ABATEMENT PLAN

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

April 1, 2005

Ms. Camille Reynolds
Plains All American Pipeline
P.O. Box 3319
Midland, TX 79702

Re: Stage 1 and Stage 2 Abatement Plan
For the Hugh Gathering 090402
Dated March 2005
Ref. #2002-10235
NMOCD Ref. 1R-078

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the report shown above submitted to NMOCD, on behalf of Plains All American Pipeline (Plains), by Environmental Plus, Inc. The abatement plan pertains to a Plains pipeline leak located in Unit Letter M of Section 12, and Unit Letter P of Section 11, Township 21 South, Range 37 East, Lea County New Mexico.

After review, the NMOCD finds that it cannot accept this plan, as it does not adequately address remediation of the vadose zone that was contaminated by the spill. Please address this concern and re-submit the abatement plan by May 1, 2005.

If you have any questions, contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

Edwin E. Martin
Environmental Bureau

Cc: Larry Johnson, NMOCD, Hobbs
Pat McCasland, EPI
Jeff Dann, Plains

PLAINS PIPELINE

March 14, 2005

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

Re: Plains All American Pipeline Stage 1 and 2
Abatement Plan
Hugh Gathering Site
Sections 11 and 12, T21S, R37E
Lea County, New Mexico

Dear Mr. Martin:

Please find attached for your approval the Stage 1 and 2 Abatement Plan, dated March 2005, for the Hugh Gathering site located in Sections 11 and 12 of Township 21 South, and Range 37 East of Lea County, New Mexico. The Stage 1 and 2 Abatement Plan details site activities conducted to date and future activities for remediation and closure of the site.

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

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

Cc: Larry Johnson, NMOCD, Hobbs Office
Mr. James Bryant, 8204 Indigo Ct., Albuquerque, NM

Enclosure

PLAINS
ALL AMERICAN
PIPELINE, L.P.

STAGE 1 AND STAGE 2 ABATEMENT PLAN

FOR THE

IR-078

HUGH GATHERING 090402
Ref. # 2002-10235

Unit Letter-M (SW¼ of the SW¼) of Section 12
Latitude: 32°29'11.080"N/Longitude: 103°07'29.637"W
and
Unit Letter-P (SE¼ of the SE¼) of Section 11
Latitude: 32°29'11.007"N/Longitude: 103°07'33.864"W,

Township 21 South and Range 37 East

~3 miles northeast of
Eunice, Lea County, New Mexico

MARCH 2005

PREPARED BY

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

Distribution List

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Ed Martin	Environmental Manager	NMOCD	P.O. Box 6429, 1220 S. St. Francis Drive, Santa Fe, NM 87505	EMartin@state.nm.us
Larry Johnson	Environmental Engineer	NMOCD	1625 French Dr., Hobbs, NM 88231	LWJohnson@state.nm.us
James Bryant	Landowner (west side)		--	--
Bill & Paige McNeill	Landowners (east side)		--	--
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
file		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.

STANDARD OF CARE

Stage 1 and Stage 2 Abatement Plan

Hugh Gathering 090402
Ref. # 2002-10235

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 — March 15, 2005
Date

This report was reviewed by:

Iain Olness, PG — 15 March 2005
Date

Table of Contents

1.0 INTRODUCTION

Environmental Plus, Inc. (EPI), on behalf of Plains All American Pipeline (Plains), submits this Stage 1 and Stage 2 Abatement Plan to the New Mexico Oil Conservation Division for the investigation and remediation of the Plains All American Pipeline Hugh Gathering 090402 (Ref.#2002-10235). This plan will serve as a "Work Plan Supplement" as referenced in the "General Work Plan for Remediation of EOTT Energy Pipeline Spills, Leaks, and Releases in New Mexico" approved by the New Mexico Oil Conservation Division (NMOCD) on August 1, 2000.

2.0 "RESPONSIBLE PERSON"

The "Responsible Person" for the Stage 1 and Stage 2 Abatement Plans is:

Camille Reynolds
Plains All American Pipeline
3705 East Highway 158 (PO Box 3319)
Midland, Texas 79706 (79702)

3.0 STAGE 1 ABATEMENT PLAN

The release occurred on September 4, 2002. On September 12, 2002, during initial delineation of the vertical extent of crude oil impact, non-aqueous phase hydrocarbon was observed on the surface of the ground water at approximately 58-feet below ground surface ('bgs) in excess of the standards set forth in 20 NMAC 6.2.3103, i.e., "Non-aqueous phase liquid shall not be present floating atop or immersed within ground water, as can be reasonably measured." The NMOCD offices in Santa Fe and Hobbs, New Mexico were notified of the impact. This proposal identifies Stage 1 Abatement Plan objectives consistent with Rule 19 of the NMOCD regulations that will be used to develop the remediation strategies required for the Stage 2 Abatement Plan and are being submitted coincidently.

3.1 BACKGROUND

The site is located approximately 3-miles northeast of Eunice, New Mexico adjacent to NMSR 18 at a latitude of 32°29'11"N and a longitude of 103°07'33"W. The initial form C-141 submitted to the NMOCD on September 12, 2002 by EOTT Energy Pipeline (EOTT), the asset owner at that time (Plains All American Pipeline is the current owner), reported an estimated 50 barrels (bbls) of crude oil was released with no recovery. Because of the small diameter surface impact, the release was initially reported internally to be less than 1 bbl of crude oil; however, during replacement of the line, EOTT upgraded the release to 50 bbls. The leak was due to internal/external corrosion and occurred in a section of pipe inside the conduit under New Mexico State Road 18 (NMSR 18). Crude oil was reported to be coming from the conduit vents on the east and west sides of the highway, i.e., Unit Letter-M (UL-M) (SW¼ of the SW¼) of Section 12, Township 21 South (T21S) and Range 37 East (R37E) on property owned by William McNeill and UL-P (SE¼ of the SE¼) of Section 11, T21S, R37E on property owned by James A. Bryant. The pipeline section has been replaced approximately 168 cubic yards (yd^3) of impacted soil, excavated during replacement of the pipeline, has been disposed of in the Environmental Plus, Inc. (EPI) Landfarm.

The **east release** was delineated in September 2002 and characterized as not having impacted groundwater. The horizontal extent of soil impact appears to be conical in shape and extend laterally from the point of release approximately 25-feet. The vertical extent of soil impact was delineated to be 25-feet below ground surface ('bgs).

The **west release** delineation in September of 2002, determined that groundwater had been impacted and is the primary focus of the Stage 1 and 2 Abatement Plans. Soil impacts appear conical in shape in the area of the leak origin soil impacts and extend 58'bgs to the groundwater. Laterally within 10-feet of the leak origin the impacts extend to approximately 25'bgs and laterally from 10-feet to 30-feet from the leak origin soil impacts extend only to 10'bgs. Groundwater delineation efforts have installed 12 groundwater monitor wells, 11 on the site and 1 down gradient well east of NMSR 18. The dissolved phase impact has been delineated and crude oil recovery and groundwater monitoring has been ongoing under the purview of the NMOCD. The site soil and groundwater delineation information is discussed in Section 4.1 of the Stage 2 Abatement Plan.

3.2 Initial Spill Mitigation

Initial response to the release was to deactivate the pipeline and excavate the release areas. Once it was determined that the leak was inside the conduit, the decision was made to replace the section of pipe. The pipeline section was replaced the following day and placed back in service. Approximately 168 cubic yards (yd^3) of impacted soil, excavated during replacement of the pipeline, was disposed of at the Environmental Plus, Inc. (EPI) Landfarm.

3.3 Stage 1 Abatement Plan Objectives as per New Mexico Oil Conservation Division Regulation 19.E(3)

This plan, when implemented, will provide adequate information to characterize the hydrocarbon impact, i.e., horizontal and vertical extents, of the vadose zone and ground water and identify site-specific geologic and hydrologic metrics for this site. The Quality Assurance Plan included as Attachment III will guide implementation of critical protocols and ensure credibility and usability of all data and information. The primary objective of this investigation was to collect adequate information to bound the vertical and horizontal extent of crude oil contamination in the vadose zone and the areal distribution in the ground water underlying the site. The focus and scope were as follows:

- Designate "responsible person" relative to plan submittal
- Describe and map site, provide historical information including previous investigations
- Characterize Site;
    1. Defined Geology and Hydrogeology, i.e., Hydraulic Conductivity, Transmissivity, and Storativity;
    2. Determined vertical and horizontal extent and magnitude of vadose-zone and ground water contamination;
        a) Collect discrete soil samples with a sample probe from depths as necessary below ground surface (bgs) to determine vertical extent of hydrocarbon contamination;
        b) Screen all samples using a Photoionization Detector (PID) and record results;
        c) Analyze samples for total petroleum hydrocarbon (TPH^{8015m}), i.e., gasoline range organics (GRO) and diesel range organics (DRO) using EPA method 8015M and benzene, toluene, ethylbenzene, and m, p, & o xylenes (BTEX) using EPA method 8020;
        d) Future samples may be collected from the interval exhibiting the highest TPH^{8015m} concentrations for synthetic precipitate leaching procedure (SPLP) analyses for TPH^{8015m} and BTEX.
    3. Determined rate and direction of contaminant migration;
    4. Provided inventory of water wells inside and within one (1) mile from the perimeter of the three-dimensional body where the NMWQCC standards are exceeded;
    5. Provided location and number of wells actually or potentially affected by the pollution;

6. Defined surface-water hydrology;
7. Determined seasonal stream flow characteristics;
8. Determined ground water/surface water relationships; and
9. Determined the vertical and horizontal extent and magnitude of contamination and impacts to surface water and stream sediments.

- Establish Monitoring Program
  1. Sampling station locations
  2. Sampling frequencies
- Establish a Quality Assurance Plan consistent with 20 NMAC 6.3107.B and 20 NMAC 6.1 for all work pursuant to this abatement plan.
- Submit a schedule of Stage 1 abatement plan activities, i.e., submission of quarterly progress reports and the detailed final site investigation report.

3.3.1 Project Organization and Responsibility

Environmental Plus, Inc., Eunice, New Mexico (EPI) conducted the field investigation with Plains All American Pipeline personnel providing operational support and coordination. AnalySys, Inc. of Austin, Texas and Environmental Lab of Texas of Odessa, Texas performed the laboratory analyses and provided analytical reports.

3.3.2 Project Safety

Hazards that were encountered at the site included the following;

- Moving equipment
- Buried pipelines
- Rotary Equipment
- Highway ingress/egress
- Excavation
- Potential Hydrogen Sulfide Gas

Prior to drilling or excavation, NEW MEXICO ONE CALL was notified of activities, which provided a list of Companies they notified and a ONE CALL confirmation number. Employees and subcontractors were required to confirm current training in these hazards. Standard personal protective equipment included:

- Personal H_2S Monitor
- Hard-hat
- Steel Toed Boots/Shoes and gloves

3.3.3 Site Description

The site is located approximately three miles northeast of Eunice, New Mexico.

3.3.3.1 Historical Use

The area has been used historically for livestock grazing and access to oil/gas production facilities.

3.3.3.2 Legal Descriptions

The release surfaced on opposite sides of the four-lane NMSR 18 highway that runs north and south along the section line between Sections 12 and Section 11 of T21S R37E. The site is located approximately 3-miles northeast of Eunice, Lea County, New Mexico.

3.3.3.2.1 Release on the east side of NMSR 18

This portion of the site is located east of NMSR 18 in UL-M (SW¼ of the SW¼) of Section 12, T21S, R37E at a latitude of 32°29'11.080"N and at a longitude of 103°07'29.637"W on property owned by William McNeill.

3.3.3.2.2 Release on the west side of NMSR 18

This portion of the site is located west of NMSR 18 in UL-P (SE¼ of the SE¼) of Section 11, T21S, R37E at a latitude of 32°29'11.007"N and a longitude of 103°07'33.864"W on property owned by James A. Bryant.

3.3.3.3 Photographic documentation

Photographs are provided in Attachment II.

3.3.3.4 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of 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.

3.3.4 Environmental Media Characterization

Chemical parameters of the soil and ground water were characterized consistent with the New Mexico Oil Conservation Division (NMOCD) guidelines published in the following documents as applicable:

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

Acceptable thresholds for contaminants of concern (CoC), i.e., TPH and BTEX are determined based on the following;

- 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.
- Distance to Surface Water Body, i.e., horizontal distance to down gradient surface water bodies.

Site specific risk-based thresholds may be developed and proposed along with alternative remediation technologies as allowed by the NMOCD.

3.3.4.1 Area Ground Water Levels

According to 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), and the New Mexico Office of the State Engineer (NMOSE), the uppermost aquifer occurs in the area between 53-feet bgs and 100-feetbgs (reference the NMOSE Well Report in Attachment I). The site water level was measured to be approximately 58'bgs.

3.3.4.2 Water Well Inventory

The matrix below lists area water wells recorded by the New Mexico Office of the State Engineer and by the USGS. There are no wells recorded to be in section 11 or adjacent sections 2, 3, 10, 12, and 15 in T21S R37E. The topographical map included in Attachment I is annotated with the well locations.

