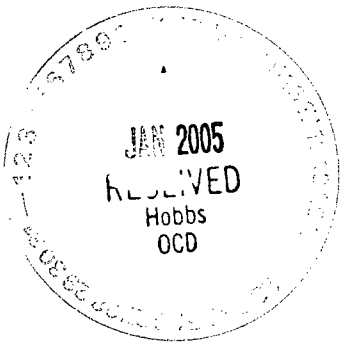
ENVIRONMENTAL PLUS, INC. Micro-Blaze Micro-Blaze Oil™
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES



December 30, 2004

Mr. Larry Johnson
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French
Hobbs, New Mexico 88240

Subject: Plains All American Pipeline Final NMOCD form C-141 and closure documentation

Re: Central Battery 6" Line #1, #2003-00007
UL-P (SE¼ of the SE¼) of Section 32, T19S, R37E
Latitude 32°36'34.88"N and Longitude 103°15'55.63"W
Landowner: New Mexico State Highway Department
Driving Directions: From the intersection of NMSR 8 and NMSR 322 in Monument NM, go south on NMSR 8 1.0 miles to the work location along the highway right of way.

Dear Mr. Johnson,

Environmental Plus, Inc. (EPI), on behalf of Plains All American Pipeline, submits the attached New Mexico Oil Conservation Division (NMOCD) final form C-141 and closure documentation for the above referenced leak site requesting that "no further remedial action" be required.

Should there be any questions please call Mr. Cody Miller or myself at the office or at 505.631.8447 and 505.390.7864, respectively or Camille Reynolds at 505.393.5611. All official communication should be addressed to:

Camille Reynolds
Plains All American Pipeline
PO Box 1660
5805 East Highway 80
Midland, Texas 79702
e-mail: CJReynolds@paalp.com

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Camille Reynolds, Plains All American Pipeline, w/enclosure (CJReynolds@paalp.com)
Jeff Dann, Plains All American Pipeline, w/enclosure (JPDann@paalp.com)
Cody Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

ENVIRONMENTAL PLUS, INC.

P.O. BOX 1558 ••• 2100 WEST AVE. O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 505•394•3481 FAX 505•394•2601

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **Plains All American Pipeline**	Contact: **Camille Reynolds**
Address **PO Box 1660 5805 East Highway 80 Midland, Texas 79702**	Telephone No. **505.393.5611**
Facility Name **Central Battery 6" Line #1 ##2003-00007**	Facility Type **6" Steel Pipeline**
Surface Owner: **New Mexico State Highway Department**	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: Lea
P	**32**	**T19S**	**R37E**					

Latitude: 32°36'34.88"N Longitude: 103°15'55.63"W

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **150 barrels**	Volume Recovered **85 barrels**
Source of Release **6" Steel Pipeline**	Date and Hour of Occurrence **1-09-03 at 7:00 AM**	Date and Hour of Discovery **1-09-03 at 9:00 AM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? **Pat McCasland (EPI)**	Date and Hour **1-09-03 at 9:50 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.*__*6" Steel Pipeline*__ **-The cause of the leak was internal/external corrosion. 2,310 cubic yards of crude oil impacted soil was excavated and disposed of in the NMOCD permitted and approved C&C Landfarm.**

Describe Area Affected and Cleanup Action Taken.*__*6,238 sqft. 322' north to south and 20' east to west: On January 29, 2003, three soil borings were advanced and sampled. To ensure groundwater had not been impacted a temporary 4" PVC cased monitor well was installed and sampled. All soil impacted above the NMOCD remedial goals, i.e., 2,310 cubic yards was disposed of. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.*

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: for C. Reynolds	**OIL CONSERVATION DIVISION**	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@paalp.com	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: December 30, 2004 Phone: 505.393.5611		

* Attach Additional Sheets If Necessary

PLAINS
ALL AMERICAN
PIPELINE, L.P.

SITE DELINEATION, SOIL REMEDIATION, CLOSURE DOCUMENTATION, AND FINAL C-141

IRP-46
9.15.05

Central Battery 6" Line #1
Ref. #2003-00007

UL-P (SE¼ of the SE¼) of Section 32, R37E, T19S
Latitude 32°36'34.88"N and Longitude 103°15'55.63"W
Elevation ~3,560 'amsl

1-mile south of Monument, Lea County, New Mexico

Date

November 2004

Prepared by

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601

STANDARD OF CARE

Environmental Assessment and Remediation Report

Central Battery 6" Line #1
Ref. # #2003-00007

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

This report was prepared by:

Patrick W. McCasland — Date: 12.30.04

This report was reviewed by:

Iain Olness, PG Hyrogeologist — Date

Distribution List

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	NMOCD	1625 French Dr., Hobbs, NM 88231	LWJohnson@state.nm.us
Camille Reynolds	Environmental Supervisor	Plains	P.O. Box 3119, Midland, TX 79702	CJReynolds@paalp.com
Jeff Dann	Environmental Director	Plains	333 Clay Street Suite #1600, Houston, TX 77002	JPDann@paalp.com
Cody Miller	EPI General Manager	EPI	P.O. Box 1558, Eunice, NM 88231	Enviplus1@aol.com
Sherry Miller	EPI President	EPI	P.O. Box 1558, Eunice, NM 88231	Enviplus1@aol.com

NMOCD - New Mexico Oil Conservation Division
Plains - Plains All American Pipeline
EPI - Environmental Plus, Inc.
BLM - U.S. Department of Interior Bureau of Land Management

Table of Contents

1.0 INTRODUCTION

This site is located in UL-P (SE¼ of the SE¼) of Section 32, R37E, T19S at Latitude 32°36'34.88"N and Longitude 103°15'55.63"W approximately 1-mile south of Monument Lea County, New Mexico on property owned by the New Mexico State Highway Department. A topographical map is included in Attachment I. The estimated 150 barrel (bbl) crude oil leak attributed to internal/external corrosion, occurred on 1-09-03 at 7:00 AM in the Central Battery 6" steel pipeline with 85 bbls recovered and reintroduced to the system. Approximately 6,238 square feet (ft^2), i.e., 322' north to south and 20' east to west, of surface was affected. On January 16, 2003 a second leak, i.e., Central Battery 6" Line #2 #2003-00013, of 65 bbls (62 bbls recovered and reintroduced to the system) occurred in the bell hole excavated during repair of the initial leak. During the preliminary investigation, ground water was measured at 28.81 feet below ground surface ('bgs) with 6 water wells observed to be located within a 1,000-foot radius of the site. No surface water bodies were observed to be located within the 1,000-foot radius. These characteristics give the site a 40 point New Mexico Oil Conservation Division (NMOCD) ranking score that applies the following remedial guidelines for the "constituents/contaminants of concern" (CoCs):

CONSTITUENTS/CONTAMINANTS OF CONCERN	REMEDIAL GOAL
Benzene	10 mg/Kg
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH^{8015m})	100 mg/Kg

On January 29, 2003, three soil borings were advanced within the affected area to evaluate the vertical extent of crude oil impact. Soil boring BH1 near the leak origin was impacted to 10'bgs and soil borings BH2 and BH3 in the north and south halves of the north flowpath showed CoC impact to between 2 and 5'bgs. To evaluate if the shallow groundwater i.e., 28.81'bgs, had not been impacted, soil boring BH1 was installed and developed as a temporary 4"PVC cased monitor well. Analytical results from analysis of the well water sampled on February 21, 2003 did not exceed the New Mexico Water Quality Control Commission (WQCC) standards. At the direction of EOTT Energy Pipeline, L.P., the asset owner at the time, a total of 2,310 cubic yards (yd^3) of soil impacted above the remedial goals was disposed of in the NMOCD approved and permitted C&C Landfarm NM-01-0012 and the South Monument Surface Waste Management Facility NM-01-0032. In late April and early May 2003, the sides and bottom of the leak origin and the north and south halves of the north flowpath were sampled and analyzed in the laboratory for the CoCs. The analytical results indicated that the remedial goals had been achieved in all but the leak origin bottom. After qualifying discussions of the risks involved, the decision was made to leave the TPH residual (the 18 to 20'bgs bottom hole sample results were 127.8 mg/Kg TPH) in place (see section 4.7.2.2). The analytical reports are summarized and included in Attachment III. The excavated area was backfilled with clean soil, contoured to grade, and the fence replaced. Photographs are included in Attachment II. Plains All American Pipeline requests that "no further action" be required at this site.

2.0 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved "**General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000**" and the NMOCD guidelines published in the following documents:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH^{8015m}, benzene, and BTEX (the mass sum of benzene, toluene, ethylbenzene, and total xylene) were determined based on the NMOCD Ranking Criteria as follows:

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

2.1 GEOLOGICAL DESCRIPTION

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and was encountered at 4.5'bgs.

2.2 ECOLOGICAL DESCRIPTION

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

2.3 AREA GROUND WATER

Ground water was encountered at 28.81'bgs during the site delineation and is consistent with the New Mexico Office of the State Engineer. According to the USGS, the ground water elevation decreases generally to the southeast.

2.4 AREA WATER WELLS

The New Mexico Office of the State Engineer (NMOSE) records 5 domestic and 1 agricultural use water wells within a 1,000-foot radius of the site. A water well location map is included in Attachment II, the NMOSE report is included in Attachment IV, and the area water well information matrix provided below.

Plains Central Battery 6" Area Water Well Matrix
WELL / SURFACE DATA REPORT 11/21/2004

Well No.#	Tws	Rng	Sec	Easting	Northing	Water Level Date	Water Level ('bgs)
L 10069	20S	37E	4	663045	3608918	4/10/1989	22
L 02102	20S	37E	5	661857	3607693	3/20/1953	46
L 02278	20S	37E	5	662261	3607698	2/1/1961	37
L 02488	20S	37E	5	662247	3608504	2/3/1954	32
L 02497	20S	37E	5	661353	3607586	3/10/1954	35
L 09779	20S	37E	5	662742	3609012	1/15/1985	40
L 03380	19S	37E	32	662314	3610618	12/7/1956	35
L 03938	19S	37E	32	662434	3609515	9/5/1958	25
L 05049	19S	37E	32	661630	3609503	4/23/1963	27
L 06492	19S	37E	32	661410	3610508	4/4/1969	27
L 03738	19S	37E	33	664245	3609344	12/2/1957	31
L 03988	**19S**	**37E**	**33**	**662937**	**3609225**	**9/5/1958**	**29**
L 09128	**19S**	**37E**	**33**	**662937**	**3609425**	**12/20/1984**	**26**
L 09129	19S	37E	33	663843	3609338	9/1/1984	43
L 10397	19S	37E	33	663521	3610635	5/4/1994	13
Site MW	**19S**	**37E**	**32**	**662827.4**	**3609148**	**2/21/2003**	**28.81**
Davis East Well	**20S**	**37E**	**5**	**662715**	**3609035**		**na**
Davis Northwest Well	**20S**	**37E**	**5**	**662682**	**3609050**		**na**
Davis Southwest Well	**20S**	**37E**	**5**	**662696**	**3609033**		**na**

Bold indicates wells within 1,000 horizontal feet of the site.

2.5 AREA SURFACE WATER BODIES

There are no permanent or intermittent surface water bodies within a 1,000-foot radius of the site.

3.0 NMOCD SITE RANKING

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water, the site has an NMOCD ranking score of 40 points with the soil remedial goals highlighted below in the Site Ranking Matrix.

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= 20*	*Surface Water Score= 0*
Site Rank (1+2+3) = 20 +20 + 0 = 40 points		

Total Site Ranking Score and Acceptable Remedial Goal Concentrations

Parameter	>19	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

4.0 SOIL INVESTIGATION

The vertical extents of CoC impact were delineated on January 29, 2003 and the horizontal extents delineated during excavation with confirmation sidewall and bottom composite samples collected on April 29 and May 7 and 19, 2003.

4.6 SOIL BORING DATA

On January 29, 2003, three soil borings were advanced within the affected area to evaluate the vertical extent of crude oil impact. Soil boring BH1 near the leak origin was impacted to 10'bgs and soil borings BH2 and BH3 in the north and south halves of the north flowpath showed CoC impact to between 2 and 5'bgs. The site map showing the affected area and the soil boring locations is included in Attachment I. The analytical results are provided and summarized in Attachment III and illustrated below after section 4.7.2.2.3.

4.7 EXCAVATION DATA

The excavated areas were divided into the leak origin excavation and the north flowpath. The north flowpath was split into the north and south halves.

4.7.1 NORTH FLOWPATH

The north flowpath was excavated vertically from approximately 3'bgs at the north end to approximately 6'bgs at the south end adjacent to the leak origin excavation. Soil was also removed laterally 5 to 10-feet beyond the initial spill area perimeter. On April 29, 2003, after VOC headspace surveys of the sides and bottoms indicated adequate soil removal, a series of five-point composite samples of the sides and bottom of the north and south halves of the north flowpath were

collected and submitted to the laboratory for CoC analyses. All laboratory analytical results were less than the NMOCD remedial goals.

