	80-120			
Total Hydrocarbons	515		"	500		103	80-120			
Surrogate: 1-Chlorooctane	*58.7*		"	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.3*		"	*50.0*		*103*	*70-130*			
Matrix Spike (EB71510-MS1)	**Source: 7B15005-05**			Prepared: 02/15/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	728	10.0	mg/kg dry	592	ND	123	75-125			
Carbon Ranges C12-C28	668	10.0	"	592	37.0	107	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1400	10.0	"	1180	37.0	116	75-125			
Surrogate: 1-Chlorooctane	*55.7*		*mg kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.4*		"	*50.0*		*105*	*70-130*			

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

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 EB71510 - Solvent Extraction (GC)										
Matrix Spike Dup (EB71510-MSD1)	**Source: 7B15005-05**			Prepared: 02/15/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	757	10.0	mg/kg dry	592	ND	128	75-125	3.98	20	M1
Carbon Ranges C12-C28	690	10.0	"	592	37.0	110	75-125	2.76	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1450	10.0	"	1180	37.0	120	75-125	3.39	20	
Surrogate: 1-Chlorooctane	*56.6*		*mg kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.3*		"	*50.0*		*107*	*70-130*			
Batch EB71606 - Solvent Extraction (GC)										
Blank (EB71606-BLK1)				Prepared: 02/16/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*49.1*		*mg kg*	*50.0*		*98.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.0*		"	*50.0*		*104*	*70-130*			
LCS (EB71606-BS1)				Prepared: 02/16/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	522	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	480	10.0	"	500		96.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	*48.3*		*mg kg*	*50.0*		*96.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.9*		"	*50.0*		*97.8*	*70-130*			
Calibration Check (EB71606-CCV1)				Prepared: 02/16/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	219		mg/kg	250		87.6	80-120			
Carbon Ranges C12-C28	269		"	250		108	80-120			
Total Hydrocarbons	488		"	500		97.6	80-120			
Surrogate: 1-Chlorooctane	*54.1*		"	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.6*		"	*50.0*		*97.2*	*70-130*			

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

Project: Vac to Jal #4
Project Number: 2003-00126
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
Batch EB71606 - Solvent Extraction (GC)										
Matrix Spike (EB71606-MS1)	**Source: 7B15010-07**			Prepared: 02/16/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	535	10.0	mg/kg dry	515	ND	104	75-125			
Carbon Ranges C12-C28	496	10.0	"	515	ND	96.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1030	ND	100	75-125			
Surrogate: 1-Chlorooctane	*50.5*		*mg kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
Matrix Spike Dup (EB71606-MSD1)	**Source: 7B15010-07**			Prepared: 02/16/07 Analyzed: 02/18/07						
Carbon Ranges C6-C12	533	10.0	mg/kg dry	515	ND	103	75-125	0.966	20	
Carbon Ranges C12-C28	500	10.0	"	515	ND	97.1	75-125	0.827	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1030	10.0	"	1030	ND	100	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*48.4*		*mg kg*	*50.0*		*96.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.5*		*"*	*50.0*		*95.0*	*70-130*			
Batch EB72006 - EPA 5030C (GC)										
Blank (EB72006-BLK1)				Prepared & Analyzed: 02/20/07						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*53.0*		*ug kg*	*50.0*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*46.3*		*"*	*50.0*		*92.6*	*75-125*			
LCS (EB72006-BS1)				Prepared & Analyzed: 02/20/07						
Benzene	0.0596	0.00100	mg/kg wet	0.0500		119	80-120			
Toluene	0.0578	0.00100	"	0.0500		116	80-120			
Ethylbenzene	0.0559	0.00100	"	0.0500		112	80-120			
Xylene (p/m)	0.113	0.00100	"	0.100		113	80-120			
Xylene (o)	0.0473	0.00100	"	0.0500		94.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*54.9*		*ug kg*	*50.0*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*54.2*		*"*	*50.0*		*108*	*75-125*			

Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

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 EB72006 - EPA 5030C (GC)										
Calibration Check (EB72006-CCV1)				Prepared & Analyzed: 02/20/07						
Benzene	54.7		ug/kg	50.0		109	80-120			
Toluene	50.7		"	50.0		101	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	96.7		"	100		96.7	80-120			
Xylene (o)	41.0		"	50.0		82.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*49.8*		"	*50.0*		*99.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*43.2*		"	*50.0*		*86.4*	*75-125*			
Matrix Spike (EB72006-MS1)		**Source: 7B15010-01**		Prepared & Analyzed: 02/20/07						
Benzene	0.106	0.00200	mg/kg dry	0.116	ND	91.4	80-120			
Toluene	0.0964	0.00200	"	0.116	ND	83.1	80-120			
Ethylbenzene	0.0935	0.00200	"	0.116	ND	80.6	80-120			
Xylene (p/m)	0.201	0.00200	"	0.231	ND	87.0	80-120			
Xylene (o)	0.0895	0.00200	"	0.116	ND	77.2	80-120			M8
Surrogate: a,a,a-Trifluorotoluene	*42.7*		*ug kg*	*50.0*		*85.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*43.9*		"	*50.0*		*87.8*	*75-125*			
Matrix Spike Dup (EB72006-MSD1)		**Source: 7B15010-01**		Prepared & Analyzed: 02/20/07						
Benzene	0.114	0.00200	mg/kg dry	0.116	ND	98.3	80-120	7.27	20	
Toluene	0.104	0.00200	"	0.116	ND	89.7	80-120	7.64	20	
Ethylbenzene	0.102	0.00200	"	0.116	ND	87.9	80-120	8.66	20	
Xylene (p/m)	0.216	0.00200	"	0.231	ND	93.5	80-120	7.20	20	
Xylene (o)	0.0946	0.00200	"	0.116	ND	81.6	80-120	5.54	20	
Surrogate: a,a,a-Trifluorotoluene	*41.4*		*ug kg*	*50.0*		*82.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*41.9*		"	*50.0*		*83.8*	*75-125*			

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

Project: Vac to Jal #4
Project Number: 2003-00126
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB71603 - General Preparation (Prep)										
Blank (EB71603-BLK1)				Prepared & Analyzed: 02/16/07						
% Solids	100		%							
Duplicate (EB71603-DUP1)		**Source: 7B15002-01**		Prepared & Analyzed: 02/16/07						
% Solids	91.6		%		90.8			0.877	20	
Duplicate (EB71603-DUP2)		**Source: 7B15009-01**		Prepared & Analyzed: 02/16/07						
% Solids	89.3		%		88.8			0.561	20	

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Plains All American EH & S	Project: Vac to Jal #4	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2003-00126	
Midland TX. 79706-4476	Project Manager: Camille Reynolds	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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: 2/22/2007

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

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

Environmental Lab of Texas

1 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Chan Patel

Company Name: Premier Environmental

Company Address: 4800 Sugar Grove Blvd. #420

City/State/Zip: Stafford, Texas 7747

Telephone No: 281.240.5200 Fax No: 281.520.5201

Sampler Signature: Shane A.Diller e-mail: cpatel@premiercorp-usa.com

Project Name: Vac to Jal # 4

Project #: 204155

Project Loc: Lea Co. NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 7B1501O

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH 418.1 / 8015M	1005	1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	BH1			14-Feb	1300	1	X									S		X									X				X
02	BH2			14-Feb	1320	1	X									S		X									X				X
03	BH3			14-Feb	1400	1	X									S		X									X				X
04	SW1			14-Feb	1305	1	X									S		X									X				X
05	SW2			14-Feb	1310	1	X									S		X									X				X
06	SW3			14-Feb	1315	1	X									S		X									X				X
07	SW4			14-Feb	1410	1	X									S		X									X				X
08	SW5			14-Feb	1420	1	X									S		X									X				X
09	SW6			14-Feb	1440	1	X									S		X									X				X
10	SW7			14-Feb	1455	1	X									S		X									X				X

Special Instructions: Bill Plains Marketing EMS # 2003-00126
Please Call w/ Verbal 432-230-3344 Damielle: PPM
SHANE

Relinquished by:	Date	Time	Received by:	Date	Time
Shane A. Diller	2-15	230			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				2/15/01	2:30

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
4oz glass
Temperature Upon Receipt: 1.0 °C

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

2 of 2

Project Manager: Chan Patel
Company Name: Premier Environmental
Company Address: 4800 Sugar Grove Blvd. #420
City/State/Zip: Stafford, Texas 7747
Telephone No: 281.240.5200 Fax No: 281.520.5201
Sampler Signature: Shane A.Diller e-mail: cpatel@premiercorp-usa.com

Project Name: Vac to Jal # 4
Project #: 204155
Project Loc: Lea Co. NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 7B5010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	SW8			14-Feb	1505	1	X									S		X							X					X

Special Instructions: Bill Plains Marketing EMS # 2003-00126 Please call Shane w/ Verbal 432.230.3344

