AP - 37

STAGE 2 REPORTS

DATE: 7-30-07

AP 037

PLAINS PIPELINE

RECEIVED
2007 AUG 13 PM 1 48

August 8, 2007

Mr. Wayne Price
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline, L.P. Soils Closure Report
Lovington Deep 6" Release Site
Section 6, Township 17 South, Range 36 East
Lea County, New Mexico
NMOCD Ref.# AP-037

Dear Mr. Price,

Plains Pipeline, L. P. is pleased to submit the attached Soils Closure Report, dated July 30, 2007, for the Lovington Deep 6" release site located in Section 6 of Township 17 South, and Range 36 East of Lea County, New Mexico. This document details site activities conducted to date for soil remediation and soil closure of the site.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosure

AP037

SOILS CLOSURE REPORT
LOVINGTON DEEP 6"
LEA COUNTY, NEW MEXICO
NMOCD REF. # AP-037
SRS # 2002-10312

Section 6, Township 17 South, Range 36 East

Prepared for:

PLAINS PIPELINE, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared by:

Talon/LPE
Marc Stroope
318 E. Taylor St.
Hobbs, New Mexico 88240

Distribution:
Copy 1 – Plains Lovington
Copy 2 – Plains Houston
Copy 3 – NMOCD Santa Fe
Copy 4 – NMOCD Hobbs
Copy 5 – Talon/LPE

July 30, 2007

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806-467-0607
Fax 806-467-0622

AUSTIN
3003 Tom Gary Cove
Building C-100
Round Rock, Texas 78664
Phone 512-989-3428
Fax 512-989-3487

MIDLAND
#9 East Industrial Loop
Midland, Texas 79701
Phone 432-522-2133
Fax 432-522-2180

NEW BRAUNFELS
707 N. Walnut Ave.
Suite 208
New Braunfels,Texas 78130
Phone 210-579-0235
Fax 210-568-2191

TULSA
1439 East 41st Street
Tulsa, OK 74105
Phone 918-742-0871
Fax 918-742-0876

Toll Free: 866-742-0742
www.talonlpe.com

Soils Closure Report
Lovington Deep 6"

Plains Pipeline, L.P.
Houston, Texas

Talon/LPE PROJECT NO. PLAINS046SPL

Prepared by:

Marc Stroope
Senior Project Manager

Kyle Waggoner, P. G.
Senior Project Manager

Talon/LPE
 # 9 E. Industrial Loop
Midland, Texas 79701

July 2007

Distribution List

Name	Title	Company or Agency	Mailing Address	e-mail
Ben Stone	Environmental Engineer	NMOCD	1220 South St. Francis Drive Santa Fe, NM 87505	bstone@state.nm.us
Larry Johnson	Environmental Engineer	NMOCD	1625 French Dr. Hobbs, NM 88231	lwjohnson@state.nm.us
Camille Reynolds	Remediation Coordinator	Plains All American Pipeline	3112 West U.S. Hwy 82 Lovington, NM 88260	cjreynolds@paalp.com
Jeff Dann	Senior Environmental Specialist	Plains All American Pipeline	P. O. Box 4648 Houston, TX 77210-4648	jpdann@paalp.com
File		Talon/LPE	318 East Taylor Street Hobbs, New Mexico 88240	mstroope@talonlpe.com

NMOCD - New Mexico Oil Conservation Division

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Initial C-141 Report
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1.0 INTRODUCTION

1.1 Site Location

The Lovington Deep 6" release site is located approximately 5.8 miles southwest of Lovington in Lea County, New Mexico. The GPS coordinates for the site are 32°52'1.132"N latitude and 103°23'16.570"W longitude. The release occurred on property owned by Darr Angell and is utilized as pasture land. The site is located in a rural area within the West Lovington oil field, with no residences or surface water within a 1,000 foot radius of the release site. A topographic map is provided as Figure 1 in Appendix A.

1.2 Site Background

In December 2002, a release of approximately twenty-five (25) barrels of crude oil, of which ten (10) barrels were recovered, occurred at the site due to corrosion (internal and/or external) of the pipeline. The release occurred from a Link Energy pipeline at this location. Subsequently, Plains Pipeline, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Approximately six thousand (6,000) square feet of surface area was impacted by the release. Initial work at the site was conducted by Environmental Plus, Inc. (EPI). Surficial soil impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment.

1.3 Regulatory Framework

The NMOCD has developed guidance for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for benzene, Total BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH). Based on site visits and a review of aerial photographs, the Lovington Deep 6" site is located in a rural area with no permanent residence or surface water within a 1,000 foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is greater than 1000 feet from the site. Based on groundwater elevation data, the approximate depth to water at the site is 50 feet below ground surface (bgs).