4.7.2 LEAK ORIGIN EXCAVATION

The leak origin final excavated vertical interval was approximately 18'bgs and was the maximum depth attainable with a track mounted backhoe (trackhoe). The excavation extended laterally beyond the initial spill area perimeter approximately 20-feet to the west, approximately 10-feet to the east, and approximately 5-feet to the south. The north part of the excavation graded from approximately 18'bgs to approximately 6'bgs northward into the north flowpath. Five-point composite samples of the sides and bottom were routinely collected during excavation and surveyed for VOC headspace to assess adequacy of soil removal. The initial sidewall and bottom composite samples were collected on May 7, 2003. All samples were below the CoC remedial goals except for the west sidewall and the bottom composite samples.

4.7.2.1 West Sidewall

The west sidewall exceeded only the 100 mg/Kg TPH^{8015m} remedial goal at 443.5 mg/Kg. Subsequently, the west sidewall was excavated further and resampled on May 19, 2004 with the analytical results showing no CoC detections above the method detection limits.

4.7.2.2 Bottom

The decision was made to cease vertical removal of soil given the absence of BTEX compounds, the acceptability of the TPH concentration (127.8 mg/Kg TPH) when considering the range of TPH concentrations represented by the reported value, and because of excavation and site safety issues (adjacent to New Mexico State Road 8).

4.7.2.2.1 Bottom BTEX

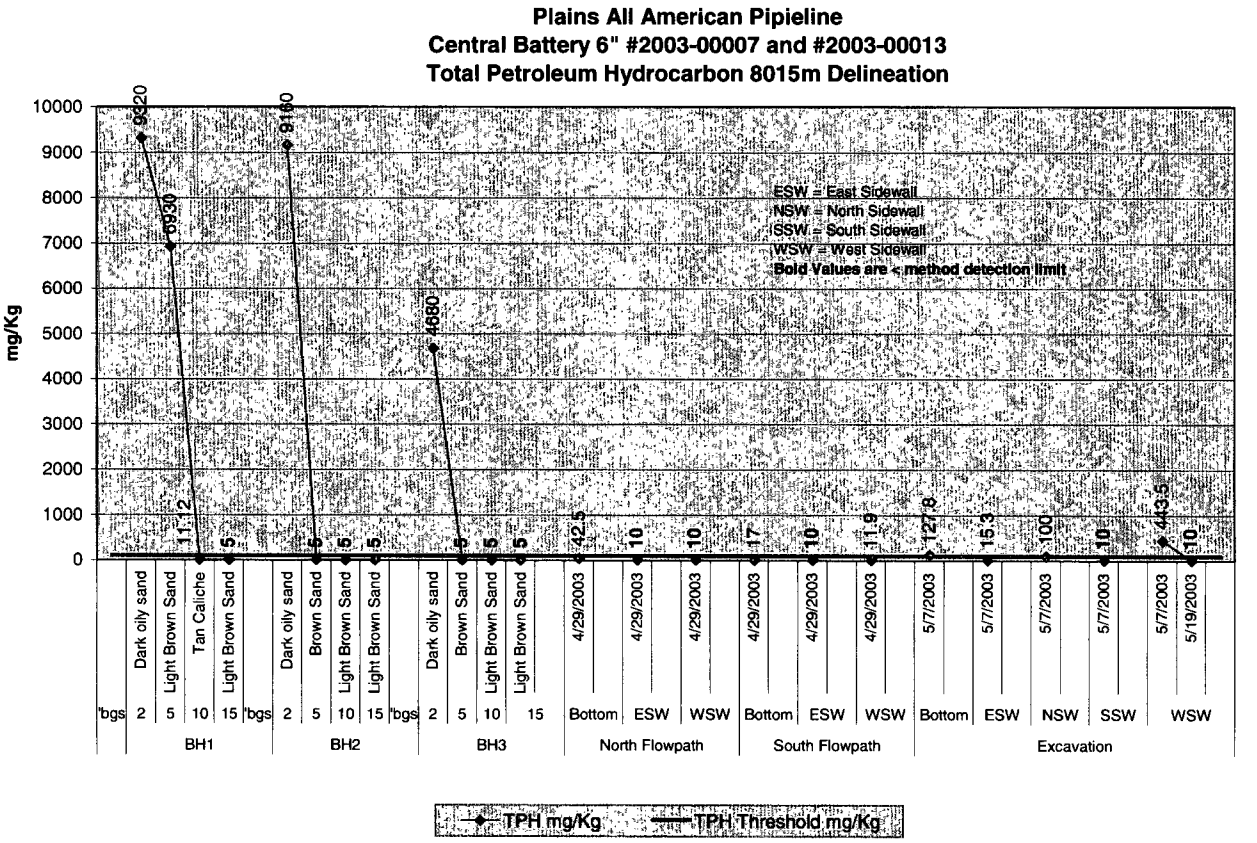
The fact that the BTEX compounds were not detected above the laboratory method detection limits in the bottom sample supports the decision to cease soil removal.

4.7.2.2.2 Bottom TPH^{8015m}

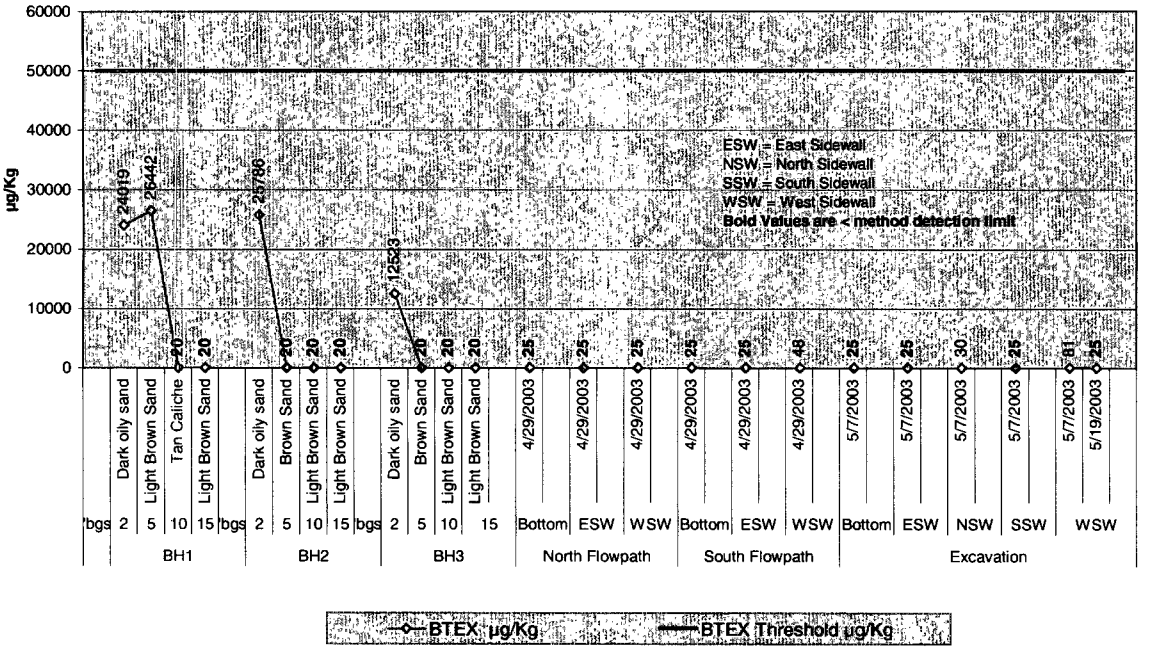
The bottom TPH^{8015m} result was only slightly elevated above the 100 mg/Kg TPH^{8015m} remedial goal at 127.8 mg/Kg. Review of the laboratory quality control (QC) analyses shows that the "% recovery" of the surrogates, i.e., 1-Chlorooctane and 1-Chlorooctadecane, to be 130% and 117%, respectively. These analytical recovery rates are within the QC limits but suggest that the reported values could be inflated by as much as 17% for the "gasoline range organics" (GRO) and 30% for the "diesel range organics" (DRO). The reported values actually represent a TPH concentration range from an acceptable 89.46 mg/Kg to 127.8 mg/Kg with a mean value of 108.63 mg/Kg. Furthermore, 89% of the TPH residual is composed of non-soluble DRO and will not, under the unsaturated conditions, be capable of vertical migration and poses no risk to the groundwater or the near surface environment.

4.7.2.2.3 Excavation and Site Safety Issues

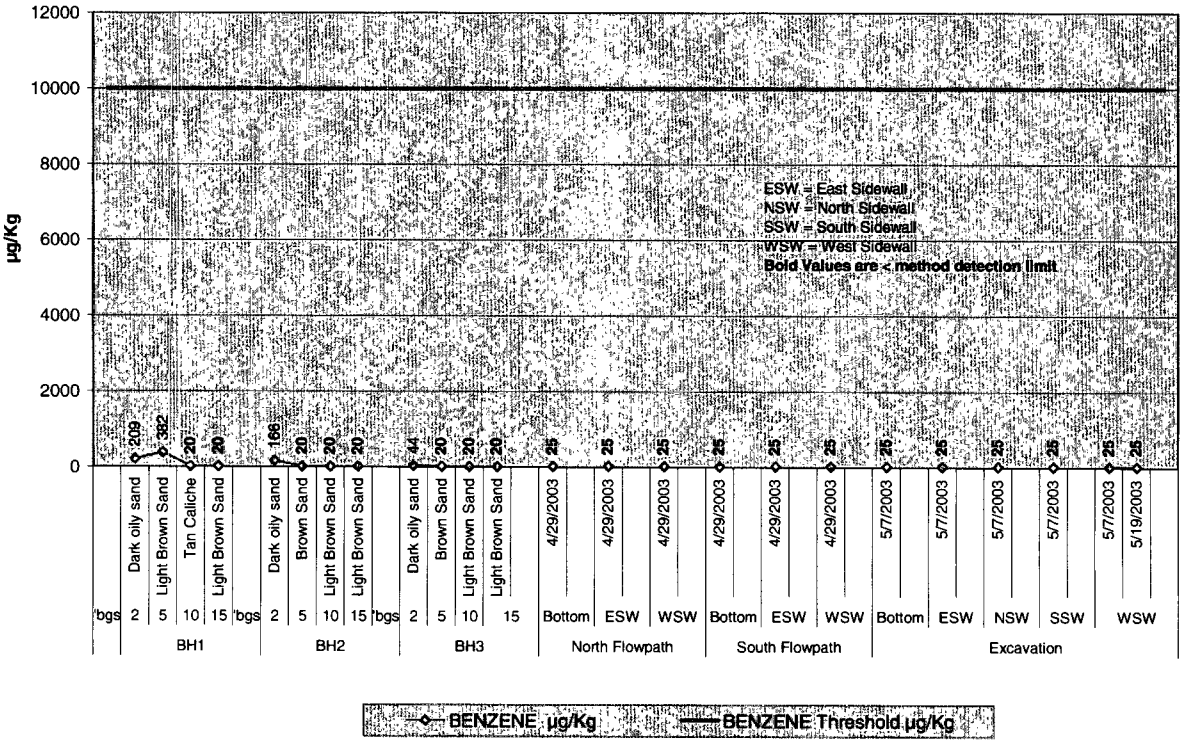
Because of the safety issues associated with further excavation, i.e., pressurized lines crossing the excavation, the proximity to New Mexico State Road 8, and the excavation safety issues, the decision was made to leave the bottom intact. Deeper excavation would have required expanding the excavation laterally and looping the active lines around the excavation. Further soil removal on the east of the excavation would interfere with traffic and could have affected the stability of the roadway and was not tenable.



Plains All American Pipieline
Central Battery 6" #2003-00007 and #2003-00013
BTEX Delineation



Plains All American Pipieline
Central Battery 6" #2003-00007 and #2003-00013
Benzene Delineation



5.0 GROUND WATER INVESTIGATION

To evaluate if the crude oil had impacted ground water, soil boring BH1, located approximately 15-feet southeast and down gradient of the leak origin, was advanced to groundwater and installed and developed as a temporary 4"PVC cased monitor well. The well was purged and sampled on February 21, 2003 and the sample submitted to the laboratory for benzene, toluene, ethylbenzene, and xylene analysis. The laboratory did not detect any of the analytes above the method detection limit of 1 µg/L, well below the New Mexico Water Quality Control Commission (WQCC) standards. The monitor well was not subsequently sampled. The analytical results are summarized below and the reports included in Attachment III.

Plains All American Pipeline							
Central Battery 6" #2003-00007 & #2003-00013 Groundwater Data							
Temporary Monitor Well installed at BH1 near the leak origin							
Sample Location	Sample Identification	Sample Date	Water Level (feet below ground surface)	Benzene µg/Kg	Toluene µg/Kg	Ehtylbenzene µg/Kg	m,p, &o -Xylene µg/Kg
MW (BH1)	WEC622103MW	2/21/2003	28.81	<1	<1	<1	<1
NM Water Quality Control Commission Standards				10	750	750	620

6.0 SOIL REMEDIATION

At the direction of EOTT Energy Pipeline, L.P., the asset owner at the time, a total of 2,310 yd^3 of soil impacted above the remedial goals was disposed of in the NMOCD approved and permitted C&C Landfarm NM-01-0012 and the South Monument Surface Waste Management Facility NM-01-0032. The laboratory analytical results from composite samples collected from the leak origin and north flowpath excavation sides and bottoms was discussed relative to the potential environmental risks, achievement of the NMOCD remedial goals, and site safety issues and determined to be acceptable. The excavation was backfilled with clean soil, contoured to the natural grade, and the fence replaced. Photographs are included in Attachment II.