Plains Hugh Gathering Area Water Wells							
Well No.#	Tws	Rng	Sec	Easting	Northing	Well	Water
CP 00137	21S	37E	13	676912	3595573		na
CP 00197	21S	37E	1	676660	3598390		na
CP 00212	21S	37E	14	675305	3595545		na

Shape	Point	Point	Point	Point	Point
Area	0.000	0.000	0.000	0.000	0.000
Perimeter	0.000	0.000	0.000	0.000	0.000
Water_wells#	4876	4981	4990	4954	5150
Water_wells-id	4876	4981	4990	4954	5150
Index_no	4876	4981	4990	4954	5150
Siteid	322801103073101	322901103071101	322909103070601	322849103080601	323025103062501
Latitude	322801	322901	322909	322849	323025
Longitud	1030731	1030711	1030706	1030806	1030625
Locname	11516	11490	05053	11492	12779
Altitude	3411	3437	3441	3399	3559
Use	H	U	S	S	U
Depth	85.00	100.00	0.00	48.00	90.00
Geo-unit	No Data	No Data	No Data	No Data	No Data
Waterlev	54.53	64.95	68.71	30.30	76.56
Wl-date	19651130	19680312	19910123	19910424	19910117
Wlingwsi	1	3	2	7	6
Sitestat	No Data	No Data	No Data	No Data	No Data
Discharg	0.00	0.00	0.00	0.00	0.00
Spc	0	0	0	0	0
Spc-date	No Data	No Data	No Data	No Data	No Data
Qwyear	1965	1966	No Data	1965	1970
Temp	0.0	0.0	0.0	0.0	0.0
Tempdate	No Data	No Data	No Data	No Data	No Data
Obs-well	No Data	No Data	No Data	No Data	No Data

Area water well levels
T21 R37E

3.3.4.3 Water Wells Actually or Potentially Affected by the Pollution

There are no water wells located within a 1,000-foot radius of the site.

3.3.4.4 Aquifer Recharge

According to 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), because of the relatively shallow occurrence of ground water in the area, suggests the upper most, unconfined aquifer is recharged from the surface.

3.3.4.5 Depth to Ground Water Calculation

The NMOCD requires the site be ranked to determine which soil TPH threshold will apply and defines depth to ground water as, "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water." The uppermost occurrence of ground water is approximately 58'bgs. The lowest most contamination occurs at the interface of the vadose zone and the water table. The calculated NMOCD depth to ground water is 0.0-feet.

3.3.4.6 Ground Water Gradient

According to the USGS (Nicholson & Clebsch), the upper most aquifer occurs as Quaternary alluvium and Ogallala formations with the flow gradient to the southeast.

3.3.4.7 Wellhead Protection Area

There are no water wells within a 1,000-foot radius of the site perimeter.

3.3.4.8 Distance to Nearest Surface Water Body

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

3.3.4.9 Seasonal Stream Flow Characteristics

There are no streams located within a 1,000-foot radius of the site.

3.3.5 Delineation of Nature, Extent, and Magnitude of Contamination (19NMAC15.A.19.E(3)(b)(i), (ii))

This section discusses the nature, extent, and magnitude of crude oil contamination of the east and west sides of the site separately.

3.3.5.1 Release on the east side of NMSR 18

The horizontal extent of soil impact appears to be conical in shape and extend laterally from the point of release approximately 25-feet. The vertical extent of soil impact was delineated to be 25-feet below ground surface ('bgs). The unexcavated soil impacted above the NMOCD CoC remedial goals is estimated to be approximately 578 yd^3.

3.3.5.1.1 Highly Contaminated/Saturated Soils

The soil boring at the leak origin delineated the vertical extent of crude oil impact to be 25'bgs. The highly contaminated/saturated soils have been disposed of off-site.

3.3.5.1.2 Unsaturated Contaminated Soils

The "in-situ" soil is impacted above the NMOCD guideline thresholds for the CoCs but is unsaturated.

3.3.5.1.3 Ground Water Contamination

The ground water in this portion of the site is not impacted.

3.3.5.1.4 Other Relevant Media Contamination

The remaining crude oil source term does not present a risk to any other environmental media.

3.3.5.1.5 Background (Up-gradient) Sample Results

The soil samples collected during installation of the up-gradient groundwater monitoring well MW6 were considered as representative background samples for the location as is evidenced by the non-detections for the CoCs in the soil and groundwater samples.

3.3.5.2 Release on the west side of NMSR 18

Soil impacts appear conical in shape in the area of the leak origin soil impacts and extend 58'bgs to the groundwater. Laterally within 10-feet of the leak origin the impacts extend to approximately 25'bgs and laterally from 10-feet to 30-feet from the leak origin soil impacts extend only to 10'bgs. The unexcavated impacted soil is estimated to be approximately 936 yd^3 of contaminated soil.

3.3.5.2.1 Highly Contaminated/Saturated Soils

The soil boring at the leak origin identified free product at the interface of the non-saturated vadose zone and the saturated zone. The highly contaminated/saturated soils down to 4'bgs have been disposed of off-site. The "smear zone" at 53 to 55'bgs, just above the interface of the vadose zone and water table, is saturated with phase separated hydrocarbon (PSH). ~~How much~~ ?

3.3.5.2.2 Unsaturated Contaminated Soils

The "in-situ" soil is impacted above the NMOCD guideline thresholds for the CoCs but is unsaturated. Soils from the surface down to 3 to 5 feet above the interface of the vadose zone and the water table, i.e., 53 to 55'bgs, are unsaturated.

3.3.5.2.3 Ground Water Contamination

The ground water at this site is impacted. Monitoring results from perimeter monitor wells, MW6, MW7, MW11, and MW12 have bounded the extents of the dissolved phase hydrocarbon plume. As of October 2004, dissolved phase hydrocarbons, i.e., benzene, toluene, ethylbenzene, and xylenes, have not been detected above the method detection limits in monitor wells MW6 located approximately 170-feet west northwest of the leak origin, MW7 approximately 157-feet south of the leak origin, MW11 located approximately 100-feet north of the leak origin, and MW12 located approximately 230-feet southeast of the leak origin. Interior monitor well MW5 is the only other well not impacted with PSH that is being monitored and has detectable dissolved phase hydrocarbon in excess of the NMWQCC benzene standard 0.01 mg/L at 0.312 mg/L (October 2004). Toluene, ethylbenzene, and xylenes were detected but not above the respective NMWQCC standards. In December 2004, the PSH pool on the water table had thicknesses ranging from 5.97-feet in monitor well MW4 approximately 30-feet north of the leak origin, 1.40-feet in monitor well MW3 approximately 75-feet south of the leak origin, 3.22-feet in monitor well MW9 approximately 50-feet southwest of the leak origin, and 1.34-feet in monitor well MW10 approximately 50 northwest of the leak origin. Delineation of the eastern extents of the PSH pool is precluded by roadway. A groundwater delineation map is included in Attachment I illustrating the estimated extents of the dissolved phase hydrocarbon plume and the estimated extents of the PSH pool.

3.3.5.2.4 Other Relevant Media Contamination

The remaining crude oil source term does not present a risk to any other environmental media.

3.3.5.2.5 Background (Up-gradient) Sample Results

The soil samples collected during installation of the up-gradient groundwater monitor well MW6 is a representative background sample location as is evidenced by the non-detections for the CoCs in the soil and groundwater samples.

3.3.6 Identification of Remedial Action Levels

Remedial goals for soil in this area are stratified with depth. The New Mexico Water Quality Control Commission (WQCC) ground water Maximum Contaminant Levels for the CoCs will apply to site ground water.

3.3.6.1 Site Ranking - Soil from the surface to 8'bgs

The soil from the surface to 8-feet bgs has the following score and site ranking;

Depth to Groundwater / >50' = 10
Wellhead Protection Area / <200' = 0
Distance to Surface Water Body / >200' = 0
Site Ranking = 10
Remedial Action Levels

- TPH – 1000 mg/Kg
- BTEX – 50 mg/Kg
- Benzene – 10 mg/Kg

3.3.6.2 Site Ranking - Soil from 8'bgs to 58'bgs

The soil from 8-feet bgs to 58-feet bgs has the following score and site ranking;

Depth to Groundwater / <50' = 20
Wellhead Protection Area / <200' = 0
Distance to Surface Water Body / >200' = 0
Site Ranking = 20
Remedial Action Levels

- TPH – 100 mg/Kg
- BTEX – 50 mg/Kg
- Benzene – 10 mg/Kg

3.3.6.3 Risk-Based Closure

The NMOCD Guidelines allow risk-based closure as an alternative to total removal of soils impacted above the site specific NMOCD remedial goals and is being proposed at this site. Risk-based closures rely on the installation of an oversized engineered barrier designed to isolate the subsurface crude oil source term, permanently cutting-off and eliminating the groundwater exposure pathway (vertical transport mechanism) for perpetuity, providing the barrier, whether of compacted clay or 20 mil polyethylene, remains intact, i.e. protected from human intrusion or erosion.

3.3.7 Proposed Borehole Sampling Locations

Additional boreholes are not anticipated.

3.3.8 Monitoring Program (19NMAC15.A.19.E(3)(c)

The Monitoring Program is a part of the Stage 2 Abatement Plan. The monitor wells installed at the site are sampled quarterly for the BTEX compounds and annually for Polynuclear Aromatic Hydrocarbons (PAHs). Product and water extracted/recovered volumes are routinely logged and reported along with disposition information. Data is summarized into an annual report

documenting progress and status and submitted to the Santa Fe and Hobbs offices of the NMOCD Environmental Bureau.

3.3.9 Schedule for Stage 1 Abatement Plan Implementation

The delineation efforts to date have collected sufficient information to satisfy the Stage 1 Abatement Plan requirements so that a viable Stage 2 Abatement Plan can be developed.

4.0 Stage 2 Abatement Plan

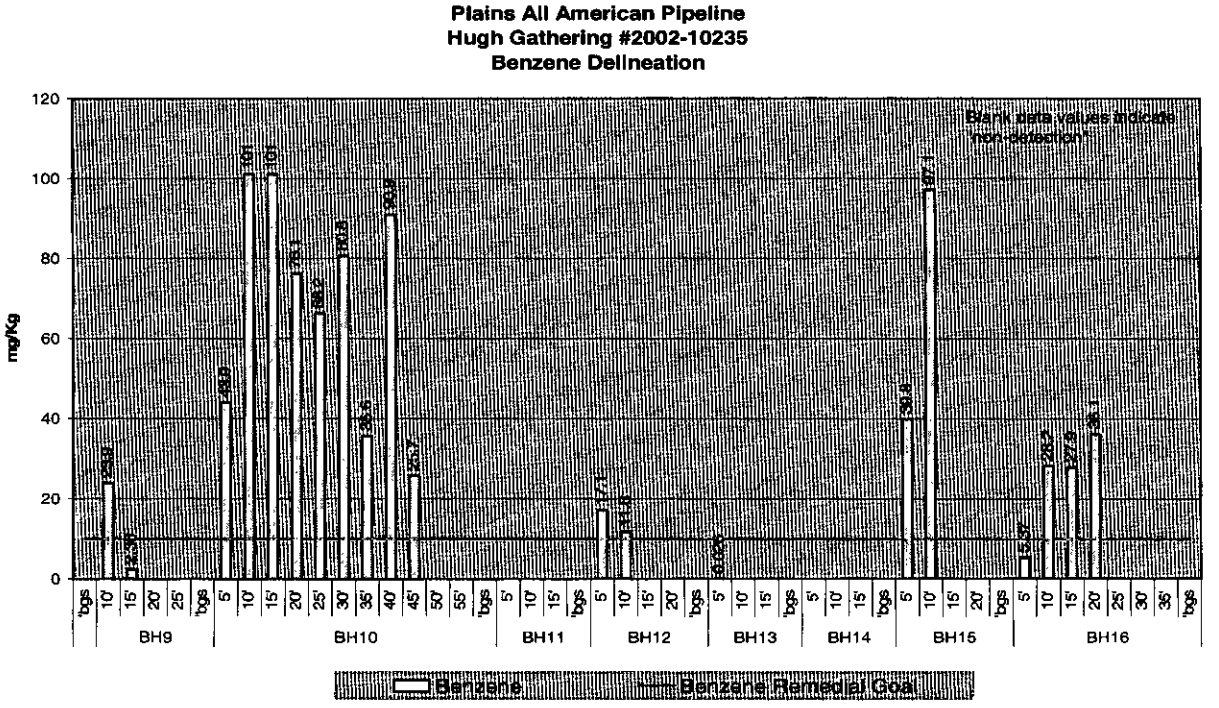
The objective of the Stage 2 Abatement Plan is to abate soil and ground water contamination to acceptable levels as delineated and identified during the Stage 1 Abatement Plan. The information collected to date provides information sufficient to select an abatement strategy and develop a plan for the site.