According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, the ranking for this site is twenty (20). The ranking process is summarized below:

Criteria:	Site Condition:	Ranking Score:
Depth to Groundwater	50 feet	20
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	>1,000 feet	0
Total Score:		20

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	**10 ppm**
Total BTEX	**50 ppm**
TPH	**100 ppm**

2.0 PROPOSED FIELD ACTIVITIES

2.1 Stage 1 and Stage 2 Abatement Plan

In August 2004, EPI, on behalf of Plains, submitted the Stage 1 and Stage 2 Abatement Plan (Abatement Plan) to the NMOCD for the continuing investigation and remediation of the Lovington Deep 6" site. According to the Abatement Plan, the highly contaminated/saturated soils near the surface of the release area had been successfully remediated by excavation and disposal or treatment. The Abatement Plan proposed additional soil boring, if deemed appropriate, to further delineate the extent of unsaturated soils. Because the groundwater at the release site was impacted, a total of five monitor wells were installed at the site. It was proposed in the Abatement Plan that quarterly groundwater monitoring be conducted until four consecutive quarters of monitor well data showed concentrations below groundwater regulatory limits. Based on information collected during the preliminary soil delineation phase of the project, the Abatement Plan proposed the isolation of the remaining crude oil source by installing an engineered and tested clay barrier.

2.2 November 2005 E-mail Correspondence

On November 17, 2005, Plains sent an e-mail communication to Ed Martin with the NMOCD, in which Plains requested changes to the Abatement Plan. These changes included the request to install a 20 mil synthetic liner in place of the clay barrier as proposed in the Abatement Plan. The e-mail communication also proposed the sectioning of the stockpiled soil into 1,000 cubic yard grids and the collection of a five point composite sample of each grid.

On November 22, 2005, Mr. Martin approved the request submitted by Plains (reference Appendix E). Subsequently, on March 30, 2006, Mr. Darr Angell, the landowner, approved the changes made to the Abatement Plan.

3.0 FIELD ACTIVITIES

The following sections present a summary of the investigation and remediation activities conducted at the Lovington Deep 6" site, in accordance with the NMOCD approved Abatement Plan and November 2005 e-mail correspondence. The focus of the investigation was the excavation and remediation of hydrocarbon impacted soils exceeding applicable NMOCD delineation/remediation limits.

3.1 Soil Investigation Activities

In 2003, EPI commenced excavating the impacted soil. EPI removed soil to approximately 3 feet bgs at the source area, generating approximately 1,102 cubic yards of material which was disposed of in the NMOCD approved and permitted South Monument Surface Waste Management Facility. Additional excavation removed approximately 10,500 cubic yards of soil

to a depth of approximately 3 feet bgs in the flow path and approximately 10 feet bgs near the leak origin. This soil was processed through a soil shredder to separate rocks from landfarmable soil and to promote natural attenuation by aeration and volatilization. Upon completion of excavation activities, a composite sample from the excavation bottom (BHC), a grab sample from the bottom hole point of release (BHPOR), and sidewall samples from the north (SELD612003NSW), south (SELD612003SSW), east (SELD612003ESW), and west (SELD612003WSW) sidewalls were collected on January 20, 2003. Based on these analytical results, additional excavation was performed on the sidewalls. After the completion of over-excavation activities, confirmation samples were collected from the north (SELD6030703NSW), south (SELD6030703SSW), east (SELD6030703ESW) and west (SELD6030703WSW) sidewalls on March 7, 2003 (reference Figure 2).

3.2 Analytical Procedures

The soil samples were placed in laboratory prepared glassware and sealed with custody tape. The samples were placed in coolers and relinquished to AnalySys Inc. in Austin, Texas for analysis. The soil samples were analyzed for BTEX using EPA method 8260B and TPH by EPA method 8015. The chain-of-custody forms and laboratory data sheets are provided in Appendix C.

3.3 Soil Sampling Results

The composite sample from the excavation bottom (BHC) collected on January 20, 2003 demonstrates that the bottom hole excavation area is below NMOCD remedial threshold limits for benzene, Total BTEX and TPH. The bottom hole point of release grab sample (BHPOR) collected on January 20, 2003 demonstrates that the bottom hole point of release area exceeds NMOCD remedial threshold limits for Total BTEX (257 mg/Kg) and TPH (8,380 mg/Kg) as referenced in Table 1. Similarly, the north (SELD612003NSW), south (SELD612003SSW), east (SELD612003ESW), and west (SELD612003WSW) sidewall samples collected on January 20, 2003 exhibited TPH concentrations exceeding NMOCD remedial threshold limits with concentrations of 1,490 mg/Kg, 4,745 mg/Kg, 370 mg/Kg, and 6,660 mg/Kg respectively (reference Table 1). The sidewall confirmation sample results from March 7, 2003 demonstrate that subsequent to over-excavation, all sidewall areas (SELD6030703NSW, SELD6030703SSW, SELD6030703ESW, and SELD6030703WSW) are below NMOCD remedial threshold limits for benzene, Total BTEX and TPH (reference Table 1).

3.4 Soil Remediation Activities

Once it was demonstrated that the sidewall areas were below NMOCD remedial threshold limits, per the NMOCD as approved in the November 22, 2005 e-mail communication, a 20 mil synthetic liner was installed at a depth of 9 feet bgs on the floor of the excavation area. A six inch protective layer of sand was placed above and below the synthetic liner to protect it from rips and tears. The 10,500 cubic yards of stockpiled soil which were previously processed through a shredder to separate rock from soil were tested in 1,000 cubic yard five point composite increments to ensure that the soil exhibited VOC headspace readings of <100.0 ppm. Based on VOC headspace readings of <100.0 ppm, the impacted soil was deemed acceptable under the NMOCD-approved revised Abatement Plan and was placed in the excavation area as

backfill (reference Table 2).