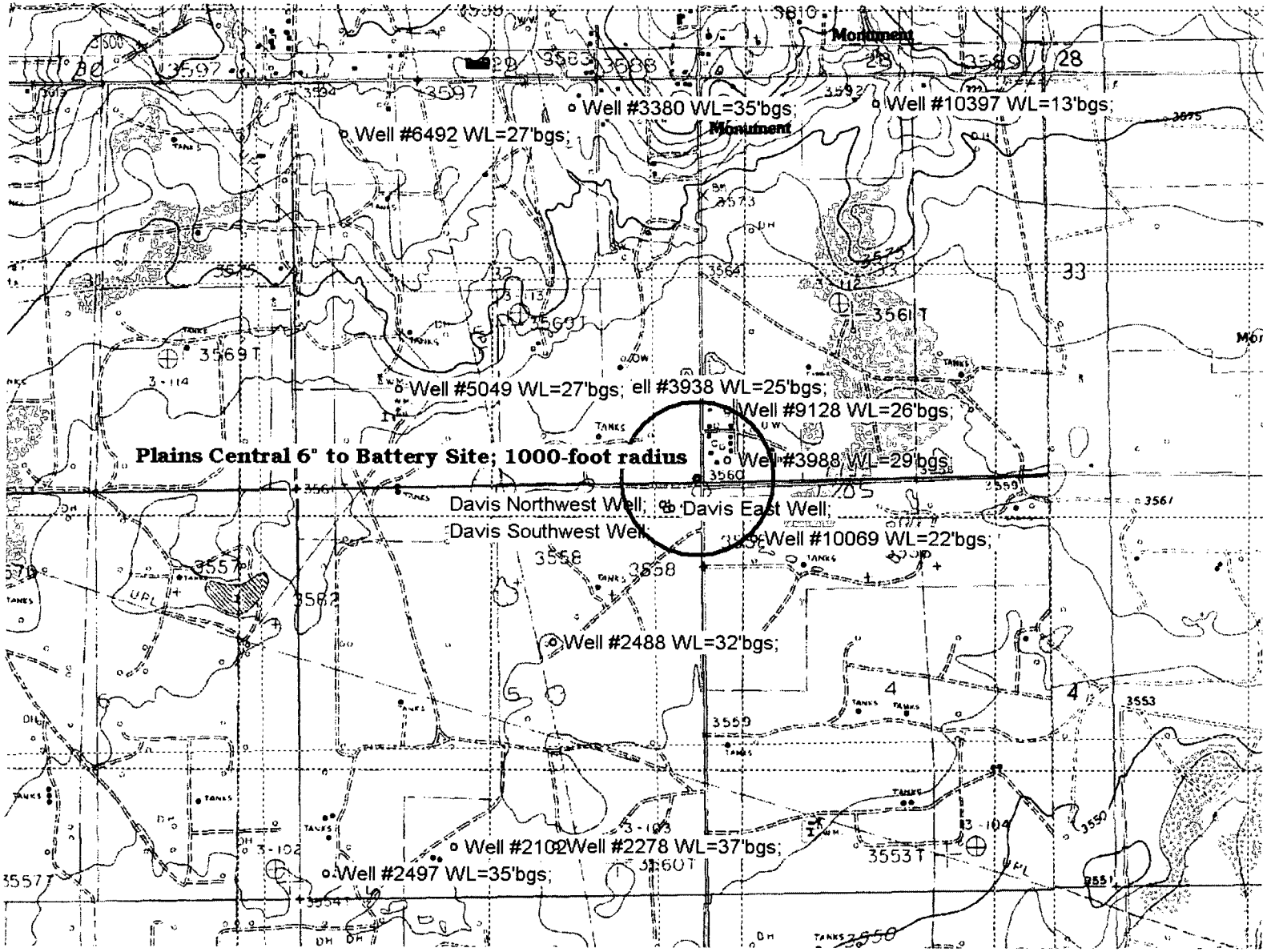
7.0 CONCLUSION AND CLOSURE REQUEST

The information provided in this report documents:

- Adequate delineation of the vertical and horizontal extents of crude oil impact in the soil,
- Verification that groundwater had not been impacted,
- Acceptable remediation of the site, and
- Acceptable surface restoration.

The site has been remediated to the NMOCD standards except for the nominal TPH residual at approximately 18'bgs. Removal of this residual source term is not justified because it does not represent an environmental risk to the groundwater, the near surface ecology, or area residents. Therefore, Plains All American Pipeline requests that the NMOCD require "no further action" at this site.

ATTACHMENT I: SITE MAPS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Well #10397 WL=13'bgs;
Well #6492 WL=27'bgs;
Well #5049 WL=27'bgs;
Well #3938 WL=25'bgs;
Well #9128 WL=26'bgs;
Plains Central 6" to Battery Site; 1000-foot radius
Well #3988 WL=29'bgs;
Davis Northwest Well;
Davis East Well;
Davis Southwest Well;
Well #10069 WL=22'bgs;
Well #2488 WL=32'bgs;
Well #2102
Well #2278 WL=37'bgs;
Well #2497 WL=35'bgs;

EOTT ENERGY PIPELINE CENTRAL BATTERY 6" LINE #2003-00007 UL-P SEC 32 T19S R37E AFFECTED SURFACE AREA ~6,238 SQFT

N

SCALE 1:3,500

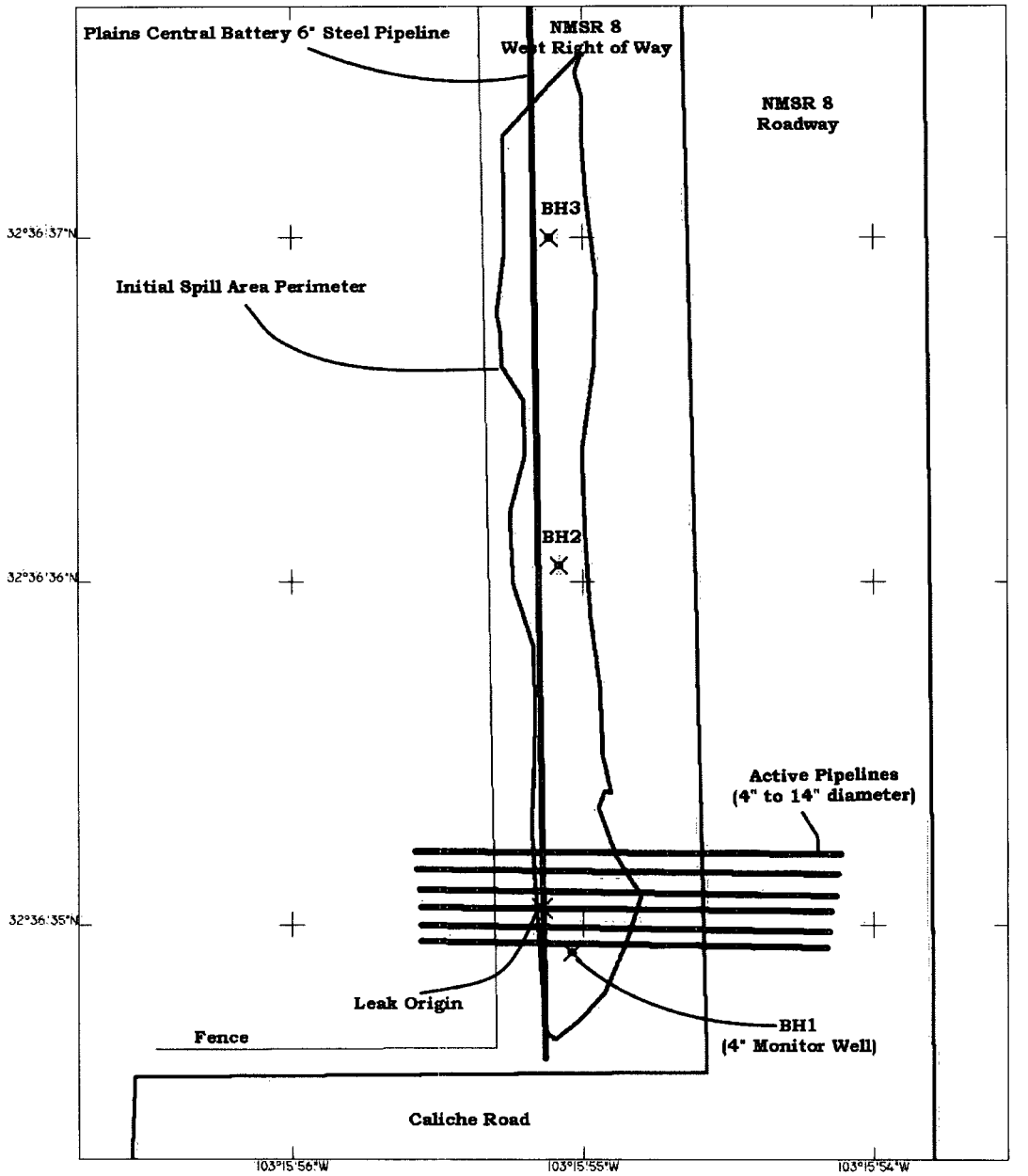
0 400.0

FEET

UNIVERSAL TRANSVERSE MERCATOR
13 NORTH
NAD 1983 HPGN (NEW MEXICO)

R010917A.SSF

1/9/2003



PLAINS ALL AMERICAN PIPELINE
CENTRAL BATTERY 6" LINE #2003-00007 & #2003-00013
UL-P SECTION 32 T19S R37E LEA COUNTY, NEW MEXICO
AFFECTED AREA ~6,238 SQFT

LAT/LONG
WGS 1984

SCALE 1:600

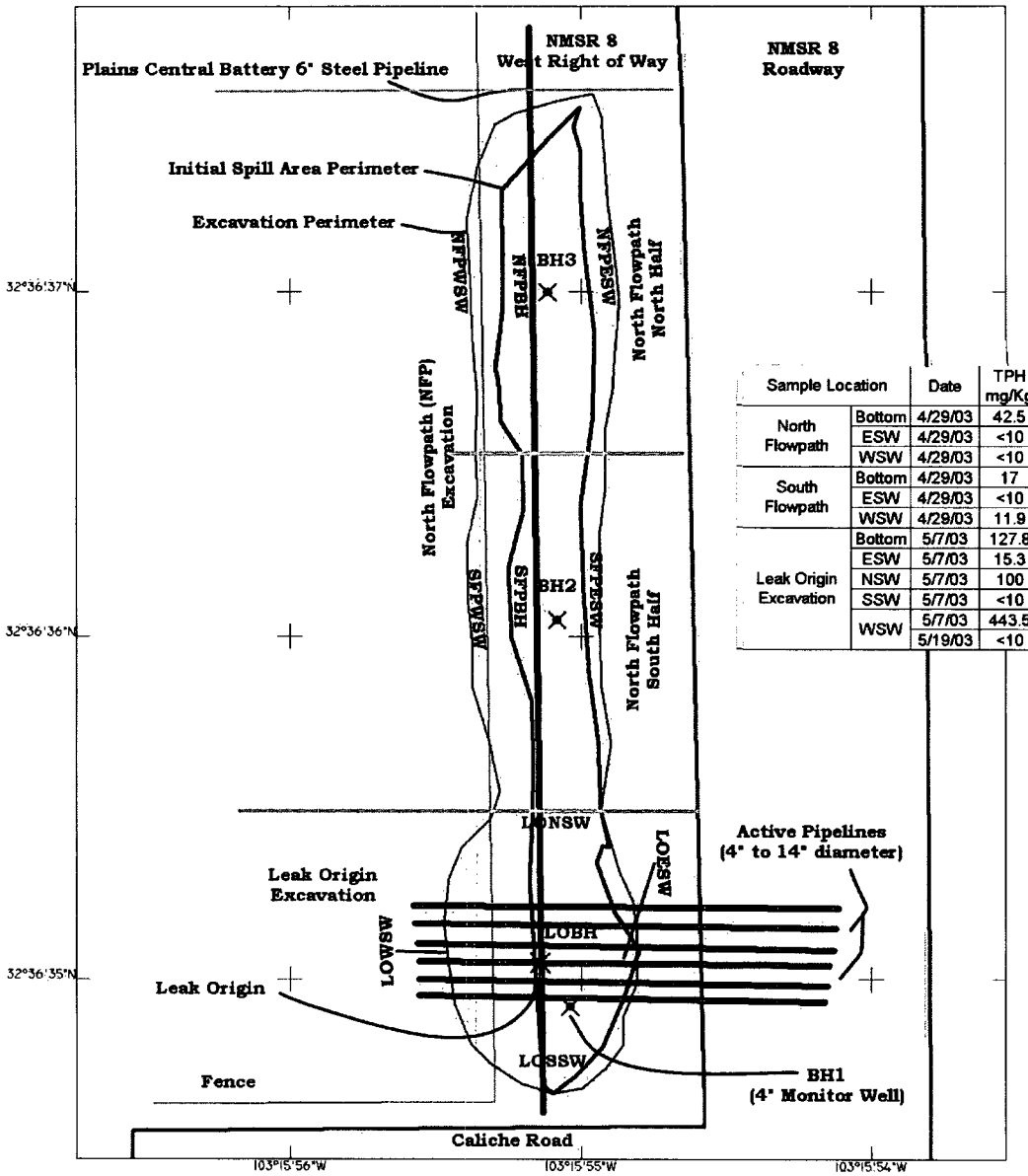
N

0 70.00

FEET

CENTRAL BATTERY BOREHOLE MAP.SSF

11/25/2004



Sample Location		Date	TPH mg/Kg	BTEX µg/Kg	BENZENE µg/Kg
North Flowpath	Bottom	4/29/03	42.5	26	26
	ESW	4/29/03	<10	<25	<25
	WSW	4/29/03	<10	<25	<25
South Flowpath	Bottom	4/29/03	17	<25	<25
	ESW	4/29/03	<10	<25	<25
	WSW	4/29/03	11.9	48	<25
Leak Origin Excavation	Bottom	5/7/03	127.8	<25	<25
	ESW	5/7/03	15.3	<25	<25
	NSW	5/7/03	100	30	<25
	SSW	5/7/03	<10	<25	<25
	WSW	5/7/03	443.5	81	<25
		5/19/03	<10	<25	<25