4.1 Soil Investigation and Proposed Remediation Strategy

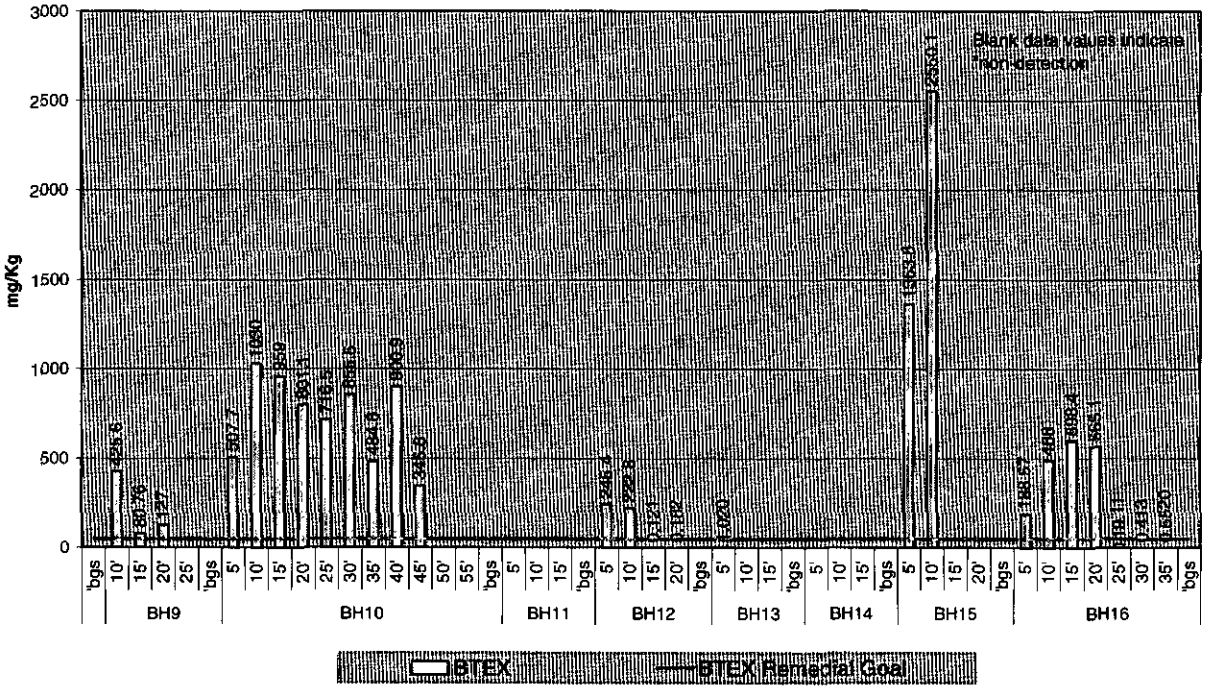
Based on information collected during the preliminary soil delineation phase of the project, Plains proposes to isolate the remaining crude oil source term by installing an engineered 2-foot thick clay barrier to prevent the vertical transport mechanism and eliminate the groundwater exposure pathway of the petroleum hydrocarbon source term.

4.1.1 Subsurface Soil Investigation – West side of NMSR 18

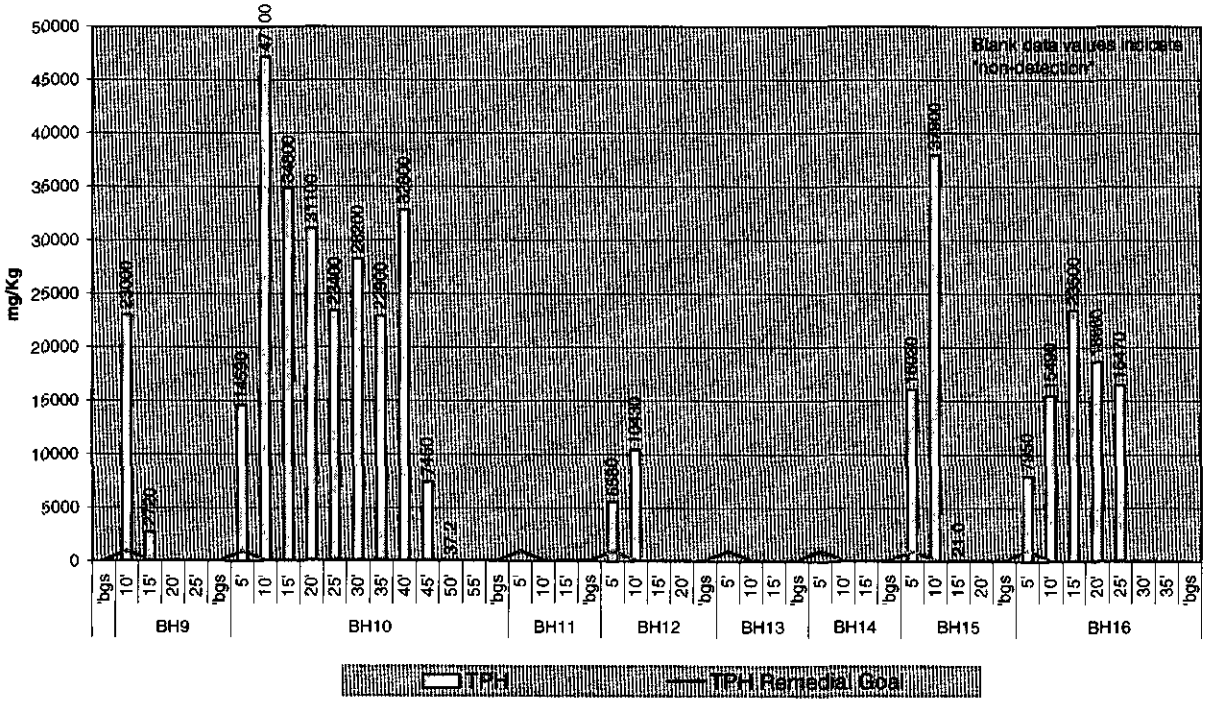
The preliminary investigation conducted in September 2002 advanced and sampled 8 boreholes, one of which was converted into a groundwater monitor well, i.e. BH10 was completed as monitor well MW2. The site borehole map is included in Attachment I. The analytical results are presented and summarized in Attachment III and illustrated below.



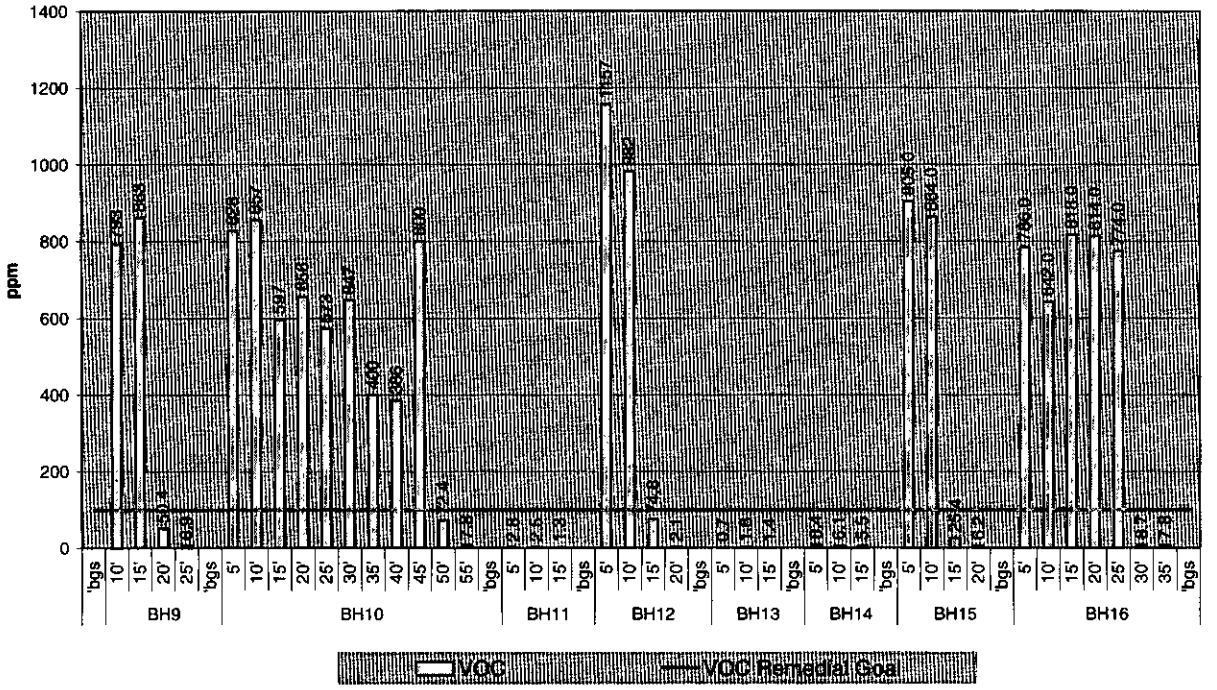
Plains All American Pipeline
Hugh Gathering #2002-10235
BTEX Delineation



Plains All American Pipeline
Hugh Gathering #2002-10235
Total Petroleum Hydrocarbon 8015M (TPH) Delineation



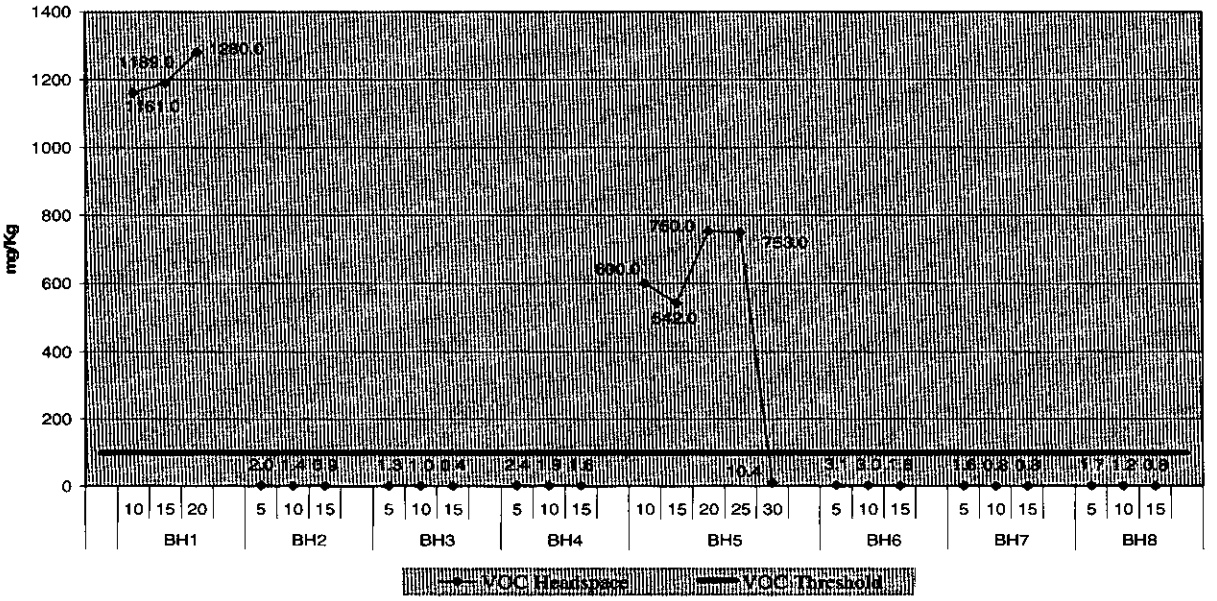
Plains All American Pipeline
Hugh Gathering #2002-10235
Volatile Organic Constituent (VOC) Delineation



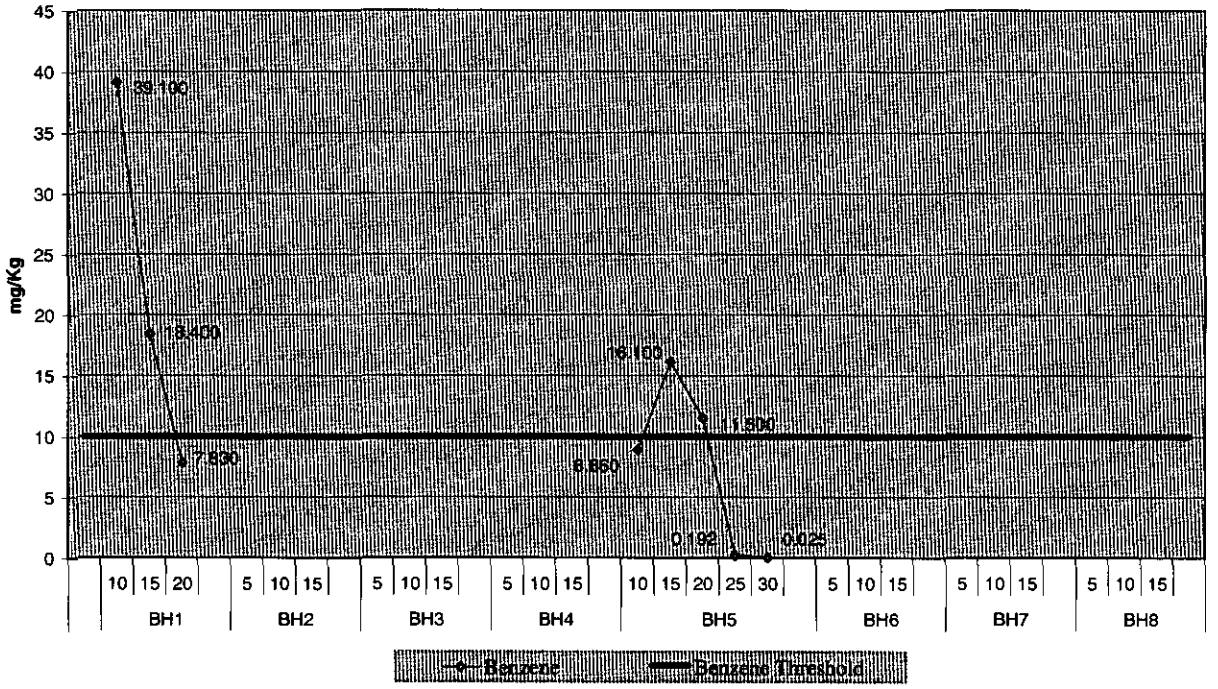
4.1.2 Subsurface Soil Investigation – East side of NMSR 18

The preliminary investigation conducted in September 2002 advanced and sampled 8 boreholes. The annotated site borehole map is included in Attachment I. The analytical results are presented and summarized in Attachment III and illustrated below.