3.5 Site Restoration Activities

Subsequent to soil remediation, the excavation site was backfilled with the PID screened stockpile soil and rock which exhibited VOC headspace readings of <100.0 ppm. An additional 600 cubic yards of non-impacted topsoil was transported to the site to bring the site to natural grade. A backhoe, bulldozer and loader were utilized to restore the site to natural grade. The site will be revegetated with grasses acceptable to the landowner.

4.0 CONCLUSIONS

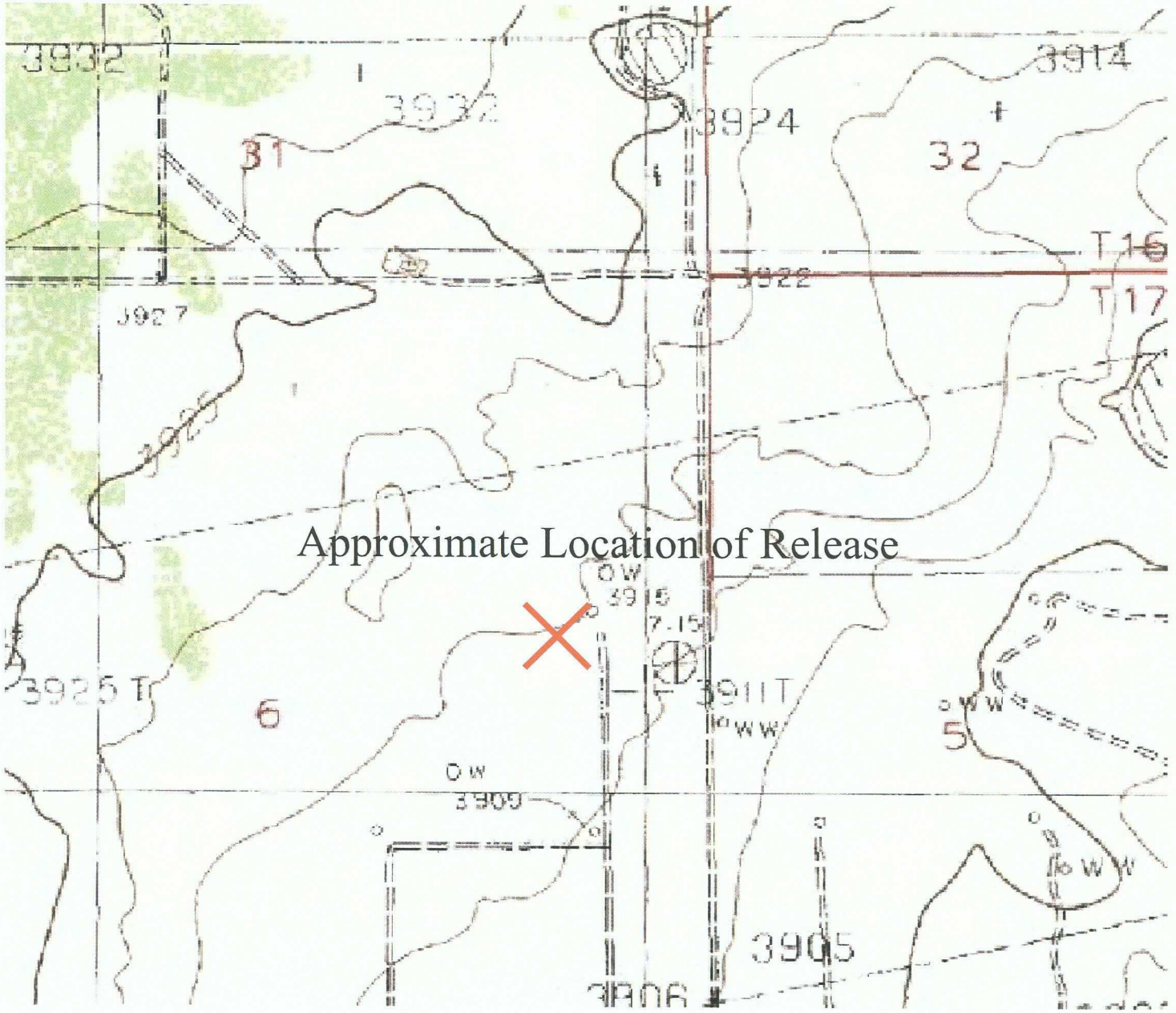
4.1 Recommendations

Based upon the findings of this investigation, Talon/LPE makes no further recommendations for future remediation activities in regard to the soil related to this release. Talon/LPE proposes that this report be the final action in regards to the soil investigation and remediation activities at the site and recommends that Plains submit a copy of this report to the NMOCD. Talon/LPE requests that this report be the final document and action in regard to soil activities related to this release and that the NMOCD issue a letter to Plains requiring no further action. In addition, Talon/LPE recommends that Plains continue with product recovery and groundwater monitoring efforts.