PLAINS ALL AMERICAN PIPELINE
CENTRAL BATTERY 6" LINE #2003-00007 & #2003-00013
UL-P SECTION 32 T19S R37E LEA COUNTY, NEW MEXICO

LAT/LONG
WGS 1984

Composite Sample Location Key
LO = Leak Origin Excavation
NFP = North Half of North Flowpath
SFP = South Half of North Flowpath
ESW = East Sidewall
WSW = West Sidewall
NSW = North Sidewall
SSW = South Sidewall
BH = Bottom Hole

N

SCALE 1:600

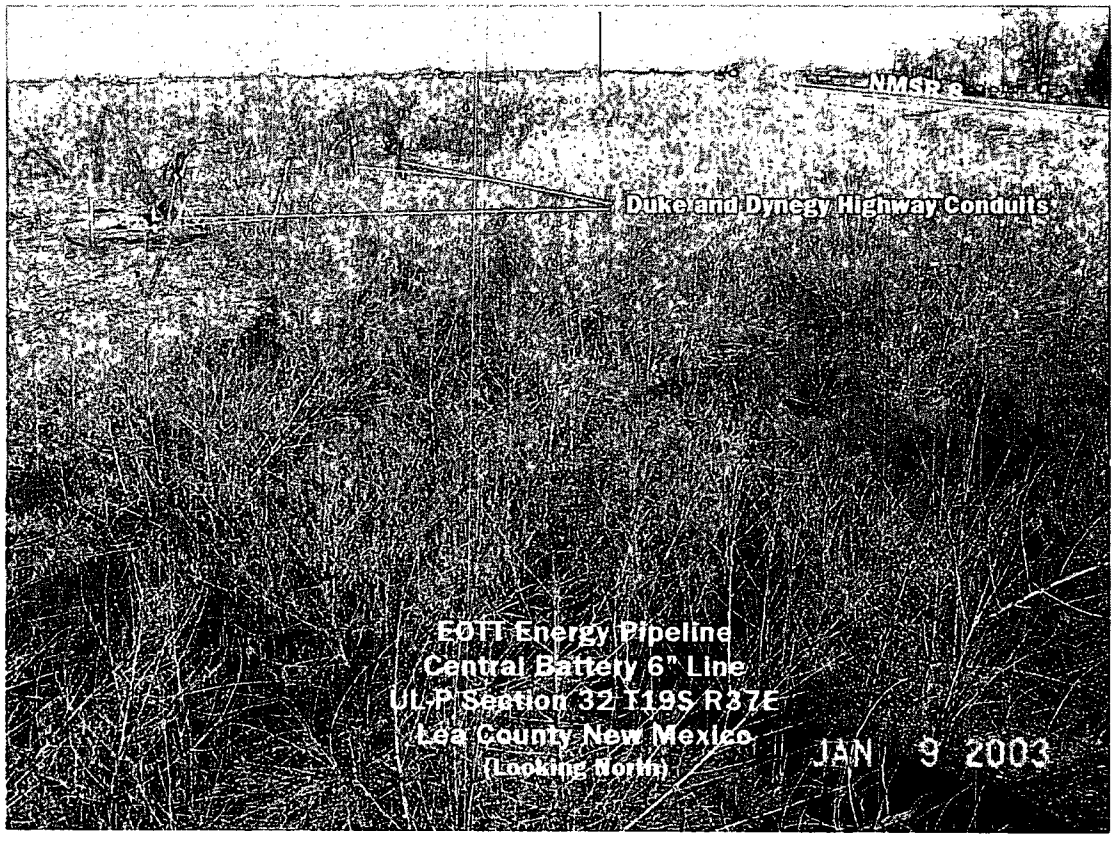
0 70.00

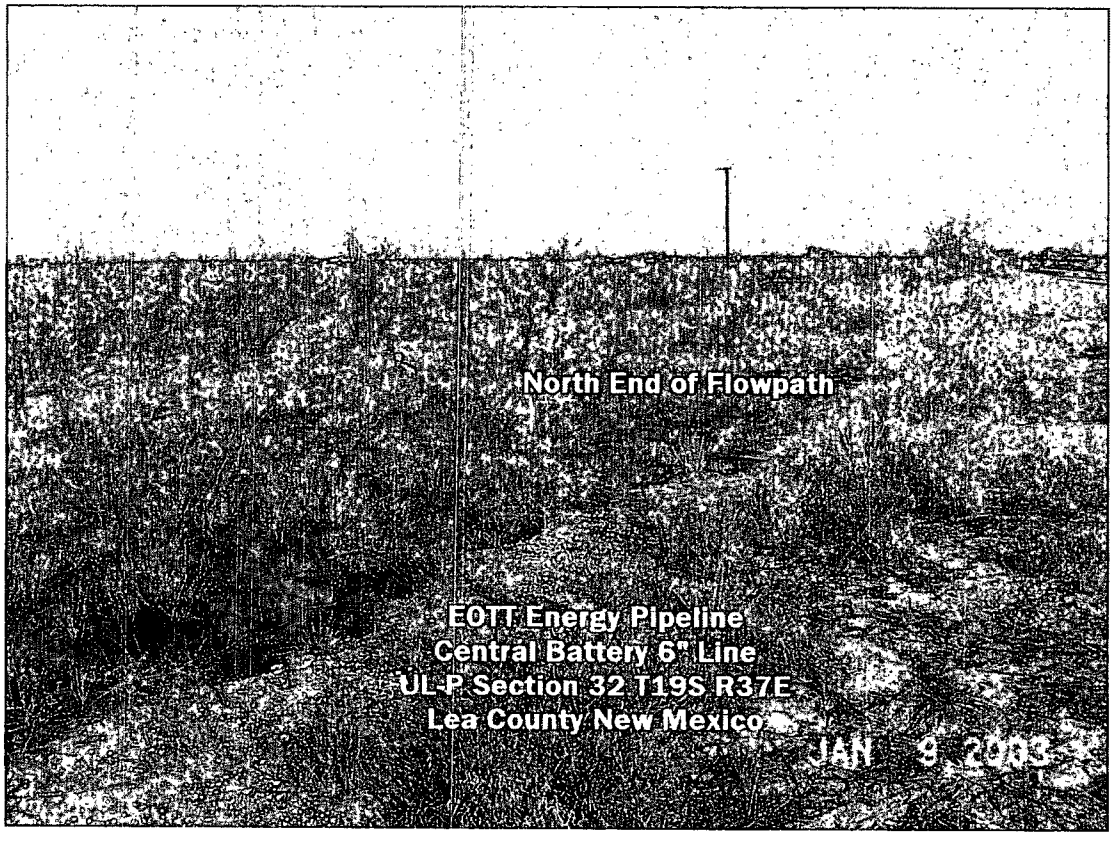
FEET

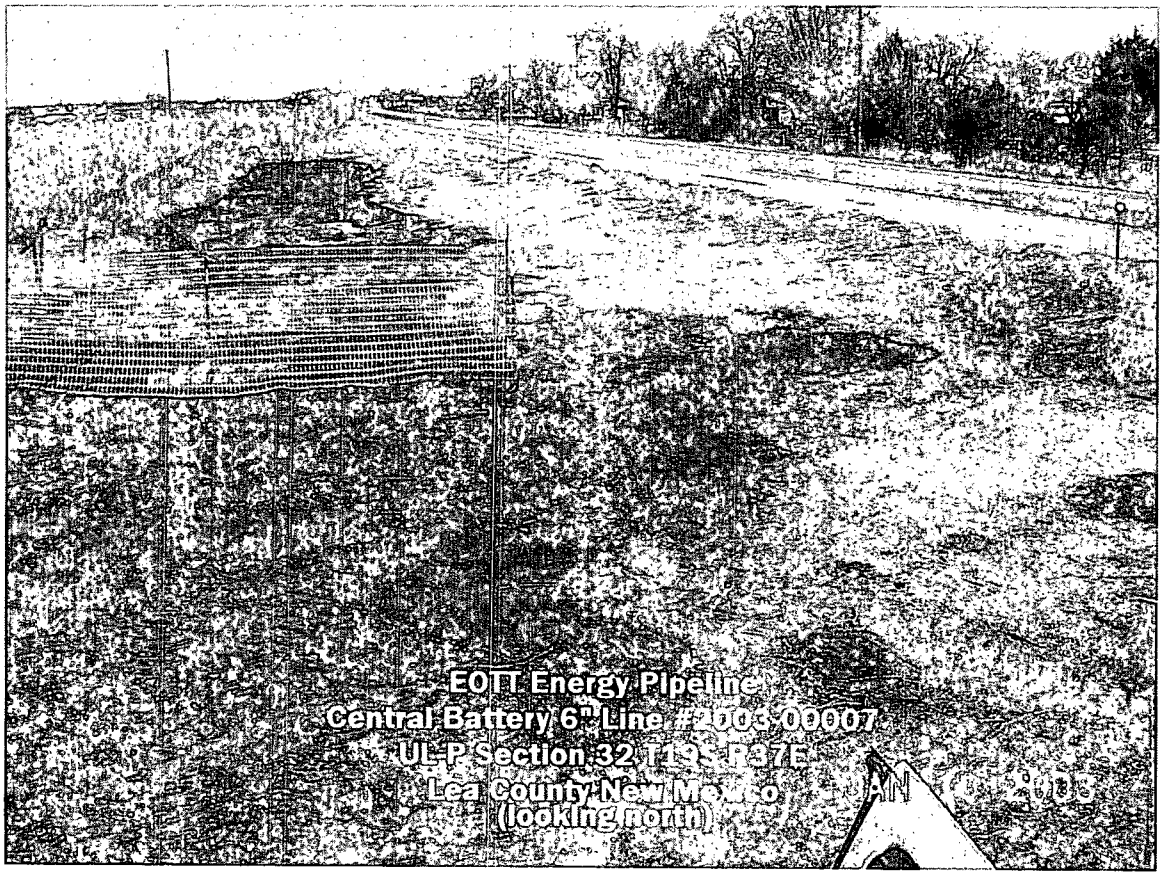
CENTRAL BATTERY EXCAVATION SAMPLE MAP.S

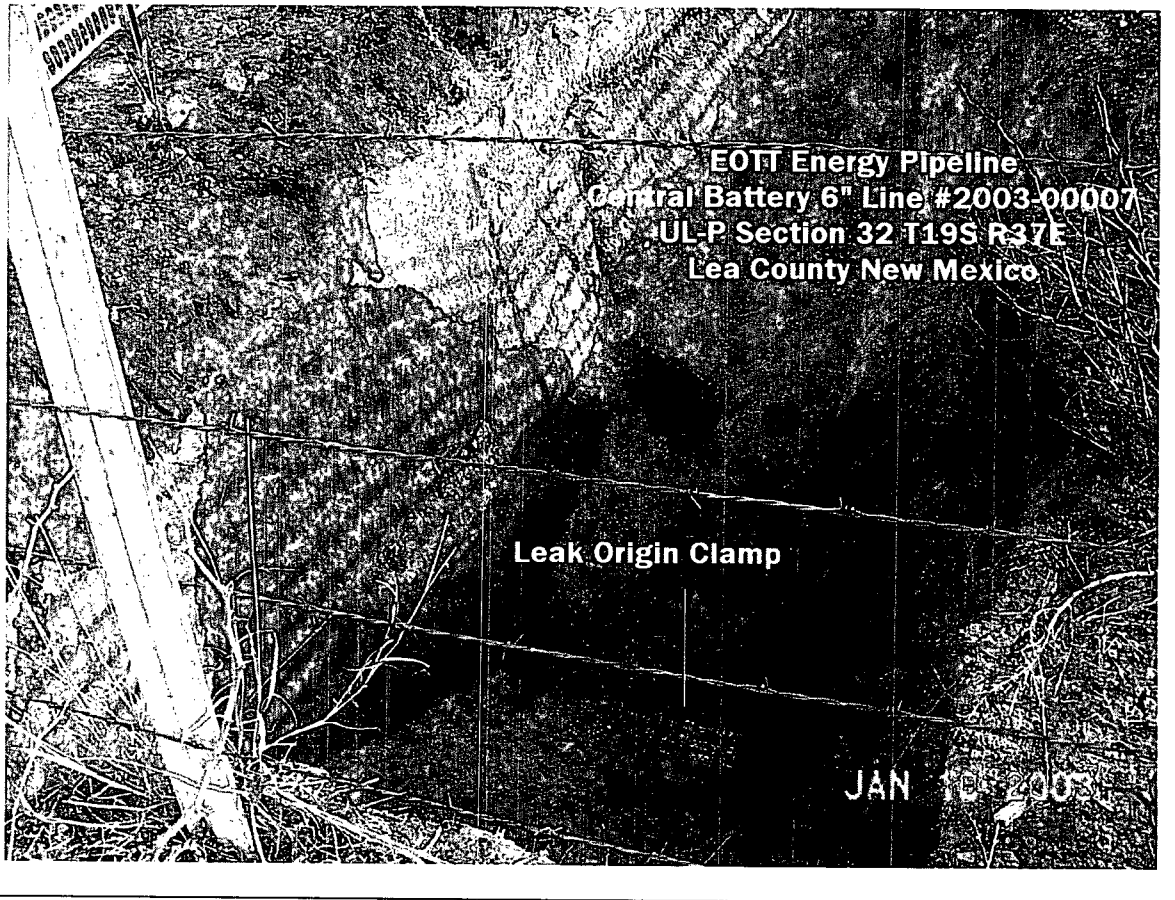
11/25/2004

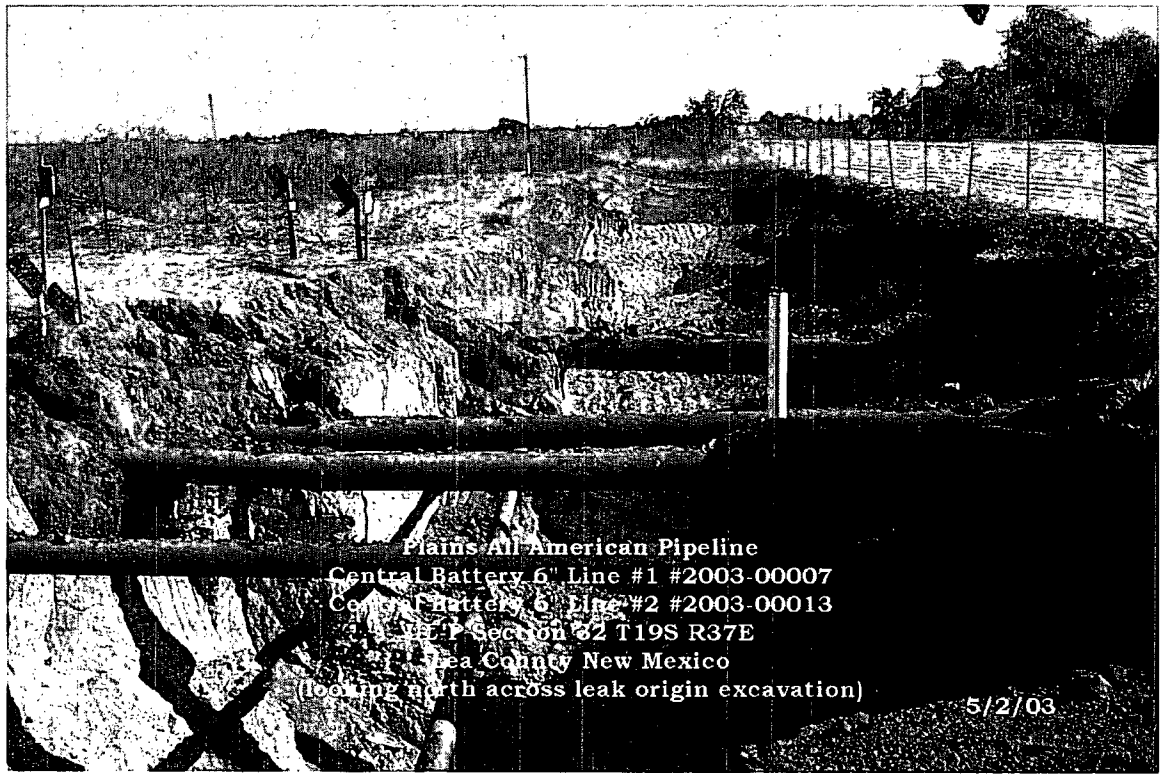