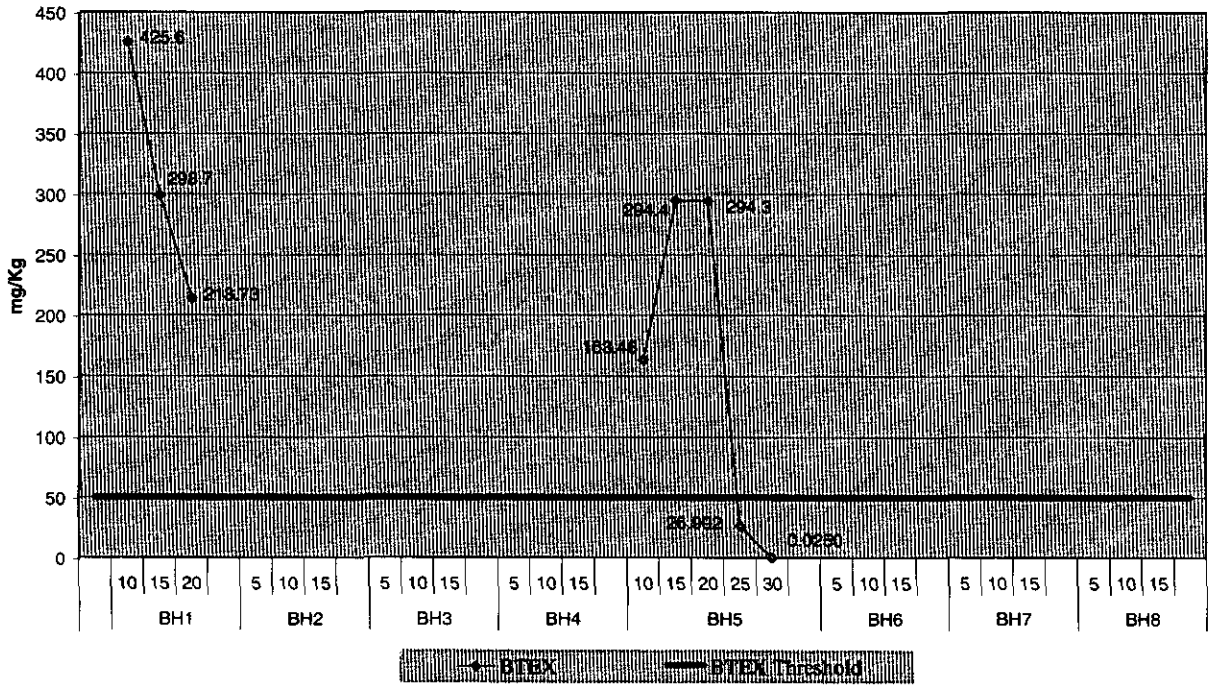
Plains All American Pipeline
Hugh Gathering #2002-10235 Eastside
VOC Headspace Delineation

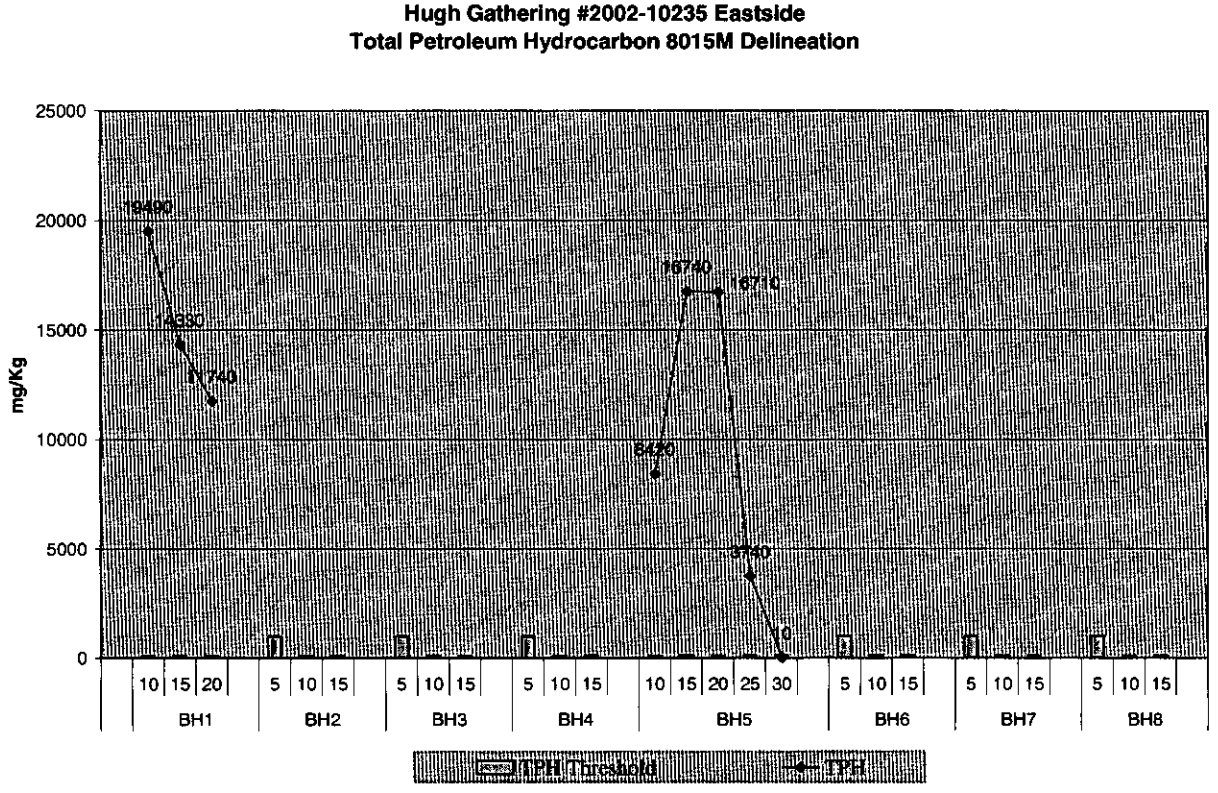


Plains All American Pipeline
Hugh Gathering #2002-10235 Eastside
Benzene Delineation



Plains All American Pipeline
Hugh Gathering #2002-10235 Eastside
BTEX Delineation





4.1.3 Remediation Strategy

Plains proposes dispose of impacted soils down to 10-feet bgs in the Plains Lea Station Landfarm and permanently isolate the remaining impacted soils above the NMOCD guidelines below 10'bgs with a 5-foot oversized compacted and engineer tested 2-foot thick clay barrier, relying on risk assessment conclusions to demonstrate adequate isolation.

4.1.3.1 East Release Excavation Preparation

Soil impacted above the NMOCD remedial action levels down to 10'bgs will be removed and disposed of in the Plains Lea Station Landfarm. The excavation will be expanded laterally to ensure at least a 5-foot clean buffer around the impacted floor. The estimated disposal volume should not exceed 300 yd^3, i.e., 25'x25'x10' = 232 yd^3 x 1.2 expansion factor = 278 yd^3. Grab samples of the sides and bottom of the excavation will be collected and analyzed to verify the 5-foot clean buffer.

4.1.3.2 West Release Excavation Preparation

Soil impacted above the NMOCD remedial action levels down to 10'bgs will be removed and disposed of in the Plains Lea Station Landfarm. The excavation will be expanded laterally to ensure at least a 5-foot clean buffer around the impacted floor. The estimated disposal volume should not exceed 750 yd^3, i.e., 40'x40'x10' = 593 yd^3 x 1.2 expansion factor = 712 yd^3. Grab samples of the sides and bottom of the excavation will be collected and analyzed to verify the 5-foot clean buffer.

4.1.3.3 Engineered Barrier Installation

The 2-foot clay barriers will be installed in 1-foot thick compacted lifts and tested by an engineering firm to verify adequate compaction. The clay barrier will extend at least 5-feet beyond the contaminated soil in the floor of the excavation and will be contoured to shed water.

4.1.3.4 Backfilling, Contouring, and Reseeding

After the barriers are installed, it is proposed to backfill the excavations with the clean soil and contour to the natural grade. The east side release will be reseeded with a seed blend acceptable to the landowner.

4.2 Product Recovery and Ground Water Remediation

The free phase hydrocarbon will be removed via extraction wells and reintroduced to the Plains system at their Lea Station Facility. Contaminated ground water generated during monitoring or recovery activities will be disposed of at an NMOCD approved facility.

4.2.1 Product Recovery

Monitor wells MW1, MW2, MW3, MW4, MW8, MW9, and MW10 are impacted with PSH and are being used as PSH recovery wells. An automated eductor type recovery system, being used successfully at other Plains sites, will be installed within a lined and bermed area central to the site and secured with a chainlink fence with a lockable gate. Electrical power will be provided by a propane fueled 8,000 kilowatt generator designed for continuous operation. The system will be checked daily until the system and recovery rates have stabilized and twice weekly there after. A site diagram is included in Attachment I.

4.2.2 Ground Water Remediation

After the recoverable portions of free-product have been removed from the surface of the groundwater it is proposed that the natural attenuation of the dissolved phase hydrocarbons be monitored quarterly in accordance with the NMOCD guidelines. This is reasonable given that there are no domestic or agricultural water wells currently at risk.

4.3 Site Surface Restoration

During the spring of the year the surface will be reseeded with grasses native to the area, i.e., blue gramma and black gramma or a seed mix agreeable with the landowner.

4.4 Abatement and Monitoring Schedule

Sampling of the monitor wells will continue to be quarterly and monitoring reports submitted to the NMOCD Environmental Bureau offices in Hobbs and Santa Fe, New Mexico. Extraction of the non-aqueous phase hydrocarbon will cease after no observable sheen on the produced water surface and these wells will subsequently be placed in the groundwater sampling program. Abatement of the ground water will cease after receipt of 4 consecutive quarters of monitoring well data below regulatory limits. At that time the monitor wells will be abandoned.

4.5 Public Notification

Prior to issuance of the Public Notice, the following individuals and entities will be notified in writing of the Stage 1 and Stage 2 Abatement Plans.

- Surface owners of record with one (1) mile of the perimeter of the affected area;
- The Lea County Commission;
- Individuals or organizations requesting notification;
- The New Mexico Trustee for Natural Resources and other affected agencies; and
- All others as directed by the Director of the New Mexico Energy Minerals and Natural Resources Department.

Within fifteen days after receiving notice from the NMOCD that the Stage 1 Abatement Plan and/or the Stage 2 Abatement Plan are administratively complete, Plains will issue public notice in newspapers with county and state wide circulation's, i.e., Hobbs Daily News Sun, Lovington Leader, and Albuquerque Journal.

The Public Notice will be developed to include:

- Name and address of the responsible person;
- Location of the proposed abatement;
- Descriptions of the source extent, release volume, and affected environmental media;
- Description of the Stage 1 and Stage 2 Abatement Plans;
- Description of the procedure required by the Director before making a final determination;
- State that the abatement plan can be viewed at the Division office in Hobbs or electronically from a Division maintained site; and
- State that the Director will consider the following comments and requests if received within 30 days after publication of the public notice;
    a) Written comments on the abatement plan;
    b) For a Stage 2 abatement plan, written requests for a public hearing that includes reasons why a hearing should be held; and
    c) Address and telephone number at which interested persons may obtain further information.