Appendix A

Drawings

Figure 1 – Topographic Map
Figure 2 – Site Map With Confirmation Sampling Locations



N

0 250 500

Scale in Feet

TALON LPE

Date:	05/07/2007
Scale:	1" = 500'
Drawn By:	WDR

Lovington Deep 6" (#2002-10312)
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E
Lea County, New Mexico
Figure 1 - Topographic Map - Lovington SW - 1985

Date:	06/05/2007
Scale:	1" = 80'
Drawn By:	WDR

Lovington Deep 6" (#2002-10312)

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E

Lea County, New Mexico

Figure 2 - Site Map with Confirmation Sampling Locations

APPENDIX B

Tables

Table 1 – Summary of Soil Analytical Data
Table 2 – Summary of Stockpile PID Readings

TALONLPE

Table 1
Summary of Soil Analytical Data
Plains Pipeline, L.P.
Lovington Deep 6"
Lea County, NM SRS# 2002-10312
Talon/LPE Project Number PLAINS046SPL

Sample Designation	Date Sampled	Concentration					
		mg/Kg	mg/Kg				
		Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
SELD612003WSW	01/20/03	**6,660**	0.0752	1.210	1.010	6.120	8.4152
SELD612003ESW	01/20/03	**370**	<0.020	<0.020	<0.020	0.0388	0.0388
SELD612003NSW	01/20/03	**1,490**	<0.020	0.145	0.162	0.703	1.010
SELD612003SSW	01/20/03	**4,745**	<0.020	<0.020	<0.020	0.0805	0.0805
SELD612003BHC	01/20/03	19.6	<0.020	<0.020	<0.020	<0.020	<0.020
SELD612003BHPOR	01/20/03	**8,380**	2.690	69.600	39.700	145	**257**
SELD6030703WSW	03/07/03	<5	<0.020	0.0241	<0.020	<0.020	0.0241
SELD6030703ESW	03/07/03	<5	<0.020	<0.020	<0.020	<0.020	<0.020
SELD6030703NSW	03/07/03	<5	<0.020	<0.020	<0.020	<0.020	<0.020
SELD6030703SSW	03/07/03	<5	<0.020	<0.020	<0.020	<0.020	<0.020
NMOCD Remediation Guildelines		100	10				50

Bolded *values are in excess of the NMOCD Remediation Thresholds*

TALONLPE

Table 2
Summary of Stockpile PID Readings
Plains Pipeline, L.P.
Lovington Deep 6"
Lea County, NM SRS# 2002-10312
Talon/LPE Project Number PLAINS046SPL

Sample Point	Date Sampled	Sampling Interval (ft bgs)	PID Readings (ppm)
SP-1-1	3/28/2006	1	1.5
		2	24.5
		3	18.9
		4	11.6
		5	0.9
SP-1-2	3/28/2006	1	0.0
		2	0.0
		3	0.0
		4	1.4
		5	0.2
SP-1-3	3/28/2006	1	15.3
		2	9.0
		3	6.4
		4	10.9
		5	1.3
SP-1-4	3/28/2006	1	7.9
		2	0.9
		3	0.6
		4	0.5
		5	0.3
SP-1-5	3/28/2006	1	14.3
		2	11.3
		3	4.0
		4	2.3
		5	0.8
SP-2-1	3/28/2006	1	1.8
		2	0.8
		3	0.6
		4	0.5
		5	2.7

TALONLPE

Table 2
Summary of Stockpile PID Readings
Plains Pipeline, L.P.
Lovington Deep 6"
Lea County, NM SRS# 2002-10312
Talon/LPE Project Number PLAINS046SPL

Sample Point	Date Sampled	Sampling Interval (ft bgs)	PID Readings (ppm)
SP-2-2	3/28/2006	1	33.8
		2	17.1
		3	2.7
		4	2.1
		5	0.8
SP-2-3	3/28/2006	1	13.2
		2	2.2
		3	1.5
		4	0.6
		5	0.4
SP-2-4	3/28/2006	1	12.6
		2	12.4
		3	7.3
		4	13.5
		5	3.0
SP-2-5	3/28/2006	1	36.7
		2	19.0
		3	14.0
		4	21.8
		5	2.4
SP-3-1	3/28/2006	1	21.4
		2	2.3
		3	0.8
		4	0.5
		5	0.5
SP-3-2	3/28/2006	1	12.0
		2	2.2
		3	3.7
		4	1.3
		5	0.6

TALONLPE

Table 2
Summary of Stockpile PID Readings
Plains Pipeline, L.P.
Lovington Deep 6"
Lea County, NM SRS# 2002-10312
Talon/LPE Project Number PLAINS046SPL

Sample Point	Date Sampled	Sampling Interval (ft bgs)	PID Readings (ppm)
SP-3-3	3/28/2006	1	6.0
		2	11.2
		3	6.5
		4	3.3
		5	1.6
SP-3-4	3/28/2006	1	5.2
		2	1.1
		3	2.9
		4	0.3
		5	0.5
SP-3-5	3/28/2006	1	13.3
		2	7.4
		3	4.6
		4	8.1
		5	9.4
NMOCD Remediation Guildelines			100