ATTACHMENT II: PHOTOGRAPHS

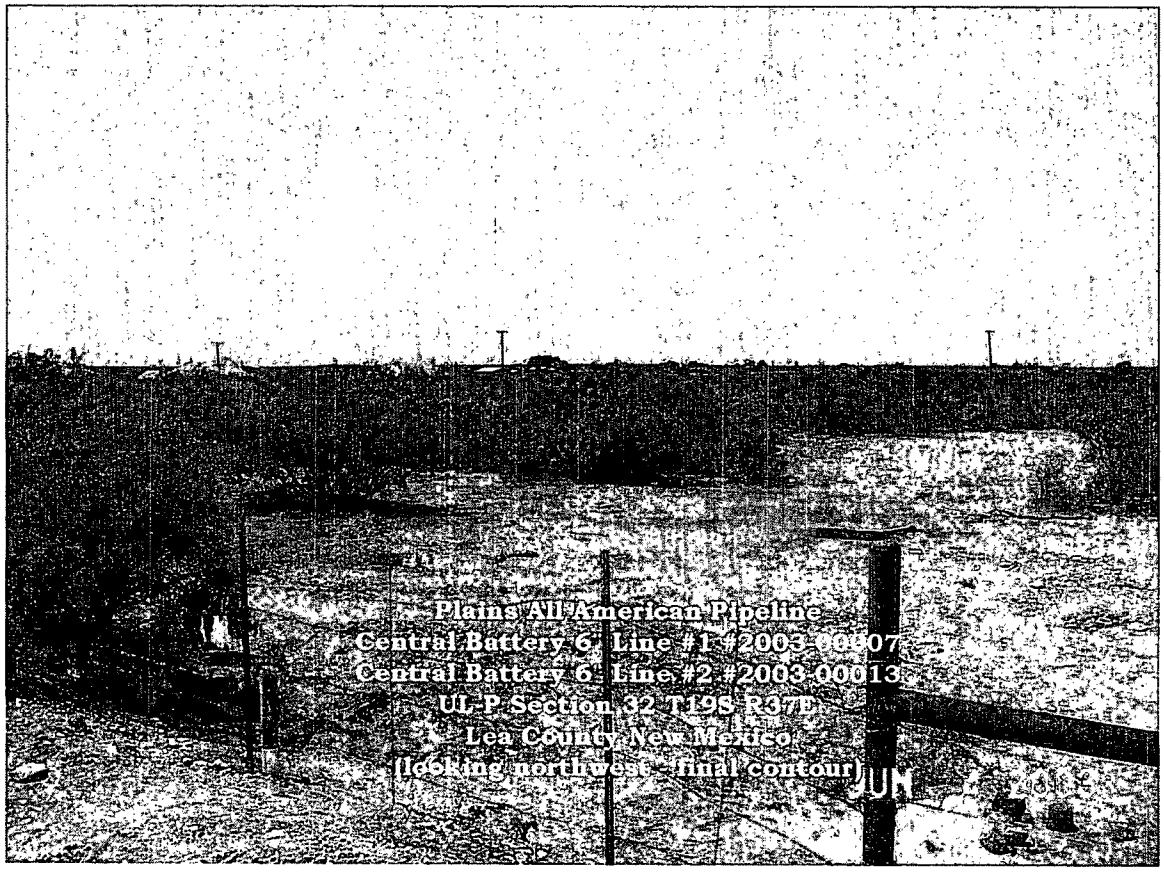

Duke and Dynegy Highway Conduits
EOTT Energy Pipeline
Central Battery 6" Line
UL-P Section 32 T19S R37E
Lea County New Mexico
(Looking North)
JAN 9 2003

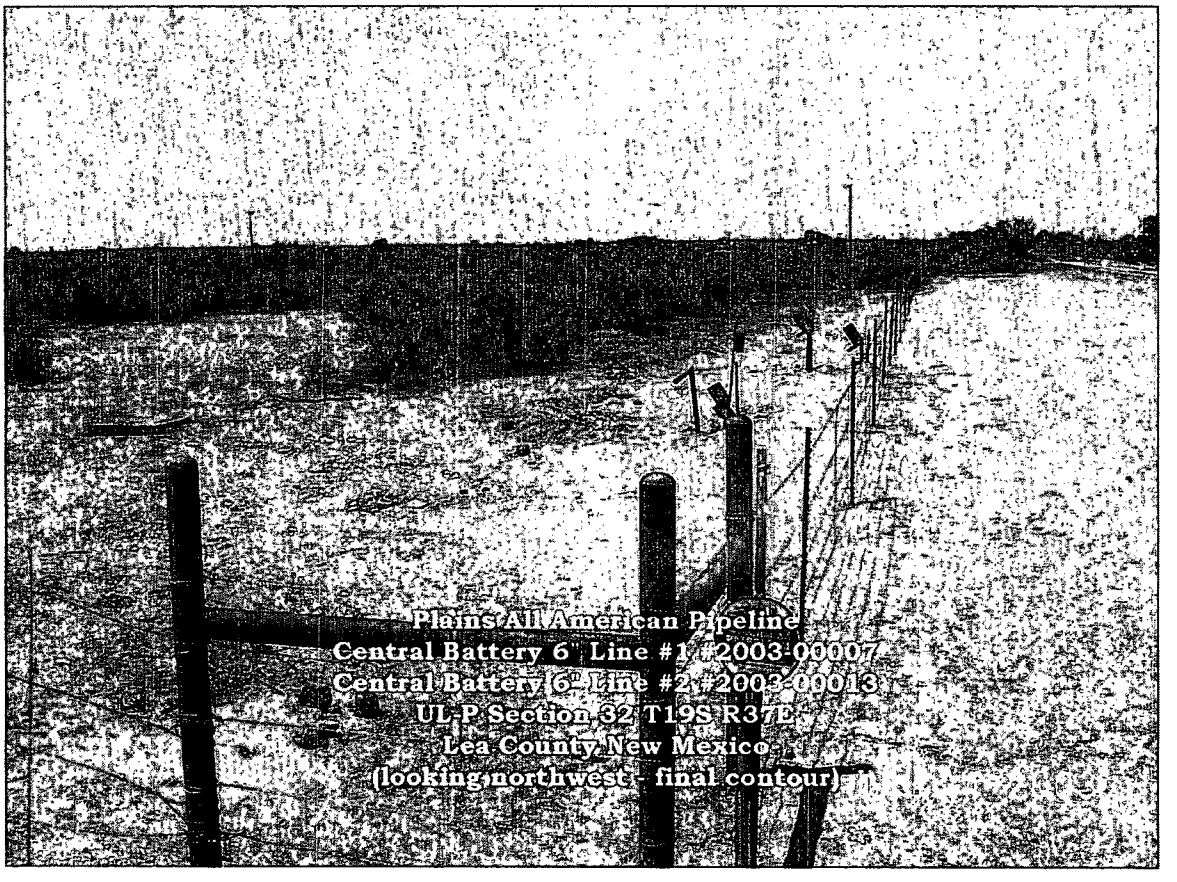

North End of Flowpath
EOTT Energy Pipeline
Central Battery 6" Line
UL-P Section 32 T19S R37E
Lea County New Mexico
JAN 9 2003


EOTT Energy Pipeline
Central Battery 6" Line #2003-00007
UL-P Section 32 T19S R37E
Lea County New Mexico
(looking north)

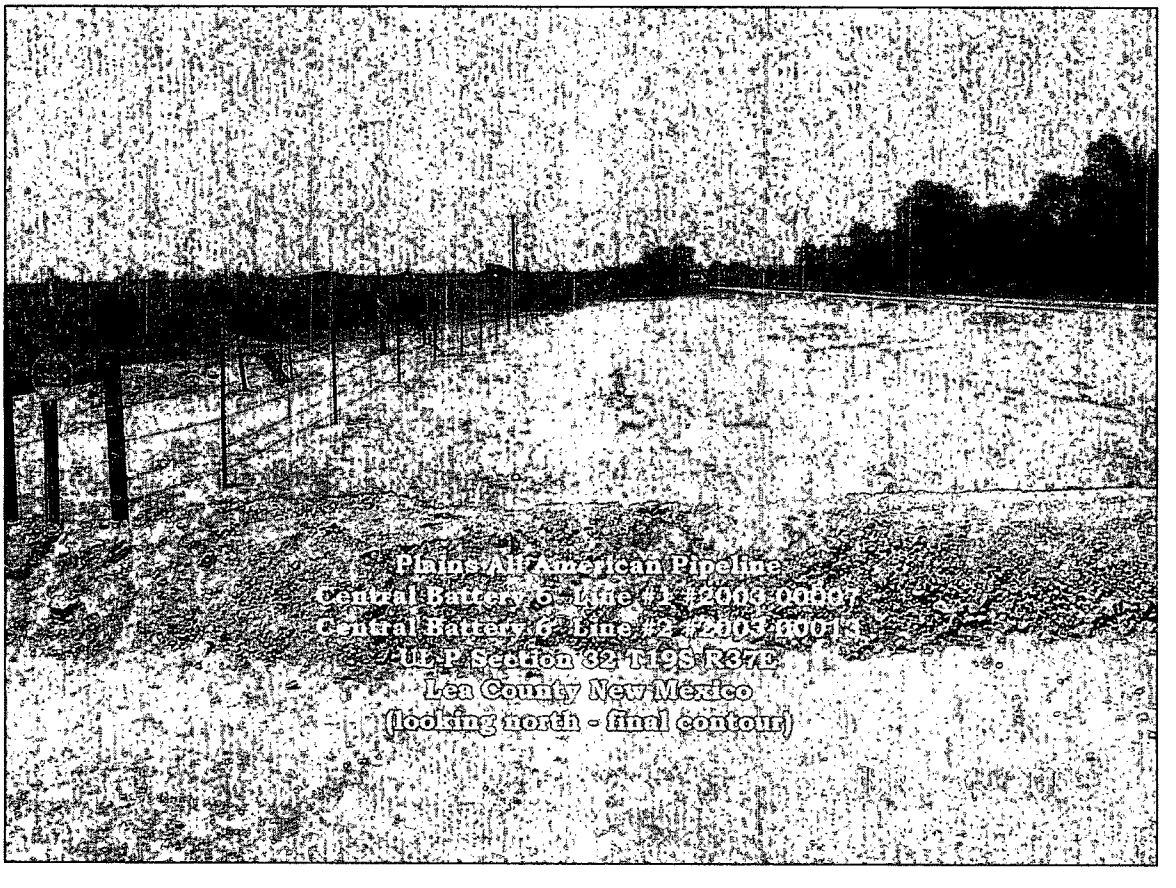

EOTT Energy Pipeline
Central Battery 6" Line #2003-00007
UL-P Section 32 T19S R37E
Lea County New Mexico
Leak Origin Clamp