Attachment I: Well Report, Maps and Figures

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 21S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

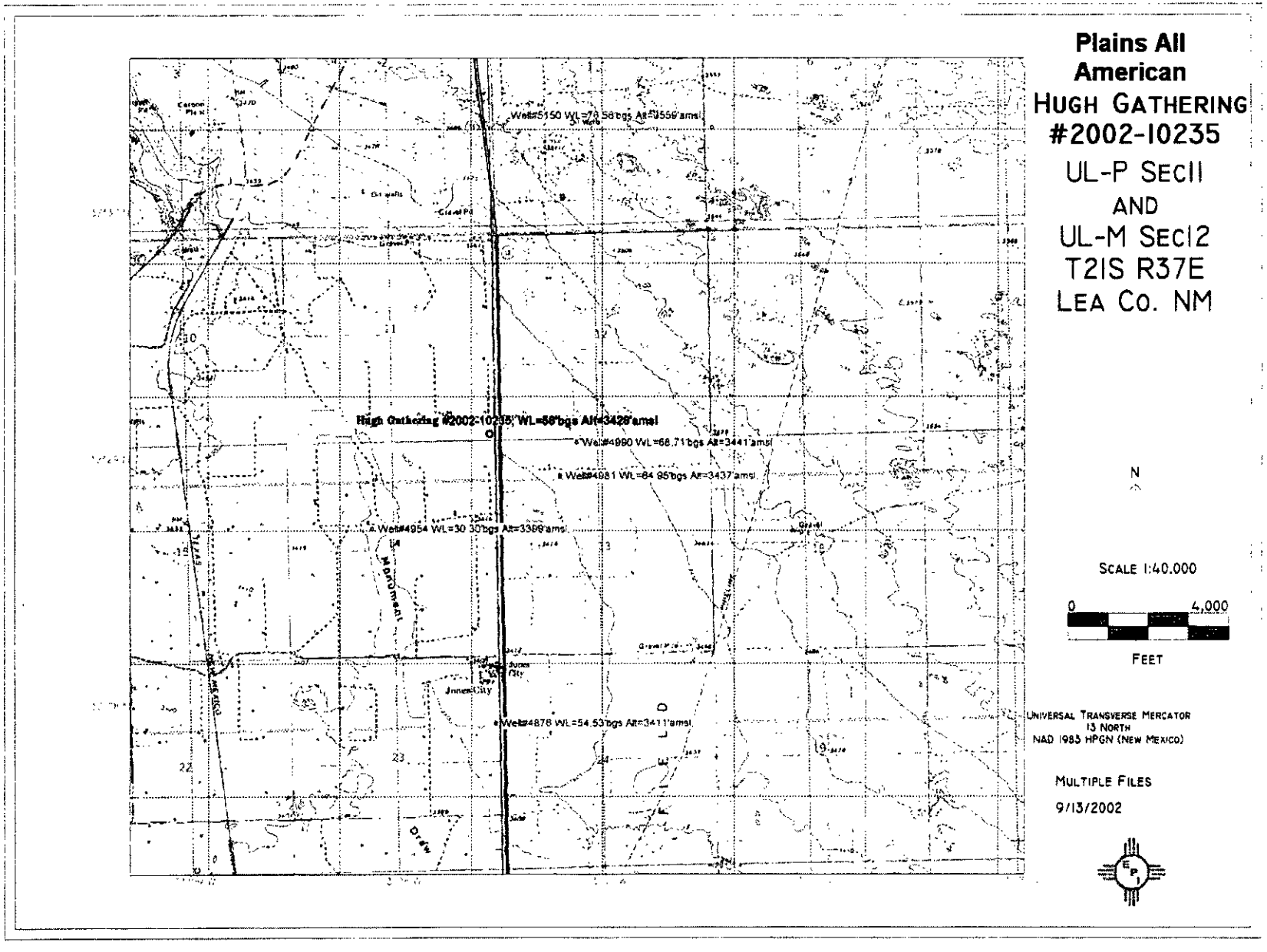
Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

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

AVERAGE DEPTH OF WATER REPORT 03/11/2005

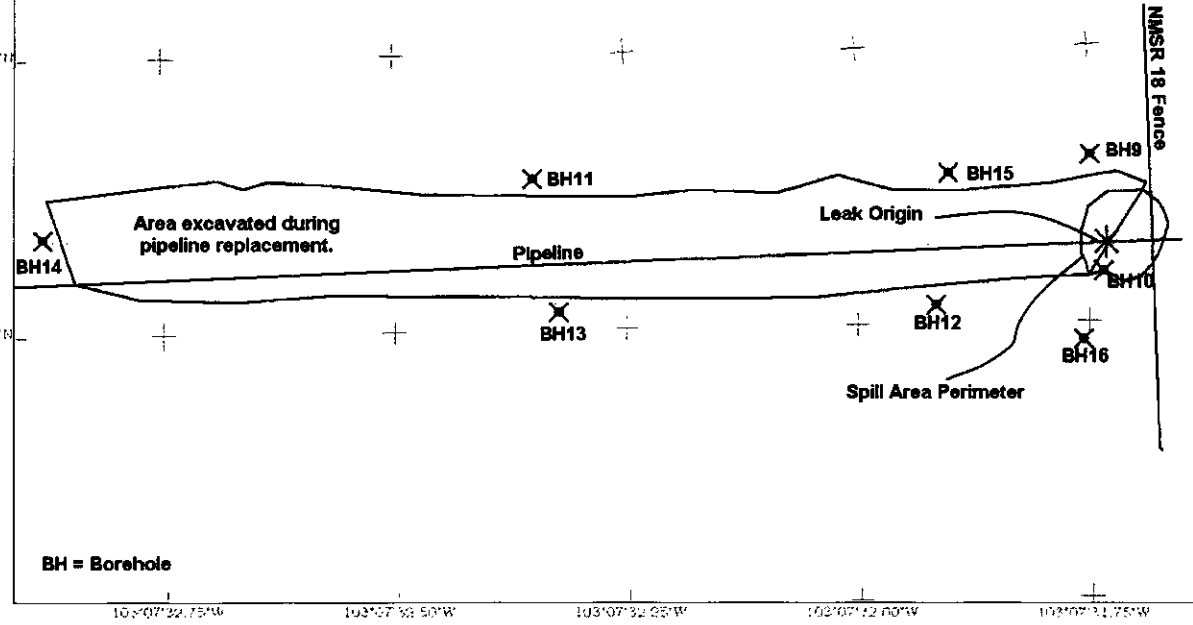
							(Depth Water in Feet)		
Bsn	**Tws**	**Rng**	**Sec**	**Zone**	**X**	**Y**	**Wells**	**Min**	**Max**	**Avg**
CP	21S	37E	04				2	75	75	75
CP	21S	37E	06				1	73	73	73
CP	21S	37E	16				1	70	70	70
CP	21S	37E	22				1	53	53	53
CP	21S	37E	23				1	65	65	65
CP	21S	37E	23		924000	6600000	1	65	65	65
CP	21S	37E	27				1	76	76	76
CP	21S	37E	28				3	65	75	71
CP	21S	37E	33				1	100	100	100

Record Count: 12


Plains All American
HUGH GATHERING
#2002-10235
UL-P SEC11
AND
UL-M SEC12
T21S R37E
LEA CO. NM
Well#5150 WL=73.58'bgs Alt=3559'amsl
High Gathering #2002-10235 WL=56'bgs Alt=3428'amsl
Well#4980 WL=68.71'bgs Alt=3441'amsl
Well#4981 WL=64.95'bgs Alt=3437'amsl
Well#4954 WL=30.30'bgs Alt=3399'amsl
Well#4878 WL=54.53'bgs Alt=3411'amsl
Jones City
Monument
N
SCALE 1:40,000
0
4,000
FEET
UNIVERSAL TRANSVERSE MERCATOR
13 NORTH
NAD 1983 HPGN (NEW MEXICO)
MULTIPLE FILES
9/13/2002

Borehole	Sampling Interval (FT. BGS)	VOC ppm	TPH mg/Kg	BTEX mg/Kg	Benzene mg/Kg
BH9	10'	793	23000	425 6	23 9
	15'	863	2720	80.76	2.36
	20'	50 4	<10 0	127	<0 025
	25'	6.9	<10.0	<0.025	<0.025
BH10	5'	828	14590	507 7	43 9
	10'	857	47100	1030	101
	15'	597	34800	959	101
	20'	656	31100	801 1	76 1
	25'	573	23400	716 5	66 2
	30'	647	28200	855 5	80 5
	35'	400	22900	484 8	35 6
	40'	386	32800	900 9	90 9
	45'	800	7450	345 8	25 7
	50'	72.4	37.2	<0 025	<0 025
	55'	7.8	<10 0	<0.025	<0.02
BH11	5'	2.8	<10 0	<0.025	<0.02
	10'	2 5	<10 0	<0.025	<0 025
	15'	1 3	<10.0	<0.025	<0.025
BH12	5'	1157	5580	245 4	17.1
	10'	982	10430	222 8	11 8
	15'	74.8	<10.0	0 121	<0 025
	20'	2.1	<10.0	0.182	<0 025

Borehole	Sampling Interval (FT. BGS)	VOC ppm	TPH mg/Kg	BTEX mg/Kg	Benzene mg/Kg
BH13	5'	0 7	<10 0	1 020	0 026
	10'	1 6	<10.0	<0 025	<0 025
	15'	1.4	<10.0	<0 025	<0 025
BH14	5'	8.4	<10 0	<0 025	<0 025
	10'	6.1	<10.0	<0 025	<0 025
	15'	5.5	<10 0	<0 025	<0 025
BH15	5'	905 0	16030	1363 8	39 8
	10'	864 0	37900	2550 1	97 1
	15'	25 4	21 0	<0.025	<0.025
	20'	6 2	<10 0	<0 025	<0 025
BH16	5'	786 0	7950	188.57	5 37
	10'	642 0	15490	488	28.2
	15'	818 0	23500	598.4	27.9
	20'	814 0	18660	565.1	36 1
	25'	774 0	16470	19.11	<0 200
	30'	8 7	<10.0	0 413	<0 025
	35'	7.8	<10.0	0.5520	<0 025



Plains All American Pipeline Hugh Gathering 090402 #2002-10235 UL-P Sec 11 T21E R37E Lea Co NM Borehole Map

N

Scale 1:200

0 20.00

Feet

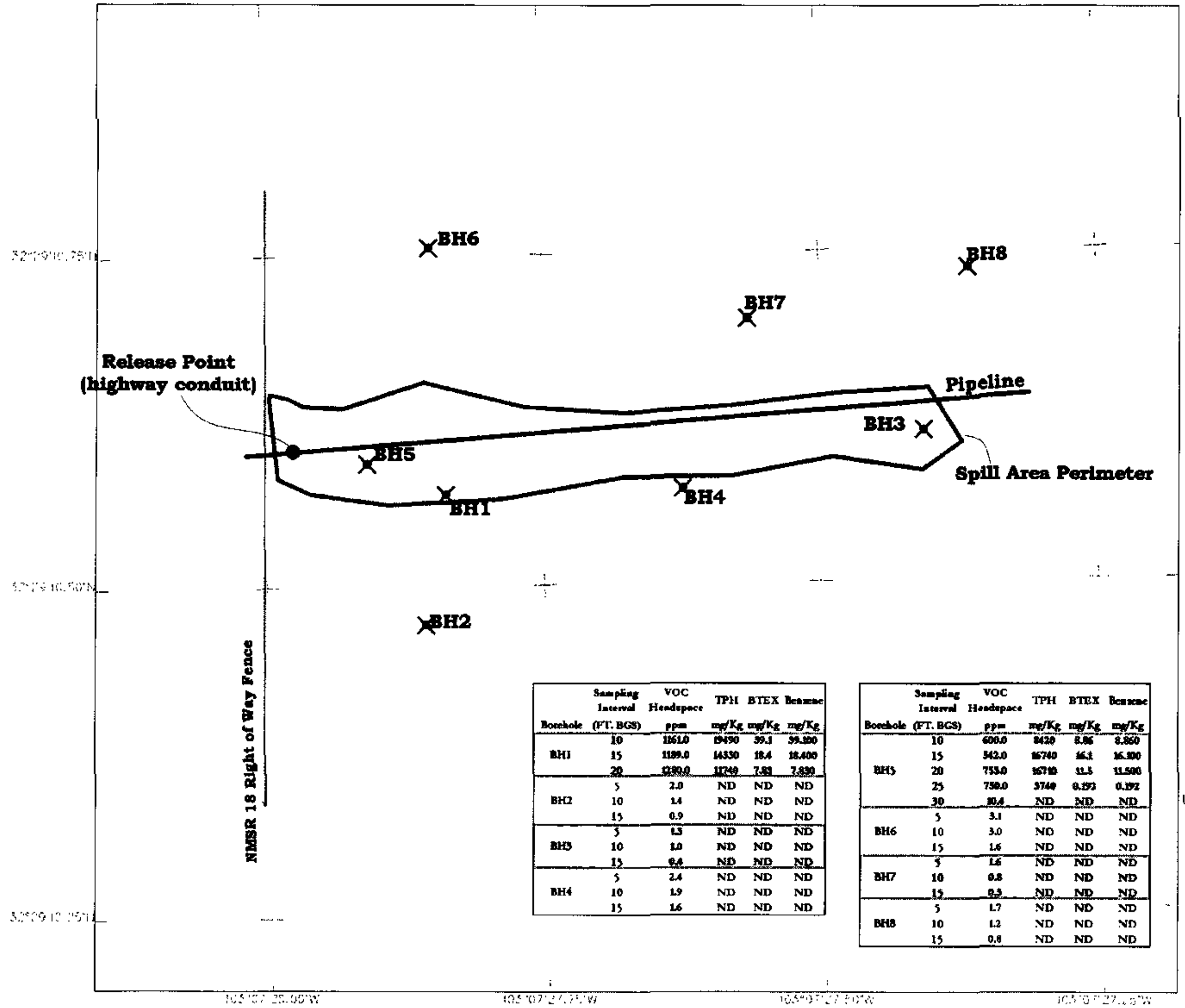
Universal Transverse Mercator
13 North
NAD 1983 HPGN (New Mexico)