APPENDIX C

Laboratory Analytical Data Sheets and Chain of Custody Documentation

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138509 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003WSW
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**5920**	mg/Kg	50	<50	01/23/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**740**	mg/Kg	50	<50	01/23/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/23/03	8260b	---	---	---	---	---
Benzene	**75.2**	µg/Kg	20	<20	01/23/03	8260b	---	1.3	91.5	82.5	89
Ethylbenzene	**1010**	µg/Kg	20	<20	01/23/03	8260b	---	0.7	95	99.3	97.3
m,p-Xylenes	**4270**	µg/Kg	20	<20	01/23/03	8260b	---	0.7	95.5	98.4	98.1
o-Xylene	**1850**	µg/Kg	20	<20	01/23/03	8260b	---	1.1	95.6	97.5	99.7
Toluene	**1210**	µg/Kg	20	<20	01/23/03	8260b	---	1.5	95.1	80.8	91.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10384 Lovington Deep 6" **Sample Name:** SELD612003WSW	**Report#/Lab ID#:** 138509 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	**none/diluted**	diluted @ 5X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	93.9	65-115	---
Toluene-d8	8260b	108	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 138509 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003WSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Nitrobenzene-d5	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
Nitrobenzene-d5	D	levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
p-Terphenyl	D	levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138510 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003ESW
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**364**	mg/Kg	5	<5	01/22/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**6.47**	mg/Kg	5	<5	01/22/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/24/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/24/03	8260b	J	0.1	96.8	104.5	103
Ethylbenzene	<20	µg/Kg	20	<20	01/24/03	8260b	J	1.3	121.8	115.2	125.6
m,p-Xylenes	**38.8**	µg/Kg	20	<20	01/24/03	8260b	---	0.8	119.2	112.7	119
o-Xylene	<20	µg/Kg	20	<20	01/24/03	8260b	J	0.2	117.9	117	121
Toluene	<20	µg/Kg	20	<20	01/24/03	8260b	J	1.3	106.1	110.7	109.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10384 Lovington Deep 6" **Sample Name:** SELD612003ESW	**Report#/Lab ID#:** 138510 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	62.1	50-150	---
p-Terphenyl	8015 mod.	71.2	50-150	---
1,2-Dichloroethane-d4	8260b	91.9	65-115	---
Toluene-d8	8260b	110	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 138510 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003ESW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138511 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003NSW
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**1090**	mg/Kg	5	<5	01/22/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**400**	mg/Kg	5	<5	01/22/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/23/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/23/03	8260b	J	1.3	91.5	82.5	89
Ethylbenzene	**162**	µg/Kg	20	<20	01/23/03	8260b	---	0.7	95	99.3	97.3
m,p-Xylenes	**447**	µg/Kg	20	<20	01/23/03	8260b	---	0.7	95.5	98.4	98.1
o-Xylene	**256**	µg/Kg	20	<20	01/23/03	8260b	---	1.1	95.6	97.5	99.7
Toluene	**145**	µg/Kg	20	<20	01/23/03	8260b	---	1.5	95.1	80.8	91.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10384 Lovington Deep 6" **Sample Name:** SELD612003NSW	**Report#/Lab ID#:** 138511 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	85	50-150	---
p-Terphenyl	8015 mod.	51.7	50-150	---
1,2-Dichloroethane-d4	8260b	89	65-115	---
Toluene-d8	8260b	103	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 138511 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003NSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138512 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003SSW
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**4310**	mg/Kg	50	<50	01/23/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**435**	mg/Kg	5	<5	01/22/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/22/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/22/03	8260b	---	1.3	91.5	82.5	89
Ethylbenzene	<20	µg/Kg	20	<20	01/22/03	8260b	---	0.7	95	99.3	97.3
m,p-Xylenes	**42.7**	µg/Kg	20	<20	01/22/03	8260b	---	0.7	95.5	98.4	98.1
o-Xylene	**37.8**	µg/Kg	20	<20	01/22/03	8260b	---	1.1	95.6	97.5	99.7
Toluene	<20	µg/Kg	20	<20	01/22/03	8260b	J	1.5	95.1	80.8	91.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10384 Lovington Deep 6" **Sample Name:** SELD612003SSW	**Report#/Lab ID#:** 138512 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.3	50-150	---
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	88.9	65-115	---
Toluene-d8	8260b	103	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 138512 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003SSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138513 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003BHC
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**19.6**	mg/Kg	5	<5	01/23/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/23/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/22/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/22/03	8260b	---	1.3	91.5	82.5	89
Ethylbenzene	<20	µg/Kg	20	<20	01/22/03	8260b	---	0.7	95	99.3	97.3
m,p-Xylenes	<20	µg/Kg	20	<20	01/22/03	8260b	---	0.7	95.5	98.4	98.1
o-Xylene	<20	µg/Kg	20	<20	01/22/03	8260b	---	1.1	95.6	97.5	99.7
Toluene	<20	µg/Kg	20	<20	01/22/03	8260b	---	1.5	95.1	80.8	91.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10384 Lovington Deep 6" **Sample Name:** SELD612003BHC	**Report#/Lab ID#:** 138513 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	68.2	50-150	---
p-Terphenyl	8015 mod.	68.6	50-150	---
1,2-Dichloroethane-d4	8260b	92.3	65-115	---
Toluene-d8	8260b	105	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 138514 **Report Date:** 01/27/03
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003BHPOR
Sample Matrix: soil
Date Received: 01/21/2003 **Time:** 09:50
Date Sampled: 01/20/2003 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**4310**	mg/Kg	50	<50	01/23/03	8015 mod.	---	19	123.3	95.6	95
TPH by GC (as diesel-ext)	---	---	---	---	01/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**4070**	mg/Kg	50	<50	01/23/03	8015 mod.	---	15.3	122.8	88.5	109.8
Volatile organics-8260b/BTEX	---		---		01/22/03	8260b	---	---	---	---	---
Benzene	**2690**	µg/Kg	100	<100	01/23/03	8260b	---	1.3	91.5	82.5	89
Ethylbenzene	**39700**	µg/Kg	5000	<5000	01/22/03	8260b	---	0.7	95	99.3	97.3
m,p-Xylenes	**105000**	µg/Kg	5000	<5000	01/22/03	8260b	---	0.7	95.5	98.4	98.1
o-Xylene	**40000**	µg/Kg	5000	<5000	01/22/03	8260b	---	1.1	95.6	97.5	99.7
Toluene	**69600**	µg/Kg	5000	<5000	01/22/03	8260b	---	1.5	95.1	80.8	91.4