Plains All American Pipeline
Central Battery 6" Line #1 #2003-00007
Central Battery 6" Line #2 #2003-00013
UL-P Section 32 T19S R37E
Lea County New Mexico
(looking north across leak origin excavation)
5/2/03


Plains All American Pipeline
Central Battery 6" Line #1 #2003-00007
Central Battery 6" Line #2 #2003-00013
UL-P Section 32 T19S R37E
Lea County New Mexico
(looking northwest - final contour)
JUN



Plains All American Pipeline
Central Battery 6" Line #1 #2003-00007
Central Battery 6" Line #2 #2003-00013
UL-P Section 32 T19S R37E
Lea County New Mexico
(looking northwest - final contour)



Plains All American Pipeline
Central Battery 6" Line #1 #2003-00007
Central Battery 6" Line #2 #2003-00013
UL-P Section 32 T19S R37E
Lea County New Mexico
(looking north - final contour)

ATTACHMENT III: ANALYTICAL REPORTS AND SUMMARY

Plains All American Pipeline

Central Battery 6" #2003-00007 & #2003-00013 Delineation Data

Borehole	Sampling Interval bgs	Sample Identification	Sample Date	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX µg/Kg	Benzene µg/Kg	Toluene µg/Kg	Ethylbenzene µg/Kg	m,p-Xylene µg/Kg	o-Xylene µg/Kg
BH1	2'	SEC6B612903BH1-2	1/29/2003	Dark oily sand	321	4830	4490	9320	24019	209	3570	5080	11900	3260
	5'	SEC6B612903BH1-5	1/29/2003	Light Brown Sand	31.6	4060	2870	6930	26442	382	4600	5190	12900	3370
	10'	SEC6B612903BH1-10	1/29/2003	Tan Caliche	17.2	<5	6.12	6.12	<20	<20	<20	<20	<20	<20
	15'	SEC6B612903BH1-15	1/29/2003	Light Brown Sand	5.8	<5	<5	<5	<20	<20	<20	<20	<20	<20
BH2	2'	SEC6B612903BH2-2	1/29/2003	Dark oily sand	247	4290	4870	9160	25786	166	2130	3850	17100	2540
	5'	SEC6B612903BH2-5	1/29/2003	Brown Sand	10.4	<5	<5	<5	<20	<20	<20	<20	<20	<20
	10'	SEC6B612903BH2-10	1/29/2003	Light Brown Sand	3.7	<5	<5	<5	<20	<20	<20	<20	<20	<20
	15'	SEC6B612903BH2-15	1/29/2003	Light Brown Sand	2.1	<5	<5	<5	<20	<20	<20	<20	<20	<20
BH3	2'	SEC6B612903BH3-2	1/29/2003	Dark oily sand	359	1640	3040	4680	12523	44	939	2000	8220	1320
	5'	SEC6B612903BH3-5	1/29/2003	Brown Sand	264	<5	<5	<5	<20	<20	<20	<20	<20	<20
	10'	SEC6B612903BH3-10	1/29/2003	Light Brown Sand	22.4	<5	<5	<5	<20	<20	<20	<20	<20	<20
	15'	SEC6B612903BH3-15	1/29/2003	Light Brown Sand	3.4	<5	<5	<5	<20	<20	<20	<20	<20	<20
North Flowpath	Bottom	SEC6NFPBH	4/29/2003	Light Brown Sand	8.1	<10	42.5	42.5	<25	<25	<25	<25	<25	<25
	East Sidewall	SEC6NFPESW	4/29/2003	Light Brown Sand	0.7	<10	<10	<10	<25	<25	<25	<25	<25	<25
	West Sidewall	SEC6NFPWSW	4/29/2003	Light Brown Sand	1.2	<10	<10	<10	<25	<25	<25	<25	<25	<25
South Flowpath	Bottom	SEC6SFPBH	4/29/2003	Light Brown Sand	3.4	<10	17	17	<25	<25	<25	<25	<25	<25
	East Sidewall	SEC6SFPESW	4/29/2003	Light Brown Sand	2.1	<10	<10	<10	<25	<25	<25	<25	<25	<25
	West Sidewall	SEC6SFPWSW	4/29/2003	Light Brown Sand	0.4	<10	11.9	11.9	48	<25	<25	<25	48	<25
Excavation	Bottom	SECB65703BH	5/7/2003	Light Brown Sand	3.4	13.8	114	127.8	<25	<25	<25	<25	<25	<25
	East Sidewall	SECB65703ESW	5/7/2003	Light Brown Sand	4.2	<10	15.3	15.3	<25	<25	<25	<25	<25	<25
	North Sidewall	SECB65703NSW	5/7/2003	Light Brown Sand	2.1	<10	100	100	30	<25	<25	<25	30	<25
	South Sidewall	SECB65703SSW	5/7/2003	Light Brown Sand	0.4	<10	<10	<10	<25	<25	<25	<25	<25	<25
	West Sidewall	SECB65703WSW	5/7/2003	Light Brown Sand	22	74.5	369	443.5	81	<25	<25	<25	81	<25
		SECB651903WSW	5/19/2003	Light Brown Sand	0.4	<10	<10	<10	<25	<25	<25	<25	<25	<25
				Remedial Goal				100	50000	10000				

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics

[4]DRO-Diesel Range Organics

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]na - Not Analyzed

Data Reports

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#: 138898 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-2
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 08:00

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)	4870	mg/Kg	50	<50	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	4290	mg/Kg	50	<50	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/04/03	8260b	---	---	---	---	---
Benzene	166	µg/Kg	20	<20	02/04/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	3850	µg/Kg	20	<20	02/04/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	17100	µg/Kg	5000	<5000	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	2540	µg/Kg	20	<20	02/04/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	2130	µg/Kg	20	<20	02/04/03	8260b	---	1.2	88.4	81	78.3

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.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138898
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH2-2	**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	93.4	65-115	---
Toluene-d8	8260b	116	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 138898 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-2

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#: 138899 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-5
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **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)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138899
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH2-5	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	40.8	50-150	X
p-Terphenyl	8015 mod.	52.6	50-150	---
1,2-Dichloroethane-d4	8260b	79.7	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#: 138899 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-5

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.
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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
Nitrobenzene-d5	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices
Nitrobenzene-d5	X	(sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.

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#: 138900 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-10
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **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)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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:** 2003-00007 Central 6" Batt. Line **Sample Name:** SEC6BL12903BH2-10	**Report#/Lab ID#:** 138900 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	52.1	50-150	---
p-Terphenyl	8015 mod.	69.8	50-150	---
1,2-Dichloroethane-d4	8260b	96	65-115	---
Toluene-d8	8260b	97.6	50-120	---

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

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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#: 138901 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH2-15
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 09:35

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	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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.

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00007 Central 6" Batt. Line **Sample Name:** SEC6BL12903BH2-15	**Report#/Lab ID#:** 138901 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	53.9	50-150	---
p-Terphenyl	8015 mod.	68.8	50-150	---
1,2-Dichloroethane-d4	8260b	91.9	65-115	---
Toluene-d8	8260b	113	50-120	---

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

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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#: 138902 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-2
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 10:20

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)	3040	mg/Kg	50	<50	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	1640	mg/Kg	50	<50	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/04/03	8260b	---	---	---	---	---
Benzene	44	µg/Kg	20	<20	02/04/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	2000	µg/Kg	20	<20	02/04/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	8220	µg/Kg	5000	<5000	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	1320	µg/Kg	20	<20	02/04/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	939	µg/Kg	20	<20	02/04/03	8260b	---	1.2	88.4	81	78.3

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.

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00007 Central 6" Batt. Line **Sample Name:** SEC6BL12903BH3-2	**Report#/Lab ID#:** 138902 **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	90.5	65-115	---
Toluene-d8	8260b	114	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 138902 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-2

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 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: _____

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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#: 138903 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-5
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 11:00

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)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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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Client: Environmental Plus, Inc.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138903
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH3-5	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	53.8	50-150	---
p-Terphenyl	8015 mod.	68.9	50-150	---
1,2-Dichloroethane-d4	8260b	76.9	65-115	---
Toluene-d8	8260b	97.5	50-120	---

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

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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#: 138904 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-10
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 11:20

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	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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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Client: Environmental Plus, Inc.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138904
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH3-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	55.5	50-150	---
p-Terphenyl	8015 mod.	72.9	50-150	---
1,2-Dichloroethane-d4	8260b	87.5	65-115	---
Toluene-d8	8260b	101	50-120	---

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

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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#: 138905 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-15
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 12:00

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)	<5	mg/Kg	5	<5	02/11/03	8015 mod.	J	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/11/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

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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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00007 Central 6" Batt. Line **Sample Name:** SEC6BL12903BH3-15	**Report#/Lab ID#:** 138905 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	52.2	50-150	---
p-Terphenyl	8015 mod.	62.2	50-150	---
1,2-Dichloroethane-d4	8260b	91.6	65-115	---
Toluene-d8	8260b	113	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 138905 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH3-15

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.

Notes: _____

ANALYSYS INC

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
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Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138906 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH1-2
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 13:15

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)	4490	mg/Kg	50	<50	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	4830	mg/Kg	50	<50	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/04/03	8260b	---	---	---	---	---
Benzene	209	µg/Kg	20	<20	02/04/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	5080	µg/Kg	20	<20	02/04/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	11900	µg/Kg	20	<20	02/04/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	3260	µg/Kg	20	<20	02/04/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	3570	µg/Kg	20	<20	02/04/03	8260b	---	1.2	88.4	81	78.3

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.

Exceptions Report:

Report #/Lab ID#: 138906 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH1-2

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 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:

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:** 2003-00007 Central 6" Batt. Line **Sample Name:** SEC6BL12903BH1-2	**Report#/Lab ID#:** 138906 **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	99.9	65-115	---
Toluene-d8	8260b	81	50-120	---

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

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#: 138907 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Bau. Line
Sample Name: SEC6BL12903BH1-5
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 13:30

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)	2870	mg/Kg	50	<50	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	4060	mg/Kg	50	<50	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/04/03	8260b	---	---	---	---	---
Benzene	382	µg/Kg	20	<20	02/04/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	5190	µg/Kg	20	<20	02/04/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	12900	µg/Kg	20	<20	02/04/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	3370	µg/Kg	20	<20	02/04/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	4600	µg/Kg	20	<20	02/04/03	8260b	---	1.2	88.4	81	78.3

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.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138907
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH1-5	**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	84.4	65-115	---
Toluene-d8	8260b	98	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 138907 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH1-5

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

3310 Montopolis Drive, Austin, TX 78741 &
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#: 138908 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Bat. Line
Sample Name: EC6BL12903BH1-10
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:55
Date Sampled: 01/29/2003 **Time:** 13:50

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	6.12	mg/Kg	5	<5	02/07/03	8015 mod.	---	9.6	79.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.6
Volatile organics-8260b/BTEX	---		---		02/04/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/04/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/04/03	8260b	---	0.2	100	97.2	79.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/04/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/04/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/04/03	8260b	---	1.2	83.4	81	78.3

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 exceeds 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.