Hugh Gathering West Borehc

3/10/2005

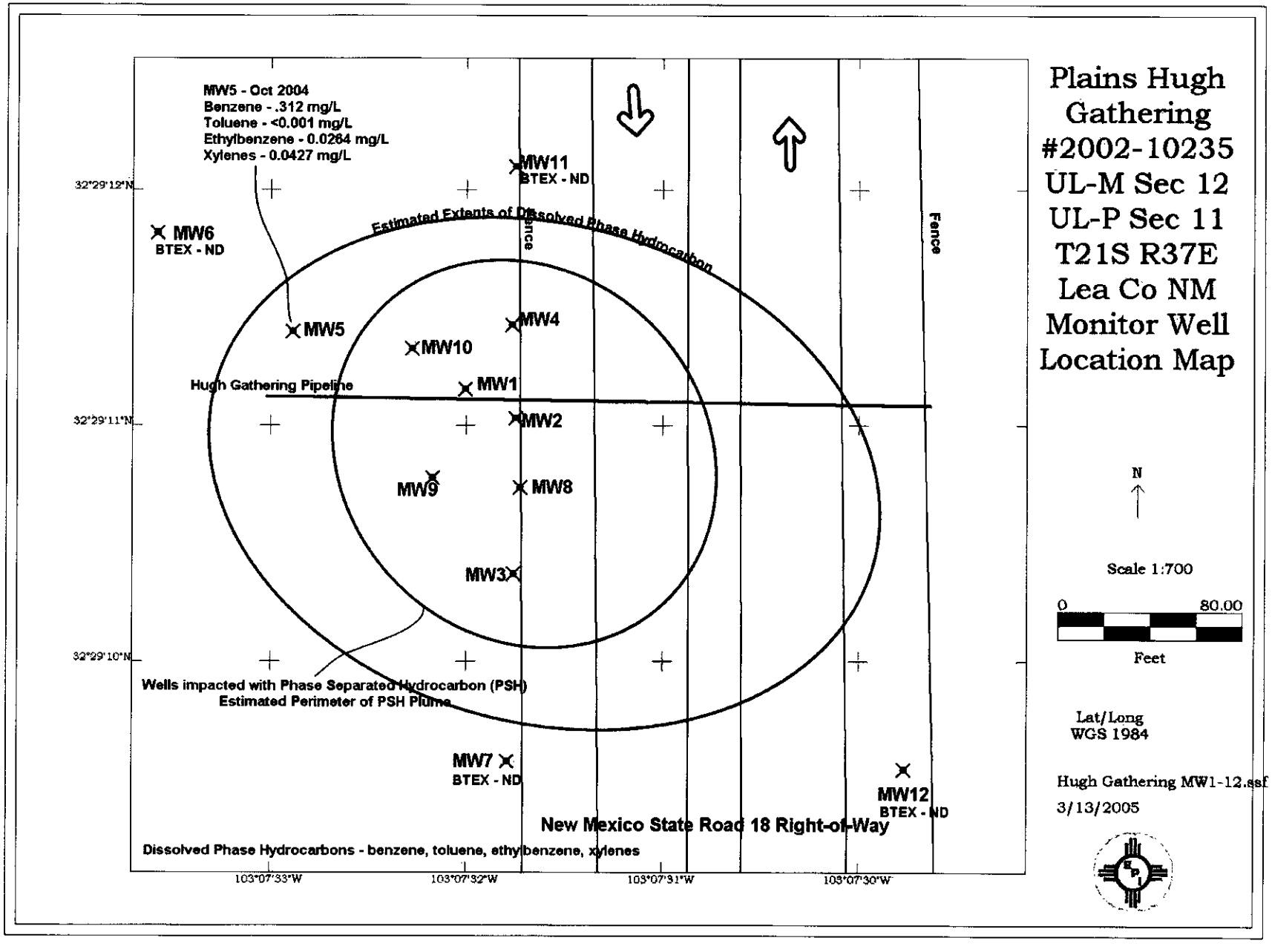
Plains All American Pipeline Hugh Gathering #2002-10235 Eastside Release

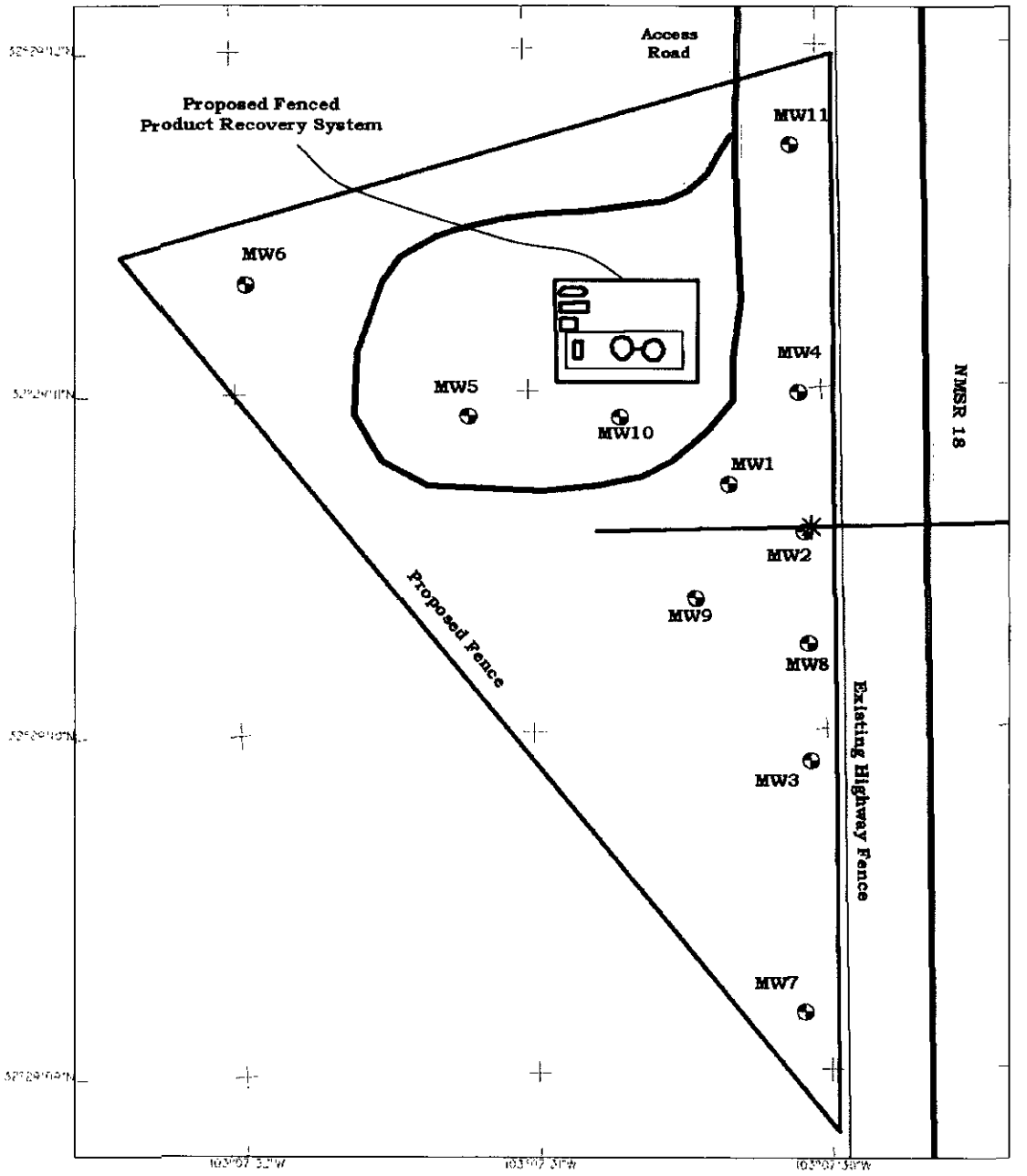
UL-M Sec 12
T21S R37E
Lea Co NM
Affected Area
~326 SQFT



Borehole	Sampling Interval (FT. BGS)	VOC Headspace ppm	TPH mg/Kg	BTEX mg/Kg	Benzene mg/Kg
BH1	10	1161.0	19490	39.1	39.100
	15	1189.0	14330	18.4	18.400
	20	1280.0	11749	7.83	7.830
BH2	5	2.0	ND	ND	ND
	10	1.4	ND	ND	ND
	15	0.9	ND	ND	ND
BH3	5	1.3	ND	ND	ND
	10	1.0	ND	ND	ND
	15	0.4	ND	ND	ND
BH4	5	2.4	ND	ND	ND
	10	1.9	ND	ND	ND
	15	1.6	ND	ND	ND

Borehole	Sampling Interval (FT. BGS)	VOC Headspace ppm	TPH mg/Kg	BTEX mg/Kg	Benzene mg/Kg
BH5	10	600.0	8420	8.86	8.860
	15	542.0	16740	16.1	16.100
	20	753.0	16710	11.5	11.500
	25	750.0	3740	0.193	0.192
	30	10.4	ND	ND	ND
BH6	5	3.1	ND	ND	ND
	10	3.0	ND	ND	ND
	15	1.6	ND	ND	ND
BH7	5	1.6	ND	ND	ND
	10	0.8	ND	ND	ND
	15	0.5	ND	ND	ND
BH8	5	1.7	ND	ND	ND
	10	1.2	ND	ND	ND
	15	0.6	ND	ND	ND


MW5 - Oct 2004
Benzene - .312 mg/L
Toluene - <0.001 mg/L
Ethylbenzene - 0.0264 mg/L
Xylenes - 0.0427 mg/L
MW11
BTEX - ND
MW6
BTEX - ND
Estimated Extents of Dissolved Phase Hydrocarbon
Fence
Fence
MW5
MW4
MW10
Hugh Gathering Pipeline
MW1
MW2
MW9
MW8
MW3
MW7
BTEX - ND
MW12
BTEX - ND
New Mexico State Road 18 Right-of-Way
Wells impacted with Phase Separated Hydrocarbon (PSH)
Estimated Perimeter of PSH Plume
Dissolved Phase Hydrocarbons - benzene, toluene, ethylbenzene, xylenes
32°29'12"N
32°29'11"N
32°29'10"N
103°07'33"W
103°07'32"W
103°07'31"W
103°07'30"W
Plains Hugh Gathering #2002-10235 UL-M Sec 12 UL-P Sec 11 T21S R37E Lea Co NM Monitor Well Location Map
N
Scale 1:700
0
80.00
Feet
Lat/Long
WGS 1984
Hugh Gathering MW1-12.ssf
3/13/2005



PLAINS ALL AMERICAN HUGH GATHERING #2002-10235
UL-P SECTION 11 T21S R37E LEA COUNTY NEW MEXICO
PROPOSED FENCED AREA = 33,277 SQFT ACCESS ROAD = 400 FT

UNIVERSAL TRANSVERSE MERCATOR
13 NORTH
NAD 1927 (WESTERN US)

N

SCALE 1:600

0 70.00

FEET

HUGH GATHERING SURFACE USE

2/21/2005

Attachment II: Site Photographs


EOTT Energy Pipeline
Linman Line 6" West side of NMSR 18
UL-P Section 11 T21S R37E
SEP 4 2002


EOTT Energy Pipeline
Linman Line 6" East side of NMSR 18
UL-M Section 12 T21S R37E
SEP 4 2002

Attachment III: Quality Assurance Plan

1.0 QUALITY ASSURANCE PROJECT PLAN

This Quality Assurance Plan (QAP) will ensure the quality and usability of information and data used to support a successful site investigation and subsequent environmental management decisions.

1.1.1 Data Quality Objectives

For analytical information derived from samples, the following quality controls will be documented and verified. If data is within the specifications it will be deemed quantitative and acceptable for use in making environmental management decisions.

- Laboratory data must have extraction recovery for TPH, BTEX and general chemistry parameters ≤30.0%. Or a "%Extraction Accuracy" between 70 and 130%.
- Laboratory data must have <30% Relative Percent Difference or a "%Instrument Accuracy" between 70 and 130%.
- Field headspace analyses must be supported with instrument calibration data and calibration gas certification.

1.1.2 Methods

Collecting representative site samples and information requires that the sampling and observational processes and procedures be implemented within strict bounds. These control procedures will further ensure the quality of site data and information and are consistent with the Plains standard operating procedures as referenced in the NMOCD approved "General Work Plan for Remediation of EOTT Pipeline Spills, Leaks, and Releases in New Mexico." Likewise, personnel will implement standard environmental and occupational safety protocols.