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Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10384 Lovington Deep 6"	**Report#/Lab ID#:** 138514
Attn: Pat McCasland	**Sample Name:** SELD612003BHPOR	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	**none/diluted**	diluted @ 5X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	105	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 138514 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10384 Lovington Deep 6"
Sample Name: SELD612003BHPOR

Sample Temperature/Condition <=6°C

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Sample Bottles & Preservation

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

4444

CHAIN-OF-CUSTODY

Send Reports To:

Environmental Plus Inc.
PO Box 1558
Eunice NM 88231
Attn: Pat McCasland
Phone (505)-394-3481 Fax (505)-394--2601
enviplus1@aol.com cmmg142@aol.com

Bill to (if different):

E.O.T.T. Energy
PO Box 1660
Midland TX 79702
Attn. Frank Hernandez

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone: (512) 444-5896
Fax: (512) 447-4766

Rush Status (must be confirmed with lab mgr.): _____

Project Name/PO#: 2002-10384 Sampler: _Cody Miller ✓ Cody Miller

Lovington Deep 6"

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015 BEX	Comments
SELD612003WSW	1-20-03	0810	1	X			138509	✓	
SELD612003ESW	1-20-03	0830	1	X			138510	✓	
SELD612003NSW	1-20-03	0900	1	X			138511	✓	
SELD612003SSW	1-20-03	0930	1	X			138512	✓	
SELD612003BHC	1-20-03	1000	1	X			138513	✓	
SELD612003BHPOR	1-20-03	1030	1	X			138514	✓	

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 5.9°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
✓ Cody Miller	ENVIRONMENTAL PLUS	1-20-03		Melanie Humphrey	ASI	1/21/03	0950

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 140347 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703WSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	J	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/15/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/03	8260b	---	5.2	97	95.9	100.4
Ethylbenzene	<20	µg/Kg	20	<20	03/15/03	8260b	J	1.9	100.6	100.1	101.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/03	8260b	J	4.3	95.3	91.9	95.7
o-Xylene	<20	µg/Kg	20	<20	03/15/03	8260b	---	4.1	101.1	98.3	101.2
Toluene	**24.1**	µg/Kg	20	<20	03/15/03	8260b	---	0.4	86.2	89.6	93.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312	**Report#/Lab ID#:** 140347
Attn: Pat McCasland	**Sample Name:** SELD6030703WSW	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	65.8	50-150	---
1,2-Dichloroethane-d4	8260b	106	65-115	---
Toluene-d8	8260b	119	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 140347 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703WSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 140348 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703ESW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312	**Report#/Lab ID#:** 140348
Attn: Pat McCasland	**Sample Name:** SELD6030703ESW	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	77	50-150	---
p-Terphenyl	8015 mod.	72.9	50-150	---
1,2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	111	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 140348 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: *2002-10312*
Sample Name: SELD6030703ESW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 140349 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703NSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

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Richard Laster

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ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312	**Report#/Lab ID#:** 140349
Attn: Pat McCasland	**Sample Name:** SELD6030703NSW	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	90.4	50-150	---
p-Terphenyl	8015 mod.	76.4	50-150	---
1,2-Dichloroethane-d4	8260b	109	65-115	---
Toluene-d8	8260b	117	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 140349 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: *2002-10312*
Sample Name: SELD6030703NSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 140350 **Report Date:** 03/26/03
Project ID: 2002-10312
Sample Name: SELD6030703SSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 **Sample Name:** SELD6030703SSW	**Report#/Lab ID#:** 140350 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	101	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	109	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 140350 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703SSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

AnalySys INC. 5474
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Repor. To:
Company Name ENVIRONMENTAL PLUS INC
Address P.O. Box 1558
City EUNICE State NM Zip 88231
ATTN: PAT MCCASLAND
Phone 505 394-3481 Fax 505 394-2601

Bill to (if differ):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2002-10312 Sampler: CONRAD FALCON

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	TPH 8015 Mod. GC								Comments
SELD6030703WSW	3-7-03	11:35	1	✓			140347	X	X								
SELD6030703 ESW	3-7-03	11:40	1	✓			140348	X	X								
SELD6030703 NSW	3-7-03	11:45	1	✓			140349	X	X								
SELD6030703 SSW	3-7-03	11:50	1	✓			140350	X	X								

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T = 5.2° C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Conrad Falcon	EPI	3-10-03	0700	Melanie Humphrey	ASI	3/12/03	0900

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

APPENDIX D

Photograph Documentation

TALON/LPE

Client: Plains All American
Location: Lovington Deep 6"
Lea County, New Mexico

Photographic Documentation

Prepared by: Marc Stroope
Photographer: EPI/Marc Stroope
Project Number: PLAINS046SPL

Photograph No. 1

Direction: North

Description: View of release point.

Photograph No. 2

Direction: West

Description: View of excavation.