Relinquished by:	Date	Time	Received by:	Date	Time
Shane A. Diller	2-15	230			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cindy	2/15/01	2:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sample/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star

402 Glass

Temperature Upon Receipt: 1.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 2/15/01 2:50

Lab ID # : 113150110

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

strict I
25 N. French Dr., Hobbs, NM 88240
strict II
01 W. Grand Avenue, Artesia, NM 88210
strict III
00 Rio Brazos Road, Aztec, NM 87410
strict IV
20 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 March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

ame of Company	Contact
OTT Energy LLC	**Frank Hernandez**
ddress	Telephone No.
O Box 1660 5805 East Highway 80 Midland, Texas 79702	**713.253.7006**
icility Name	Facility Type
acuum to Jal 14" Mainline #4	**14"-16" Steel Pipeline**

rface Owner: **Millard Deck Estate**	Mineral Owner	Lease No.

LOCATION OF RELEASE

it Letter	Section	Township	Range	Feet from the	North South Line	Feet from the	East West Line	County: Lea
28 / I	28	T20S	R37E					Lat. 32 32'36.815"N Lon. 103 14'56.413"W

NATURE OF RELEASE

pe of Release	Volume of Release	Volume Recovered
rude Oil	**15 bbls barrels**	**0.0 bbls barrels**
urce of Release	Date and Hour of Occurrence	Date and Hour of Discovery
"-16" Steel Pipeline	**5-15-03 @ 10:00 AM**	**5-15-03 @ 12:00 PM**
as Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Sylvia Dickie**	
Whom? **t McCasland, EPI**	Date and Hour **5-15-03 @ 2:00 PM**	
as a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

a Watercourse was Impacted, Describe Fully *
\

scribe Cause of Problem and Remedial Action Taken.*
"-16" Steel Pipeline. The cause was either internal or external corrosion. The line was being deoiled at the time of the occurrence. The line was pressured and a line repair clamp installed. Contaminated soil was disposed of in the South Monument Surface WM Facility.

scribe Area Affected and Cleanup Action Taken *
5' x 120' 2,431 sqft ***Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be disposed Remedial Goals: TPH 8015m = 100 mg/Kg. Benzene = 10 mg/Kg. and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and lenes = 50 mg/Kg.***

ereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and gulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger blic 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 ould their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human alth or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any ier federal, state, or local laws and/or regulations.

gnature: _____ Approved by District Supervisor:

nted Name: Frank Hernandez

le: District Environmental Supervisor | Approval Date: | Expiration Date:

te: 2003-05-16 00:00:00 | Phone: 713.253.7006 | Conditions of Approval: | Attached ☐

* Attach Additional Sheets If Necessary

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

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Release Notification and Corrective Action

OPERATOR

Initial Report ☒ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Vacuum to Jal 14" Mainline	Facility Type 14"Steel Pipeline

Surface Owner Millard Deck Estate	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	28	20S	37E					Lea

Latitude 32° 32' 36.8" **Longitude** 103° 14' 56.4"

RP-374

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 15 barrels	Volume Recovered 0 barrels
Source of Release 14" Steel Pipeline	Date and Hour of Occurrence 5/13/03 @ 10:00	Date and Hour of Discovery 5/15/03 @ 12:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sylvia Dickie	
By Whom? Pat McCasland, EPI	Date and Hour 5/15/03 @ 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

MAY 2007
Received
Hobbs
OCD

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken Release form a 14-16 inch steel pipeline was apparently caused by corrosion. The line was being deoiled at the time of the release. The line was depressurized and a line repair clamp was installed. The repair and remediation excavation extended to a depth of eight feet, beyond all visual evidence of impact.

Describe Area Affected and Cleanup Action Taken.* Per the approved NMOCD Plains Marketing Supplemental Investigation Report and Remediation Proposal, the crude oil release site was excavated; the impacted soil was stockpiled on plastic adjacent to the excavation and confirmation soil samples were collected from the floor and sidewalls of the excavation. Once analytical documentation indicated the confirmation soil samples were below NMOCD regulatory standards the excavated/stockpiled soil was transported off-site for disposal/treatment at the Plains Lea Station Landfarm and the excavation was backfilled and contoured to original topography with clean soil.

See attached Premier Environmental Services Soil Closure Report, dated April 2007, for details of remedial activities conducted.

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: Camille Reynolds	OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor: ENVIRO ENGR Johnson
Title: Remediation Coordinator	Approval Date: 5-11-07 Expiration Date: —
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: — Attached ☐
Date: 5/01/07 Phone:505-441-0965	

* Attach Additional Sheets If Necessary