1.1.2.1 Borehole Drilling, Lithologic Sampling, Logging, and Abandonment

Boreholes will be located strategically to best determine vertical and horizontal extent of contamination in the vadose zone and ground water. Borelogs will be developed for each boring noting site lithology. Likewise, laboratory samples may be collected to determine more detailed lithologic characteristics, i.e., porosity, transmissivity, etc. Each borehole not developed into a permanent monitor well will be plugged with Sodium Bentonite in accordance with the NMOCD guidelines.

1.1.2.1.1 General Drilling Procedures

The investigation will use the Environmental Plus, Inc. drill rig with hollow stem auger and "thin-wall probe" method of discrete sampling.

1.1.2.1.2 Soil Sampling and Logging

Upon advancing to the desired sampling interval the probe will be extended through the end of the hollow stem auger and pushed into the soil matrix to collect the sample. As the 1.5" X 48" stainless steel probe with a vinyl sampling sleeve is detached from the sampling bar, it will be immediately placed on the rack and logged. A 4 oz. sample will then be decanted into the sample jar for refrigeration and preparation with the remainder (~1 Kg) placed in a 1 gallon Ziplock bag, warmed to ambient ~ 70-80 °F and VOC Headspace concentration measured and recorded. All pertinent information will be recorded on the field borelog data sheet.

1.1.2.1.3 Monitor and Pollution Abatement Well Installation

Boreholes exhibiting contamination from the surface to ground water will be abandoned. Those advanced down gradient of the site for the purpose of plume delineation and found to be unimpacted will be completed and developed as monitor wells. Some boreholes may be temporarily abandoned, i.e., covered but not plugged, for future development as pollution abatement wells. The New Mexico State Engineers Office will be notified in

writing of all pollution abatement well installations. All monitor and pollution abatement wells will be installed and developed in accordance with the NMOCD guidelines.

1.1.2.1.4 Ground Water Sampling

Ground water will be sampled within 24 hours of well development using a new and certifiably clean one-liter weighted baler. The water will be immediately decanted into the appropriate containers and prepared for ascension to the laboratory.

1.1.2.1.5 Borehole Abandonment

The boreholes will be filled with a mixture of distilled water and Sodium Bentonite and a wooden marker denoting the borehole number driven into the center of each backfilled hole.

1.1.2.2 Sample Handling

Soil and water samples will be collected and prepared in accordance with accepted ASTM and EPA SW846 methods.

1.1.2.3 Sampling protocols

1. Decontaminate sampling equipment and area with Alconox distilled water after each sample.
2. Prepare samples and refrigerate as soon as practicable.

Duplicates or blanks may be submitted to the laboratory to establish reproducibility and identify laboratory contamination, respectively.

1.1.2.4 Sample Containers

Laboratory and field analyses of soil and water require specific containers and are listed in the matrix below.

	TPH	BTEX	VOC Headspace	Metals	PAH	General Chemistry
Soil	4 oz. Jars with Teflon seal	4 oz. Jars with Teflon seal	1-gallon Ziplock® bags			
Water	1 liter amber glass w/HCL	2-40 ml VOA vials w/ HCL		16 oz. Plastic w/ 1ml HNO_3	1 liter Amber Glass	1 liter Plastic

1.1.2.5 Sample Custody

All analytical request forms will be completed and signatured by EPI as sampler. EPI personnel will ascension the samples to the AnalySys, Inc. sample-receiving personnel under chain-of-custody signature.

1.1.2.6 Quality Control Samples

Quality control samples will be analyzed to ensure data quality.

1.1.2.6.1 Field Blank

A field blank for soil or water is not deemed necessary.

1.1.2.6.2 Equipment Blank

None will be collected.

1.1.2.6.3 Field Duplicate or Co-located Samples

For water and soil samples, one duplicate or co-located sample will be collected for analysis every 10th sample.

1.1.2.6.4 Trip Blank

A laboratory prepared trip blank will accompany each water sample batch.

1.1.2.7 Field Measurements

The VOC Headspace concentration for each soil sample will be measured. The instrument used will be the Ultra-Rae PID manufactured by Rae Systems. The calibration gas will be 100.0 ppm isobutylene standard from Scott Specialty Gases, Freemont, Colorado.

1.1.2.7.1 Equipment Calibration and Quality Control

The PID will be calibrated at least 3 times daily and checked with the calibration gas hourly. When a check with the calibration gas indicates the instrument reading is 10 ppm too high or low it will be calibrated. Variation in the daytime ambient temperature will cause the variation.

1.1.2.7.2 Equipment Maintenance and Decontamination

All sampling and survey equipment will be routinely decontaminated between samples. Nitrile gloves will be worn and changed with each sampling iteration.

1.1.2.7.3 Ground Water Level Measurements

Ground water levels will be taken with an accurate water level meter at each borehole where ground water is encountered and may require the use of an interface meter. Levels will be recorded as "feet below ground surface" to the nearest ".1 ft."

1.1.2.8 Analyses

Soil and ground water will be analyzed in accordance with the following EPA Methods.

The analytical suite for soil samples will include;

- TPH (EPA method 8015M)
- BTEX (EPA method 8020 or equivalent)
- SPLP for selected samples

The analytical suite for water samples will include:

- TPH (EPA method 8015B)
- BTEX (EPA method 8021B)
- Total Dissolved Solids (EPA method 150.1)
- PAH (EPA method 8270)

1.1.2.9 Sample Identification

Sample identification numbers will be designated as follows;

Site: Plains	Date	Borehole #	Interval bgs	Qualification: Cutting/Probe Sample
Hugh Gathering	2-2-04	BH1	20'	C or P

Example: PHG2204BH1-20C

1.1.2.10 Data Evaluation

All data will be reviewed based on the Data Quality Objectives in section 1.1.1.

Attachment IV: Site Soil Delineation Information

Plains All American Pipeline
Hugh Gathering #2002-10235
Soil Boring Delineation Data Eastside of NMSR 18

Sample Location	Sample Description	Sampling Interval (FT. BGS[1])	SAMPLE ID#	Date	Lithology	VOC Headspace ppm	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX[9] mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg
BH1	Probe	10	SEL69902BH1-10	9/9/02	Brown Coarse Sand	1161.0	9580	9910	19490	425.6	39.100	96.400	102.000
	Probe	15	SEL69902BH1-15	9/9/02	Brown Coarse Sand	1189.0	6850	7480	14330	298.7	18.400	71.200	70.800
	Probe	20	SEL69902BH1-20	9/9/02	Brown Coarse Sand	1280.0	5370	6370	11740	213.73	7.830	50.100	41.500
BH2	Probe	5	SEL69902BH2-5	9/9/02	Brown Coarse Sand	2.0	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL69902BH2-10	9/9/02	Brown Coarse Sand	1.4	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL69902BH2-15	9/9/02	Brown Coarse Sand	0.9	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH3	Probe	5	SEL69902BH3-5	9/9/02	Tan Coarse Sand	1.3	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL69902BH3-10	9/9/02	Tan Coarse Sand	1.0	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL69902BH3-15	9/9/02	Brown Coarse Sand	0.4	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH4	Probe	5	SEL691002BH4-5	9/10/02	Tan Coarse Sand	2.4	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL691002BH4-10	9/10/02	Tan Coarse Sand	1.9	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL691002BH4-15	9/10/02	Brown Coarse Sand	1.6	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH5	Cutting	10	SEL691002BH5-10	9/10/02	Oil Stained Caliche	600.0	3210	5210	8420	163.46	8.860	34.100	35.100
	Probe	15	SEL691002BH5-15	9/10/02	Brown Coarse Sand	542.0	7730	9010	16740	294.4	16.100	67.400	71.000
	Probe	20	SEL691002BH5-20	9/10/02	Brown Coarse Sand	753.0	7580	9130	16710	294.3	11.500	64.600	68.400
	Probe	25	SEL691002BH5-25	9/10/02	Tan Coarse Sand	750.0	1340	2400	3740	26.992	0.192	3.570	6.210
	Probe	30	SEL691002BH5-30	9/10/02	Sandy Red Clay	10.4	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH6	Probe	5	SEL691102BH6-5	9/11/02	Tan Coarse Sand	3.1	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL691102BH6-10	9/11/02	Brown Caliche Sand	3.0	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL691102BH6-15	9/11/02	Brown Coarse Sand	1.6	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH7	Probe	5	SEL691102BH7-5	9/11/02	Tan Coarse Sand	1.6	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL691102BH7-10	9/11/02	Tan Coarse Sand	0.8	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL691102BH7-15	9/11/02	Tan Coarse Sand	0.3	<10	<10	ND	ND	<0.025	<0.025	<0.025
BH8	Probe	5	SEL691102BH8-5	9/11/02	Tan Coarse Sand	1.7	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	10	SEL691102BH8-10	9/11/02	Brown Caliche Sand	1.2	<10	<10	ND	ND	<0.025	<0.025	<0.025
	Probe	15	SEL691102BH8-15	9/11/02	Tan Coarse Sand	0.8	<10	<10	ND	ND	<0.025	<0.025	<0.025
Method Detection Limit							10	10			0.025	0.025	0.025
Remedial Goals for soil from the surface to ~8'bgs						100.0			1000	50.0000	10.0000		
Remedial Goals for soil from ~8'bgs to the groundwater at ~58'bgs						100.0			100	50.0000	10.0000		

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{12}

[4]DRO-Diesel Range Organics C_{12}-C_{35}

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

na - not analyzed

[9]BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

ND - not detected above the method detection limit.

Plains All American Pipeline
Hugh Gathering #2002-10235
Soil Boring Delineation Data Westside of NMSR 18

Sample Location	Sample Description	Sampling Interval (FT BGS[1])	SAMPLE ID#	Date	Lithology	VOC Headspace ppm	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX[9] mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg
BH9	Probe	10'	SEL691102BH9	9/11/02	Brown Oily Sand	793	10600	12400	23000	425.6	23.9	111	73.8
	Probe	15'	SEL691102BH9	9/11/02	Lt. Brown Oily Sand	863	1220	1500	2720	80.76	2.36	17.7	17.7
	Probe	20'	SEL691102BH9	9/11/02	Lt. Brown Oily Sand	50.4	<10.0	<10.0	<10.0	127	<0.025	<0.025	0.031
	Probe	25'	SEL691102BH9	9/11/02	Lt. Brown Oily Sand	6.9	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH10	Probe	5'	SEL691202BH10	9/12/02	Brown Oily Sand	828	7560	7030	14590	507.7	43.9	160	99
	Probe	10'	SEL691202BH10	9/12/02	Brown Oily Sand	857	22000	25100	47100	1030	101	325	197
	Probe	15'	SEL691202BH10	9/12/02	Brown Oily Sand	597	16700	18100	34800	959	101	308	173
	Probe	20'	SEL691202BH10	9/12/02	Brown Oily Sand/Prod.	656	15300	15800	31100	801.1	76.1	252	146
	Probe	25'	SEL691202BH10	9/12/02	Brown Oily Sand	573	12000	11400	23400	716.5	66.2	234	132
	Probe	30'	SEL691202BH10	9/12/02	Brown Sandy Clay	647	13800	14400	28200	855.5	80.5	271	164
	Probe	35'	SEL691202BH10	9/12/02	Red Clay	400	10600	12300	22900	484.8	35.6	143	98.1
	Probe	40'	SEL691202BH10	9/12/02	Red Clay	386	16400	16400	32800	900.9	90.9	285	168
	Probe	45'	SEL691202BH10	9/13/02	Red Clay	800	3480	3970	7450	345.8	25.7	109	66.4
	Probe	50'	SEL691202BH10	9/13/02	Red Clay	72.4	15.3	21.9	37.2	<0.025	<0.025	<0.025	<0.025
	Probe	55'	SEL691202BH10	9/13/02	Red Clay	7.8	<10.0	<10.0	<10.0	<0.025	<0.02	<0.025	<0.025
BH11	Probe	5'	SEL691602BH11	9/16/02	Lt. Brown Sand	2.8	<10.0	<10.0	<10.0	<0.025	<0.02	<0.025	<0.025
	Probe	10'	SEL691602BH11	9/16/02	Lt. Brown Sand	2.5	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
	Probe	15'	SEL691602BH11	9/16/02	Lt. Brown Sand	1.3	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH12	Probe	5'	SEL691602BH12	9/16/02	Brown Oily Sand & Rk	1157	2740	2840	5580	245.4	17.1	73.5	46.5
	Probe	10'	SEL691602BH12	9/16/02	Brown Oily San	982	4500	5930	10430	222.8	11.8	60.3	45.7
	Probe	15'	SEL691602BH12	9/16/02	Lt. Brown Sand	74.8	<10.0	<10.0	<10.0	0.121	<0.025	0.028	0.03
	Probe	20'	SEL691602BH12	9/16/02	Lt. Brown Sand	2.1	<10.0	<10.0	<10.0	0.182	<0.025	0.045	0.038
BH13	Probe	5'	SEL691602BH13	9/16/02	Lt. Brown Sand	0.7	<10.0	<10.0	<10.0	1.020	0.026	0.164	0.188
	Probe	10'	SEL691602BH13	9/16/02	Lt. Brown Sand	1.6	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
	Probe	15'	SEL691602BH13	9/16/02	Lt. Brown Sand	1.4	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH14	Probe	5'	SEL691602BH14	9/16/02	Lt. Brown Sand & Rk	8.4	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
	Probe	10'	SEL691602BH14	9/16/02	Lt. Brown Sand	6.1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
	Probe	15'	SEL691602BH14	9/16/02	Lt. Brown Sand	5.5	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH15	Probe	5'	SEL691702BH15	9/17/02	Brown Sand & Rk	905.0	8060	7970	16030	1363.8	39.8	296	248
	Probe	10'	SEL691702BH15	9/17/02	Brown Sand & Rk	864.0	19600	18300	37900	2550.1	97.1	572	474
	Probe	15'	SEL691702BH15	9/17/02	Lt. Brown Sand	25.4	<10.0	21.0	21.0	<0.025	<0.025	<0.025	<0.025
	Probe	20'	SEL691702BH15	9/17/02	Lt. Brown Sand	6.2	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH16	Probe	5'	SEL691702BH16	9/17/02	Brown Sand	786.0	3950	4000	7950	188.57	5.37	43.2	35.9
	Probe	10'	SEL691702BH16	9/17/02	Lt. Brown Sand	642.0	7630	7860	15490	488	28.2	140	98.0
	Probe	15'	SEL691702BH16	9/17/02	Lt. Brown Sand	818.0	11400	12100	23500	598.4	27.9	187	120
	Probe	20'	SEL691702BH16	9/17/02	Brown Sand	814.0	8880	9780	18660	565.1	36.1	161	107
	Probe	25'	SEL691702BH16	9/17/02	Brown Sand	774.0	7520	8950	16470	19.11	<0.200	2.72	5.37
	Probe	30'	SEL691702BH16	9/17/02	Red Clay	8.7	<10.0	<10.0	<10.0	0.413	<0.025	0.063	0.09
	Probe	35'	SEL691702BH16	9/17/02	Red Clay	7.8	<10.0	<10.0	<10.0	0.5520	<0.025	0.100	0.100
					Method Detection Limit		10	10			0.025	0.025	0.025
					Remedial Goals for soil from the surface to ~8'bgs	100.0			1000	50.0000	10.0000		
					Remedial Goals for soil from ~8'bgs to the groundwater at ~58'bgs	100.0			100	50.0000	10.0000		