Photograph No. 3

Direction: Northeast

Description: View of excavation.

Photograph No. 4

Direction: Southeast

Description:
View of excavation.

Photograph No. 5

Direction: Northeast

Description: View of backfill and site restoration.

Photograph No. 6

Direction: Southeast

Description:
View of backfill and site restoration.

Photograph No. 7

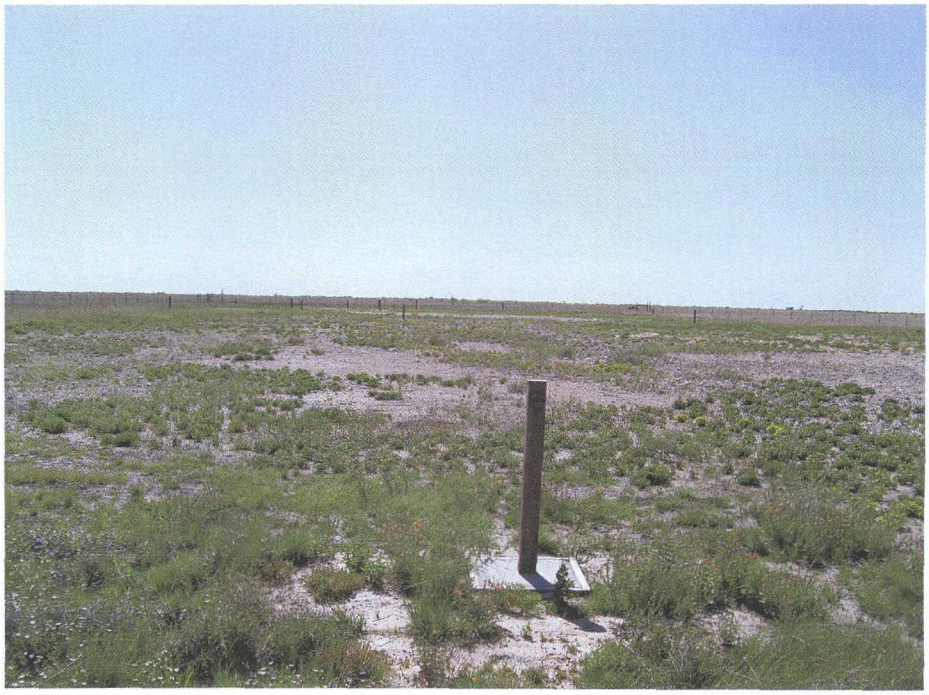
Direction: Northwest

Description: View of backfill and site restoration.

Photograph No. 8

Direction: Southwest

Description:
View of backfill and site restoration.



APPENDIX E

November 2005 E-mail Correspondence

Camille J Reynolds

From: Martin, Ed, EMNRD [ed.martin@state.nm.us]
Sent: Tuesday, November 22, 2005 4:05 PM
To: Camille J Reynolds
Subject: RE: Lovington Deep 6 Inch Release Site

The request outlined below is approved.

New Mexico Oil Conservation Division approval does not relieve Plains of liability should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other local, state, or federal governmental agency.

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: 505-476-3492
Fax: 505-476-3462
email: ed.martin@state.nm.us

-----Original Message-----
From: Camille J Reynolds [mailto:cjreynolds@paalp.com]
Sent: Thursday, November 17, 2005 7:31 AM
To: Martin, Ed, EMNRD
Subject: Lovington Deep 6 Inch Release Site

Mr. Martin:

This e-mail is a follow-up to our phone conversation concerning remediation activities to be conducted at the Plains release site known as Lovington Deep 6 located in Sec. 6, T17S, R36E, NMOCD reference # AP-037.

In the Stage 1 and 2 Abatement Plan and the Soil Closure Plan submitted by EPI on behalf of Plains, it is recommended that a clay barrier be installed in the floor of the excavation and another clay barrier be installed at approximately 2-4 feet bgs if necessary based on SPLP analytical results.
With your approval, Plains is requesting that the barrier installed in the floor of the excavation be modified to a 20 mil synthetic liner as opposed
to the clay barrier initially proposed.

The Abatement plan also states that the excavated, stockpiled soil will be spread out in 6 inch lifts and sampled prior to backfilling. Due to time constraints and limitations on the available working area, Plains is proposing to grid the stockpiled soil in 1,000 cubic yard grids and collect a 5 point composite sample of each grid.

Thank you for time and consideration in this matter. If you have any questions or concerns please contact me at 505-441-0965.

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

office: 505/396-3341

fax: 505/396-2754
cellular: 505/441-0965

APPENDIX F

NMOCD C-141 Reports

Initial C-141 Report
Final C-141 Report

PLAINS ALL AMERICAN

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 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 ☒ Initial Report ☐ Final Report

Name of Company: EOTT Energy Pipeline	**Contact:** Frank Hernandez
Address: P.O. Box 1660, Midland, TX 79703	**Telephone No.:** 915.638.3799
Facility Name: Lovington Deep 6"	**Facility Type:** Crude Oil Pipeline

Surface Owner: Darr Angell	**Mineral Owner:**	**Lease No.:**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	
H	6	17S	36E					**County:** Lea **Lat.:** 32°52'1.132"N **Lon:** 103°23'16.570"W

NATURE OF RELEASE

Type of Release: Crude Oil	**Volume of Release:** 25 bbls	**Volume Recovered:** 10 bbls
Source of Release: 6" steel pipeline	**Date and Hour of Occurrence:** 12-12-02 8:00 AM	**Date and Hour of Discovery:** 12-12-02 10:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Paul Sheeley and Sylvia Dickie, Hobbs NMOCD (left messages) Confirmed with Sylvia Dickie at 11:45 AM 12-12-02	
By Whom? Pat McCasland (Environmental Plus, Inc.)	**Date and Hour:** NMOCD notified on 12-12-02 10:30 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.** NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.* The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier. Disposing at South Monument SWF

Describe Area Affected and Cleanup Action Taken.* Spill Area = ~6,000 ft^2 Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated.