ANALYSIS 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.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138908
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH1-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	50.4	50-150	---
p-Terphenyl	8015 mod.	64	50-150	---
1,2-Dichloroethane-d4	8260b	84.2	65-115	---
Toluene-d8	8260b	98.5	50-120	---

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

ANALYSYS INC

3617 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#: 138909 **Report Date:** 02/13/03
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC-BL12903BH3-15
Sample Matrix: soil
Date Received: 01/31/2003 **Time:** 09:56
Date Sampled: 01/29/2003 **Time:** 14:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	02/07/03	8015 mod.		9.6	75.6	98	88.4
TPH by GC (as diesel-ext)	---	---	---	---	02/05/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	02/07/03	8015 mod.	---	3.4	82.5	93	78.8
Volatile organics-8260b/BTEX	---		---		02/03/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	2.2	82.4	81.6	81.2
Ethylbenzene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.2	102	97.2	75.6
m,p-Xylenes	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.7	101.4	96.5	77.8
o-Xylene	<20	µg/Kg	20	<20	02/03/03	8260b	---	0.5	98.1	94.1	84.5
Toluene	<20	µg/Kg	20	<20	02/03/03	8260b	---	1.2	88.4	81	78.3

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSIS 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.	**Project ID:** 2003-00007 Central 6" Batt. Line	**Report#/Lab ID#:** 138909
Attn: Pat McCasland	**Sample Name:** SEC6BL12903BH1-15	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	50.6	50-150	---
p-Terphenyl	8015 mod.	65	50-150	---
1,2-Dichloroethane-d4	8260b	83.3	65-115	---
Toluene-d8	8260b	104	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 138909 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007 Central 6" Batt. Line
Sample Name: SEC6BL12903BH1-15

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.

Notes: _____

N-OF-CUSTODY

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

ports To:

y Name Environmental Plus
2100 Ave O
ate State N.M Zip 88231
Pat McCasland
505-394-3481 Fax 505-394-2601

Bill to (if different):

Company Name Exxt Energy
Address 5805 Hwy 80
City Midland State Tx Zip 79701
ATTN: Frank Hernandez
Phone 915-638-3799 Fax

itus (must be confirmed with lab mgr.):

Name/PO#: 2003-00007 Sampler: Bradley Blan
Central 6" Bath. Line

Analyses Requested (1)
Please attach explanatory information as required

ient Sample No. ption/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021b	TPH 8015m	Comments
E.C6BL12903BH2-2	1-29	8:00	1	X			138898	X	X	
E.C6BL12903BH2-5	1-29-03	8:30	1	X			138899	X	X	
C6BL12903BH2-10	1-29-03	9:00	1	X			138900	X	X	
E.C6BL12903BH2-15	1-29-03	9:35	1	X			138901	X	X	
E.C6BL12903BH3-2	1-29-03	10:20	1	X			138902	X	X	
E.C6BL12903BH3-5	1-29-03	11:00	1	X			138903	X	X	
E.C6BL12903BH3-10	1-29-03	11:20	1	X			138904	X	X	
C6BL12903BH3-15	1-29-03	12:00	1	X			138905	X	X	
C6BL12903BH1-2	1-29-03	1:15	1	X			138906	X	X	
E.C6BL12903BH1-5	1-29-03	1:30	1	X			138907	X	X	

ecifically 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 /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 ist at ASI's option. Specific compound lists must be supplied for all GC procedures.

T = 2.2°C

Sample Relinquished By				Sample Received By			
ne	Affiliation	Date	Time	Name	Affiliation	Date	Time
[illegible]	Environmental Plus	1-29-03		Melanie Humphrey	ASI	1/31/03	0955

ng 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#: 139832 **Report Date:** 03/04/03
Project ID: 2003-00007
Sample Name: WEC622103MW
Sample Matrix: water
Date Received: 02/26/2003 **Time:** 16:42
Date Sampled: 02/21/2003 **Time:** 15:00

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]
Volatile organics-8260b/BTEX	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	1.4	71.4	81.2	70.5
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	1	110	100.2	106.3
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	J	1.5	109.2	99.9	107.7
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	4.3	106	96.8	109.7
Toluene	<1	µg/L	1	<1	02/28/03	8260b	J	7.9	91.2	86.7	83.5

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.	**Project ID:** 2003-00007	**Report#/Lab ID#:** 139832
Attn: Pat McCasland	**Sample Name:** WEC622103MW	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.1	80-120	---
Toluene-d8	8260b	99.2	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 139832 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00007
Sample Name: WEC622103MW

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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes: _____

Reports To:
Company Name Environmental Plus
Address 2100 Ave O
City Eunice State NM Zip 88231
ATTN: Pat McCasland
Phone 505-394-3481 Fax 505-394-2601

Bill to (if different):
Company Name Exxon Energy
Address 5805 Hwy 80
City Midland State TX Zip 79701
ATTN: Frank Hernandez
Phone 915-638-3799 Fax

4221 Freidrich Lane, Suite 190, Austin, TX 7
(512) 444-5896

Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-00007 Sampler:

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	Comments
WEC622103MW1	2-24-03	3:00	2		X		139832	X	

is 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 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 SL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T=4.8°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
[redacted]	Environmental Plus			Melanie Humphrey	ASI	2/26/03	16:42

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

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Project:	Central 6" Batt.
PO#:	2003-00007
Order#:	G0306382
Report Date:	05/06/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702
687-2713

Order#: G0306382
Project: 2003-00007
Project Name: Central 6" Batt.
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306382-01	SEC6NFPESW	SOIL	4/29/03 14:15	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					
0306382-02	SEC6NFPWSW	SOIL	4/29/03 14:20	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					
0306382-03	SEC6NFPESW	SOIL	4/29/03 14:25	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					
0306382-04	SEC6NFPWSW	SOIL	4/29/03 14:30	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					
0306382-05	SEC6NFPBH	SOIL	4/29/03 14:35	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					
0306382-06	SEC6NFPBH	SOIL	4/29/03 14:40	4/30/03 12:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 4 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306382
Project:	2003-00007
Project Name:	Central 6" Batt.
Location:	None Given

Lab ID: 0306382-01
Sample ID: SEC6NFPESW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	90%	70	130
1-Chlorooctadecane	78%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005396-02		5/1/03 19:16	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	82%	80	120
Bromofluorobenzene	103%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306382
Project:	2003-00007
Project Name:	Central 6" Batt.
Location:	None Given

Lab ID: 0306382-02
Sample ID: SEC6NFPWSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	94%	70	130
1-Chlorooctadecane	82%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005396-02		5/1/03 19:35	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	105%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306382
Project: 2003-00007
Project Name: Central 6" Batt.
Location: None Given

Lab ID: 0306382-03
Sample ID: SEC6NFPESW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	94%	70	130
1-Chlorooctadecane	81%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005396-02		5/1/03 19:54	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	85%	80	120
Bromofluorobenzene	109%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306382
Project:	2003-00007
Project Name:	Central 6" Batt.
Location:	None Given

Lab ID: 0306382-04
Sample ID: SEC6NFPWSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	11.9	10.0
TOTAL, C6-C35	11.9	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	96%	70	130
1-Chlorooctadecane	85%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005435-02		5/1/03 21:11	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.048	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	81%	80	120
Bromofluorobenzene	93%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306382
Project: 2003-00007
Project Name: Central 6" Batt.
Location: None Given

Lab ID: 0306382-05
Sample ID: SEC6NFPBH

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**42.5**	10.0
TOTAL, C6-C35	**42.5**	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**103%**	**70**	**130**
1-Chlorooctadecane	**88%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005435-02		5/1/03 21:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**80%**	**80**	**120**
Bromofluorobenzene	**93%**	**80**	**120**

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306382
Project:	2003-00007
Project Name:	Central 6" Batt.
Location:	None Given

Lab ID: 0306382-06
Sample ID: SEC6NFPBH

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/30/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	17.0	10.0
TOTAL, C6-C35	17.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	94%	70	130
1-Chlorooctadecane	82%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005435-02		5/2/03 14:42	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	91%	80	120
Bromofluorobenzene	101%	80	120

Approval: Raland K Tuttle 5-06-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306382

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005388-02			<10.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0306383-01	0	952	1023	107.5%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0306383-01	0	952	983	103.3%	4.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005388-05		1000	790	79.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306382

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005396-02			<0.025		
Benzene-mg/kg	0005435-02			<0.025		
Toluene-mg/kg	0005396-02			<0.025		
Toluene-mg/kg	0005435-02			<0.025		
Ethylbenzene-mg/kg	0005396-02			<0.025		
Ethylbenzene-mg/kg	0005435-02			<0.025		
p/m-Xylene-mg/kg	0005396-02			<0.025		
p/m-Xylene-mg/kg	0005435-02			<0.025		
o-Xylene-mg/kg	0005396-02			<0.025		
o-Xylene-mg/kg	0005435-02			<0.025		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005396-03		0.1	0.098	98.%	
Toluene-mg/kg	0005396-03		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0005396-03		0.1	0.109	109.%	
p/m-Xylene-mg/kg	0005396-03		0.2	0.230	115.%	
o-Xylene-mg/kg	0005396-03		0.1	0.105	105.%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005396-04		0.1	0.101	101.%	3.%
Toluene-mg/kg	0005396-04		0.1	0.105	105.%	4.9%
Ethylbenzene-mg/kg	0005396-04		0.1	0.110	110.%	0.9%
p/m-Xylene-mg/kg	0005396-04		0.2	0.237	118.5%	3.%
o-Xylene-mg/kg	0005396-04		0.1	0.110	110.%	4.7%
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0306391-01	0	0.1	0.099	99.%	
Toluene-mg/kg	0306391-01	0	0.1	0.102	102.%	
Ethylbenzene-mg/kg	0306391-01	0	0.1	0.113	113.%	
p/m-Xylene-mg/kg	0306391-01	0	0.2	0.237	118.5%	
o-Xylene-mg/kg	0306391-01	0	0.1	0.107	107.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0306391-01	0	0.1	0.094	94.%	5.2%
Toluene-mg/kg	0306391-01	0	0.1	0.097	97.%	5.%
Ethylbenzene-mg/kg	0306391-01	0	0.1	0.107	107.%	5.5%
p/m-Xylene-mg/kg	0306391-01	0	0.2	0.225	112.5%	5.2%
o-Xylene-mg/kg	0306391-01	0	0.1	0.102	102.%	4.8%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005396-05		0.1	0.088	88.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306382

SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005435-05		0.1	0.095	95.%	
Toluene-mg/kg	0005396-05		0.1	0.091	91.%	
Toluene-mg/kg	0005435-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0005396-05		0.1	0.099	99.%	
Ethylbenzene-mg/kg	0005435-05		0.1	0.109	109.%	
p/m-Xylene-mg/kg	0005396-05		0.2	0.208	104.%	
p/m-Xylene-mg/kg	0005435-05		0.2	0.229	114.5%	
o-Xylene-mg/kg	0005396-05		0.1	0.096	96.%	
o-Xylene-mg/kg	0005435-05		0.1	0.103	103.%	

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800
Odessa Texas 79763 Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ

Company Name: EOTT ENERGY PIPELINE

Company Address: 5805 E. HIGHWAY 80

City/State/Zip: MIDLAND TX 79701

Telephone No: 915-556-0190

Sampler Signature: *Cody Miller*

Project Name: CENTRAL 6" BATT.

Project #: 2003-00007

Project Loc:

PO#:

0305082		Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	Reactivity	Corrosivity	Ignitibility				RUSH TAT	Standard TAT
																Analyze For: TCLP / TOTAL															
01	SEC6NFPESW	4/29/2003	215	1	X									X					X				X								
02	SEC6NFPWSW	4/29/2003	220	1	X									X					X				X								
03	SEC6SFPESW	4/29/2003	225	1	X									X					X				X								
04	SEC6SFPWSW	4/29/2003	230	1	X									X					X				X								
05	SEC6NFPBH	4/29/2003	235	1	X									X					X				X								
06	SEC6SFPBH	4/29/2003	240	1	X									X					X				X								

Special Instructions

FAX RESULTS TO PAT MCCASLAND

Relinquished:	Date	Time	Received by:	Date	Time
Cody Miller	4/29/2003				
Relinquished:	Date	Time	Received by: *[illegible signature]*	4-30-03	1230

Sample Containers Inta Y N

Temperature Upon Request

Laboratory Comments: *ice 4°C*

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Project:	Central Batt. 6"
PO#:	2003-0007
Order#:	G0306459
Report Date:	05/14/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702
687-2713

Order#: G0306459
Project: 2003-0007
Project Name: Central Batt. 6"
Location: none given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306459-01	SECB65703NSW	SOIL	5/7/03 8:30	5/9/03 16:30	4 oz jars	ice
	Lab Testing:	**Rejected:** No		**Temp:** 2.5 C		
	8015M					
	8021B/5030 BTEX					
0306459-02	SECB65703SSW	SOIL	5/7/03 8:35	5/9/03 16:30	4 oz jars	ice
	Lab Testing:	**Rejected:** No		**Temp:** 2.5 C		
	8015M					
	8021B/5030 BTEX					
0306459-03	SECB65703ESW	SOIL	5/7/03 8:40	5/9/03 16:30	4 oz jars	ice
	Lab Testing:	**Rejected:** No		**Temp:** 2.5 C		
	8015M					
	8021B/5030 BTEX					
0306459-04	SECB65703WSW	SOIL	5/7/03 8:45	5/9/03 16:30	4 oz jars	ice
	Lab Testing:	**Rejected:** No		**Temp:** 2.5 C		
	8015M					
	8021B/5030 BTEX					
0306459-05	SECB65703BH	SOIL	5/7/03 8:50	5/9/03 16:30	4 oz jars	ice
	Lab Testing:	**Rejected:** No		**Temp:** 2.5 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306459
Project: 2003-0007
Project Name: Central Batt. 6"
Location: none given