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: Frank Hernandez	**OIL CONSERVATION DIVISION**	
Printed Name: Frank Hernandez	**Approved by District Supervisor:**	
Title: District Environmental Supervisor	**Approval Date:**	**Expiration Date:**
Date: December 12, 2002 **Phone:** 915.638.3799	**Conditions of Approval:**	**Attached** ☐

* Attach Additional Sheets If Necessary

PLAINS ALL AMERICAN

EOTT Energy Pipeline Site Information and Metrics	**Incident Date and NMOCD Notified?:** Discovered 12-12-02 NMOCD verbally notified on 12-12-02
SITE: Lovington Deep 6"	**Assigned Site Reference #:** 2002-10312
Company: EOTT Energy Pipeline	
Street Address: 5805 East Highway 80	
Mailing Address: P.O. Box 1660	
City, State, Zip: Midland, Texas 79703	
Representative: Frank Hernandez, District Environmental Supervisor	
Representative Telephone: 915.638.3799	
Telephone:	
Fluid volume released (bbls): 25 bbls	**Recovered (bbls):** 10
>25 bbls : Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: Lovington Deep 6"	
Source of contamination: 6" Steel Crude Oil Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: Darr Angell	
LSP Dimensions: 140' X 75'	
LSP Area: Spill Area ~6,000 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: 32° 52' 1.132"N	
Longitude: 103° 23' 16.570"W	
Elevation above mean sea level: ~3,918 'amsl	
Feet from South Section Line:	
Feet from West Section Line:	
Location- Unit or ¼¼: UL-H SE ¼ of the NE ¼	
Location- Section: 6	
Location- Township: 17S	
Location- Range: 36E	
Surface water body within 1000 ' radius of site: None	
Domestic water wells within 1000' radius of site: None	
Agricultural water wells within 1000' radius of site: None	
Public water supply wells within 1000' radius of site: None	
Depth from land surface to ground water (DG): ~50.0 feet	
Depth of contamination (DC): ?	
Depth to ground water (DG – DC = DtGW): <50 feet	

1. Ground Water	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*
Ground water Score = 20	***Wellhead Protection Area Score= 0***	***Surface Water Score= 0***

Site Rank (1+2+3) = 20

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19 (Surface to 50.0'bgs)	10-19	0-9
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

PLAINS ALL AMERICAN

District I
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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 ☐ Initial Report ☒ Final Report

RP-1274

Name of Company: Plains All American Pipeline, L.P. (formerly Link Energy and EOTT)	**Contact:** Camille Reynolds
Address: 3112 W. US Hwy 82, Lovington, NM 88260	**Telephone No.:** 505.441.0965
Facility Name: Lovington Deep 6"	**Facility Type:** Crude Oil Pipeline

Surface Owner: Darr Angell	**Mineral Owner:**	**Lease No.:**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	
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Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.** NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.* The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier. Disposing at South Monument SWF

Describe Area Affected and Cleanup Action Taken.* The crude oil release was excavated: impacted soil was placed adjacent to the excavation, confirmation soil samples were collected form the floor & walls of the excavation. Once confirmation samples were below NMOCD regulatory standards, a 20 mil synthetic liner was installed on the floor of the excavation area, 10,500 cubic yards of stockpiled soil previously processed through a shredder was placed in the excavation area once the impacted soil was deemed acceptable under the NMMOCD-approved VOC readings of <100.0 ppm, the site was restored to natural grade.

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:**
Date: July 30, 2007 **Phone:** 505.441.0965	**Conditions of Approval:**	**Attached** ☐

* Attach Additional Sheets If Necessary

EOTT Energy Pipeline Site Information and Metrics	**Incident Date and NMOCD Notified?:** Discovered 12-12-02 NMOCD verbally notified on 12-12-02
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Leak, Spill, or Pit (LSP) Name: Lovington Deep 6"	
Source of contamination: 6" Steel Crude Oil Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: Darr Angell	
LSP Dimensions: 140' X 75'	
LSP Area: Spill Area ~6,000 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: 32° 52' 1.132"N	
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Elevation above mean sea level: ~3,918 'amsl	
Feet from South Section Line:	
Feet from West Section Line:	
Location- Unit or ¼¼: UL-H SE ¼ of the NE ¼	
Location- Section: 6	
Location- Township: 17S	
Location- Range: 36E	
Surface water body within 1000 ' radius of site: None	
Domestic water wells within 1000' radius of site: None	
Agricultural water wells within 1000' radius of site: None	
Public water supply wells within 1000' radius of site: None	
Depth from land surface to ground water (DG): ~50.0 feet	
Depth of contamination (DC): ?	
Depth to ground water (DG – DC = DtGW): <50 feet	

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