Lab ID: 0306459-01
Sample ID: SECB65703NSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	100	10.0
TOTAL, C6-C35	100	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	106%	70	130
1-Chlorooctadecane	93%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005518-02		5/13/03 12:51	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.030	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	88%	80	120
Bromofluorobenzene	90%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306459
Project: 2003-0007
Project Name: Central Batt. 6"
Location: none given

Lab ID: 0306459-02
Sample ID: SECB65703SSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	116%	70	130
1-Chlorooctadecane	101%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005518-02		5/13/03 13:17	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	92%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306459
Project:	2003-0007
Project Name:	Central Batt. 6"
Location:	none given

Lab ID: 0306459-03
Sample ID: SECB65703ESW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**15.3**	10.0
TOTAL, C6-C35	**15.3**	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**129%**	**70**	**130**
1-Chlorooctadecane	**119%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005518-02		5/13/03 14:23	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**88%**	**80**	**120**
Bromofluorobenzene	**97%**	**80**	**120**

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#:	G0306459
Project:	2003-0007
Project Name:	Central Batt. 6"
Location:	none given

Lab ID: 0306459-04
Sample ID: SECB65703WSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	74.5	10.0
DRO, >C12-C35	369	10.0
TOTAL, C6-C35	444	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	128%	70	130
1-Chlorooctadecane	112%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005518-02		5/13/03 15:35	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.081	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	83%	80	120
Bromofluorobenzene	107%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306459
Project: 2003-0007
Project Name: Central Batt. 6"
Location: none given

Lab ID: 0306459-05
Sample ID: SECB65703BH

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**13.8**	10.0
DRO, >C12-C35	**114**	10.0
TOTAL, C6-C35	**128**	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**130%**	**70**	**130**
1-Chlorooctadecane	**117%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005518-02		5/13/03 15:57	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**90%**	**80**	**120**
Bromofluorobenzene	**98%**	**80**	**120**

Approval: Raland K Tuttle 5-14-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306459

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005491-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005491-03		952	968	101.7%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005491-04		952	1025	107.7%	5.7%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005491-05		1000	979	97.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306459

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005518-02			<0.025		
Toluene-mg/kg	0005518-02			<0.025		
Ethylbenzene-mg/kg	0005518-02			<0.025		
p/m-Xylene-mg/kg	0005518-02			<0.025		
o-Xylene-mg/kg	0005518-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306459-03	0	0.1	0.091	91.%	
Toluene-mg/kg	0306459-03	0	0.1	0.091	91.%	
Ethylbenzene-mg/kg	0306459-03	0	0.1	0.091	91.%	
p/m-Xylene-mg/kg	0306459-03	0	0.2	0.189	94.5%	
o-Xylene-mg/kg	0306459-03	0	0.1	0.090	90.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306459-03	0	0.1	0.096	96.%	5.3%
Toluene-mg/kg	0306459-03	0	0.1	0.094	94.%	3.2%
Ethylbenzene-mg/kg	0306459-03	0	0.1	0.093	93.%	2.2%
p/m-Xylene-mg/kg	0306459-03	0	0.2	0.190	95.%	0.5%
o-Xylene-mg/kg	0306459-03	0	0.1	0.089	89.%	1.1%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0005518-05		0.1	0.105	105.%	
Toluene-mg/kg	0005518-05		0.1	0.103	103.%	
Ethylbenzene-mg/kg	0005518-05		0.1	0.096	96.%	
p/m-Xylene-mg/kg	0005518-05		0.2	0.197	98.5%	
o-Xylene-mg/kg	0005518-05		0.1	0.090	90.%	

Environmental Labs of Texas

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name	Environmental Plus, Inc.
EPI Project Manager	Pat McCasland
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	EOTT Energy Co.
Project Name (Inv. Ref)	Central Batt. 6" 2003-0007
Project Location	
EPI Sampler Name	Cody Miller

Bill To: eott energy
PO Box 1660, Midland, TX 79701

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl⁻)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>					
0304459																										
01	SECB65703NSW	C	1			X					X		5/7/2003	8:30	X	X										
02	SECB65703SSW	C	1			X					X		5/7/2003	8:35	X	X										
03	SECB65703ESW	C	1			X					X		5/7/2003	8:40	X	X										
04	SECB65703WSW	C	1			X					X		5/7/2003	8:45	X	X										
05	SECB65703BH	C	1			X					X		5/7/2003	8:50	X	X										

Sampler Relinquished: Cody Miller	Date 5/7/03 Time	Received By: Matt Coy	Fax Results To ~~John Good~~ 505-394-2601
Relinquished by: Matt Coy	Date 5-09-03 Time 1630	Received By: (lab staff) [signature]	REMARKS: Pat McCasland Ice 2.5°C
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By:	

OTHER ANALYSES	
	1
	2
	3
	4
	5
	6
	7
	8
	9
	10

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Project:	Central Battery 6"
PO#:	2003-00007
Order#:	G0306540
Report Date:	05/22/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702
687-2713

Order#: G0306540
Project:
Project Name: Central Battery 6"
Location:

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306540-01	SECB651903WSW	SOIL	5/19/03 15:00	5/20/03 12:15	4 oz Glass	Ice

Lab Testing:
8015M
8021B/5030 BTEX

Rejected: No **Temp:** 1.5 C

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306540
Project:
Project Name: Central Battery 6"
Location:

Lab ID: 0306540-01
Sample ID: SECB651903WSW

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/20/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	111%	70	130
1-Chlorooctadecane	87%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005613-02		5/21/03 21:48	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	111%	80	120

Approval: Raland K Tuttle 5-22-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306540

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005596-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005596-03		952	726	76.3%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005596-04		952	748	78.6%	3.%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005596-05		1000	857	85.7%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306540

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005613-02			<0.025		
Toluene-mg/kg	0005613-02			<0.025		
Ethylbenzene-mg/kg	0005613-02			<0.025		
p/m-Xylene-mg/kg	0005613-02			<0.025		
o-Xylene-mg/kg	0005613-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306546-01	0	0.1	0.103	103.%	
Toluene-mg/kg	0306546-01	0	0.1	0.101	101.%	
Ethylbenzene-mg/kg	0306546-01	0	0.1	0.096	96.%	
p/m-Xylene-mg/kg	0306546-01	0	0.2	0.198	99.%	
o-Xylene-mg/kg	0306546-01	0	0.1	0.091	91.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306546-01	0	0.1	0.110	110.%	6.6%
Toluene-mg/kg	0306546-01	0	0.1	0.110	110.%	8.5%
Ethylbenzene-mg/kg	0306546-01	0	0.1	0.102	102.%	6.1%
p/m-Xylene-mg/kg	0306546-01	0	0.2	0.211	105.5%	6.4%
o-Xylene-mg/kg	0306546-01	0	0.1	0.098	98.%	7.4%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0005613-05		0.1	0.109	109.%	
Toluene-mg/kg	0005613-05		0.1	0.106	106.%	
Ethylbenzene-mg/kg	0005613-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg	0005613-05		0.2	0.203	101.5%	
o-Xylene-mg/kg	0005613-05		0.1	0.094	94.%	

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800
Odessa Texas 79763 Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ
Company Name: EOTT ENERGY PIPELINE
Company Address: 5805 E. HIGHWAY 80
City/State/Zip: MIDLAND TX 79701
Telephone No: 713-253-7006
Sampler Signature: Bill Trull

Project Name: Central Battery 6"
Project #: 2003-00007
Project Loc:
PO#:

Lab I.D.	Sample I.D.	Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Analyze For: TCLP / TOTAL: TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH8015MGRODRO	Metals	Volatiles	Semivolatiles	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiabilty				RUSH TAT	Standard TAT
28430- 01	SECB651903WSW	05/19/2003	3:00	1	X									X				X	X				X								

Special Instructions

FAX RESULTS TO PAT McCASLAND ASAP

Sample Containers Intact: Y (N) N
Temperature Upon Request
Laboratory Comments: 1.5°C

Relinquished:	Date	Time	Received by:	Date	Time
Bill Trull	5/20/03	6:00	C Miller		
C Miller			Cindy Keene	5/20/03	12:15

Run BTEX + 8015 as per Frank.
5/20 rush

ATTACHMENT IV: AREA WATER INFORMATION

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 19S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic
◉ All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 11/26/2004

							(Depth Water in Feet)		
Bsn	**Tws**	**Rng**	**Sec**	**Zone**	**X**	**Y**	**Wells**	**Min**	**Max**	**Avg**
L	19S	37E	01				4	32	35	34
L	19S	37E	03				3	40	42	41
L	19S	37E	04				7	23	65	39
L	19S	37E	06				2	50	50	50
L	19S	37E	07				6	35	50	43
L	19S	37E	08				2	42	42	42
L	19S	37E	10				8	26	35	33
L	19S	37E	11				1	22	22	22
L	19S	37E	12				2	63	63	63
L	19S	37E	13				2	27	65	46
L	19S	37E	14				2	20	20	20
L	19S	37E	15				6	44	50	46
L	19S	37E	16				5	20	45	39
L	19S	37E	17				1	65	65	65
L	19S	37E	18				2	35	70	53
L	19S	37E	19				3	40	52	48
L	19S	37E	21				8	22	47	33
L	19S	37E	22				4	35	40	38
L	19S	37E	24				2	48	48	48
L	19S	37E	27				3	18	35	29
L	19S	37E	28				3	30	31	30
L	19S	37E	29				8	18	22	20
L	19S	37E	30				9	20	23	20
L	19S	37E	31				2	20	27	24
L	19S	37E	32				6	25	35	29
L	19S	37E	33				20	13	43	32
L	19S	37E	34				5	20	25	22

Record Count: 126

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher 11/26/2004

ATTACHMENT V: SITE INFORMATION & METRICS FORM AND FINAL FORM C-141

Plains All American Pipeline Site Information and Metrics	Incident Date: Plains All American Pipeline	NMOCD Notified: 1-09-03 at 9:50 AM

SITE: **Central Battery 6" Line #1**	Assigned Site Reference #: **#2003-00007**
Company: Plains All American Pipeline	**NATIONAL RESPONSE CENTER - 800.424.8802**
Street Address: PO Box 1660	Notified Date/Time:
Mailing Address: 5805 East Highway 80	Notified by: Pat McCasland (EPI)
City, State, Zip: Midland, Texas 79702	Person Notified:
Representative: Camille Reynolds	NRC Report# :
Representative Telephone: 505.393.5611	
Telephone:	
Fluid volume released (bbls): 150 bbls	Recovered (bbls): 85 bbls
>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: Central Battery 6" Line #1	
Source of contamination: 6" Steel Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: New Mexico State Highway Department	
LSP Dimensions 322' north to south and 20' east to west	
LSP Area: 6,238 sqft. ft^2	
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32°36'34.88"N	
Longitude: 103°15'55.63"W	
Elevation above mean sea level: 3,560 'msl	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SE¼ of the SE¼	Unit Letter: P
Location- Section: 32	
Location- Township: T19S	
Location- Range: R37E	
Surface water body within 1000 ' radius of site: none	
Domestic water wells within 1000' radius of site: 5	
Agricultural water wells within 1000' radius of site: 1	
Public water supply wells within 1000' radius of site: none	
Public water supply wells within 1000' radius of site:	
Depth from land surface to ground water (DG) 28.81'bgs	
Depth of contamination (DC) – 15'bgs	
Depth to ground water (DG – DC = DtGW) - 10-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= 20*	*Surface Water Score= 0*
Site Rank (1+2+3) = 40		

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **Plains All American Pipeline**	Contact: **Camille Reynolds**
Address: **PO Box 1660, 5805 East Highway 80 Midland, Texas 79702**	Telephone No. **505.393.5611**
Facility Name **Central Battery 6" Line #1 #2003-00007**	Facility Type **6" Steel Pipeline**
Surface Owner: **New Mexico State Highway Dept.**	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: Lea
P	**32**	**T19S**	**R37E**					

Latitude: 32°36'34.88"N **Longitude:** 103°15'55.63"W

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **150 barrels**	Volume Recovered **85 barrels**
Source of Release **6" Steel Pipeline**	Date and Hour of Occurrence **1-09-03 at 7:00 AM**	Date and Hour of Discovery **1-09-03 at 9:00 AM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? **Pat McCasland (EPI)**	Date and Hour **1-09-03 at 9:50 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.* ***6" Steel Pipeline:*** **The cause of the leak was internal/external corrosion. 2,310 cubic yards of crude oil impacted soil was excavated and disposed of in the NMOCD permitted and approved C&C Landfarm and South Monument Surface Waste Management Facility.**

Describe Area Affected and Cleanup Action Taken.* ***6,238 sqft. 322' north to south and 20' east to west: On January 29, 2003, three soil borings were advanced and sampled. To ensure groundwater had not been impacted a temporary 4" PVC cased monitor well was installed and sampled. All soil impacted above the NMOCD remedial goals, i.e., TPH 8015m = ~100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.***

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: Pat McCasland EPI for C. Reynolds	**OIL CONSERVATION DIVISION**
Printed Name: Camille Reynolds	Approved by District Supervisor:
E-mail Address: CJReynolds@PAALP.com	Approval Date: / Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval: / Attached ☐
Date: Phone: 505.393.5611	

Attach Additional Sheets If Necessary