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{12}

[4]DRO-Diesel Range Organics C_{12}-C_{35}

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

na - not analyzed

[9]BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

ND - not detected above the method detection limit.

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6"
PO#:	2002-10235
Order#:	G0204500
Report Date:	09/18/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204500
Project: 2002-10235
Project Name: Linman 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
0204500-01	SEL69902BH1-10'	SOIL	9/9/02 9:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-02	SEL69902BH1-15'	SOIL	9/9/02 9:20	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-03	SEL69902BH1-20'	SOIL	9/9/02 9:40	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-04	SEL69902BH2-5'	SOIL	9/9/02 11:30	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-05	SEL69902BH2-10'	SOIL	9/9/02 11:45	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-06	SEL69902BH2-15'	SOIL	9/9/02 12:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204500-07	SEL69902BH3-5'	SOIL	9/9/02 13:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204500
Project: 2002-10235
Project Name: Linman 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
	8015M 8021B/5030 BTEX					
0204500-08	SEL69902BH3-10'	SOIL	9/9/02 13:35	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204500-09	SEL69902BH3-15'	SOIL	9/9/02 14:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-01
Sample ID: SEL69902BH1-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	10	CK	8015M

Paramcter	Result mg/kg	RL
GRO, C6-C12	9580	100
DRO, >C12-C35	9910	100
TOTAL, C6-C35	19490	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/14/02 22:15	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	39.1	0.200
Ethylbenzene	102	0.200
Toluene	96.4	0.200
p/m-Xylene	130	0.200
o-Xylene	58.1	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1090%	80	120
Bromofluorobenzene	132%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-02
Sample ID: SEL69902BH1-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	6850	100
DRO, >C12-C35	7480	100
TOTAL, C6-C35	14330	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/14/02 22:38	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	18.4	0.200
Ethylbenzene	70.8	0.200
Toluene	71.2	0.200
p/m-Xylene	96.9	0.200
o-Xylene	41.4	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	762%	80	120
Bromofluorobenzene	125%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204500
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204500-03
Sample ID: SEL69902BH1-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	5370	100
DRO, >C12-C35	6370	100
TOTAL, C6-C35	11740	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/14/02 23:00	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	7.83	0.200
Ethylbenzene	41.5	0.200
Toluene	50.1	0.200
p/m-Xylene	81.2	0.200
o-Xylene	33.1	0.200

Surrogates	% Recovered	QC Limits (%)	
asa-Toluene	606%	80	120
Bromofluorobenzene	129%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204500
Project: 2002-10235
Project Name: Lisman 6"
Location: None Given

Lab ID: 0204500-04
Sample ID: SEL69902BH2-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 0:29	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	104%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-05
Sample ID: SEL69902BH2-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 0:51	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	105%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204500
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204500-06
Sample ID: SEL69902BH2-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 1:13	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	106%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-07
Sample ID: SEL69902BH3-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 1:35	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<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	97%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-08
Sample ID: SEL69902BH3-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 1:57	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	80	120
Bromofluorobenzene	104%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204500
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204500-09
Sample ID: SEL69902BH3-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/13/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 2:19	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	107%	80	120
Bromofluorobenzene	112%	80	120

Approval: Raland K Tuttle 9-19-02
Date

Raland K. Tuttle, Lab Director, QA Officer
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#: G0204500

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003146-02			<10.0		
TOTAL, C6-C35-mg/kg	0003147-02			<10.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204496-07	38.1	1053.86	1130	103.6%	
TOTAL, C6-C35-mg/kg	0204500-04	0	1101.46	1080	98.1%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204496-07	38.1	1053.86	1120	102.7%	0.9%
TOTAL, C6-C35-mg/kg	0204500-04	1080	1101.46	1100	99.9%	1.8%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003146-05		1000	995	99.5%	
TOTAL, C6-C35-mg/kg	0003147-05		1000	1040	104.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204500

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003173-02			<0.025		
Ethylbenzene-mg/kg	0003173-02			<0.025		
Toluene-mg/kg	0003173-02			<0.025		
p/m-Xylene-mg/kg	0003173-02			<0.025		
o-Xylene-mg/kg	0003173-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204501-08	0	0.1	0.094	94.%	
Ethylbenzene-mg/kg	0204501-08	0	0.1	0.096	96.%	
Toluene-mg/kg	0204501-08	0	0.1	0.096	96.%	
p/m-Xylene-mg/kg	0204501-08	0	0.2	0.198	99.%	
o-Xylene-mg/kg	0204501-08	0	0.1	0.095	95.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204501-08	0.094	0.1	0.093	93.%	1.1%
Ethylbenzene-mg/kg	0204501-08	0.096	0.1	0.093	93.%	3.2%
Toluene-mg/kg	0204501-08	0.096	0.1	0.096	96.%	0.%
p/m-Xylene-mg/kg	0204501-08	0.198	0.2	0.193	96.5%	2.6%
o-Xylene-mg/kg	0204501-08	0.095	0.1	0.093	93.%	2.1%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0003173-05		0.1	0.086	86.%	
Ethylbenzene-mg/kg	0003173-05		0.1	0.085	85.%	
Toluene-mg/kg	0003173-05		0.1	0.085	85.%	
p/m-Xylene-mg/kg	0003173-05		0.2	0.174	87.%	
o-Xylene-mg/kg	0003173-05		0.1	0.085	85.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204500
Project: Linman 6"

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL69902BH1-10'	0204500-01	SOIL	09/09/2002	09/12/2002
SEL69902BH1-15'	0204500-02	SOIL	09/09/2002	09/12/2002
SEL69902BH1-20'	0204500-03	SOIL	09/09/2002	09/12/2002
SEL69902BH2-5'	0204500-04	SOIL	09/09/2002	09/12/2002
SEL69902BH2-10'	0204500-05	SOIL	09/09/2002	09/12/2002
SEL69902BH2-15'	0204500-06	SOIL	09/09/2002	09/12/2002
SEL69902BH3-5'	0204500-07	SOIL	09/09/2002	09/12/2002
SEL69902BH3-10'	0204500-08	SOIL	09/09/2002	09/12/2002
SEL69902BH3-15'	0204500-09	SOIL	09/09/2002	09/12/2002

The surrogate recoveries are higher than the control limits on samples 1-3 because of interference from coeluting compounds.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K Tuttle Date: 9-19-02
Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ~~Bart McCasland~~ Frank Hernandez
Company Name: ~~Environmental Plus Inc~~ Sott
Company Address: ~~2100 Ave O~~
City/State/Zip: ~~Eunice N.M. 88231~~
Telephone No: ~~505-394-3481~~ Fax No: ~~505-394-2601~~
Sampler Signature: Bradley Blevins

Project Name: Linam 6"
Project #: 2002-10235
Project Loc:
PO #:

LAB # (lab use only) 0204560	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: NaOH	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH 8015 (GRO/DRO)	Analyze For: TCLP: BTEX 8021B/5030	Analyze For: TOTAL: TPH 8015 (GRO/DRO)	Analyze For: TOTAL: Metals As Ag Ba Cd Cr Pb Se Hg	Analyze For: TOTAL: Volatiles	Analyze For: TOTAL: Semivolatiles	Analyze For: TOTAL: BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
01	SEL69902BH1-10'	9-9-02	9:00	1	X									X				X				X		
02	SEL69902BH1-15'	9-9-02	9:20	1	X									X				X				X		
03	SEL69902BH1-20'	9-9-02	9:40	1	X									X				X				X		
04	SEL69902BH2-5'	9-9-02	11:30	1	X									X				X				X		
05	SEL69902BH2-10'	9-9-02	11:45	1	X									X				X				X		
06	SEL69902BH2-15'	9-9-02	12:00	1	X									X				X				X		
07	SEL69902BH3-5'	9-9-02	1:00	1	X									X				X				X		
08	SEL69902BH3-10'	9-9-02	1:35	1	X									X				X				X		
09	SEL69902BH3-15'	9-9-02	2:00	1	X									X				X				X		

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
Bradley Blevins	9/9/02	3:00	Cody Miller		
Relinquished by	Date	Time	Received by ELOT	Date	Time
Cody Miller			Rul. dk Jm	9-12-02	1055

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
rec 1.0°C

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6"
PO#:	2002-10235
Order#:	G0204501
Report Date:	09/18/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204501
Project: 2002-10235
Project Name: Linman 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
0204501-01	SEL691002BH4-5'	SOIL	9/10/02 8:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-02	SEL691002BH4-10'	SOIL	9/10/02 8:15	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-03	SEL691002BH4-15'	SOIL	9/10/02 8:35	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-04	SEL691002BH5-10'	SOIL	9/10/02 9:30	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-05	SEL691002BH5-15'	SOIL	9/10/02 10:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-06	SEL691002BH5-20'	SOIL	9/10/02 11:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0204501-07	SEL691002BH5-25'	SOIL	9/10/02 12:30	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS	Order#: G0204501
5805 E. HWY. 80	Project: 2002-10235
MIDLAND, TX 79706	Project Name: Linman 6"
915-684-3456	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
	8015M 8021B/5030 BTEX					
0204501-08	SEL691002BH5-30'	SOIL	9/10/02 13:40	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-01
Sample ID: SEL691002BH4-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 2:41	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	105%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-02
Sample ID: SEL691002BH4-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 3:03	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	108%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-03
Sample ID: SEL691002BH4-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 3:25	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	99%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-04
Sample ID: SEL691002BHS-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	3210	100
DRO, >C12-C35	5210	100
TOTAL, C6-C35	8420	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 3:47	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	8.86	0.100
Ethylbenzene	35.1	0.100
Toluene	34.1	0.100
p/m-Xylene	57.1	0.100
o-Xylene	28.3	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	846%	80	120
Bromofluorobenzene	166%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-05
Sample ID: SEL691002BH5-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	7730	100
DRO, >C12-C35	9010	100
TOTAL, C6-C35	16740	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 4:09	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	16.1	0.100
Ethylbenzene	71.0	0.100
Toluene	67.4	0.100
p/m-Xylene	96.2	0.100
o-Xylene	43.7	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1400%	80	120
Bromofluorobenzene	163%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-06
Sample ID: SEL691002BH5-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	7580	100
DRO, >C12-C35	9130	100
TOTAL, C6-C35	16710	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 4:32	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	11.5	0.100
Ethylbenzene	68.4	0.100
Toluene	64.6	0.100
p/m-Xylene	103	0.100
o-Xylene	46.8	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1280%	80	120
Bromofluorobenzene	162%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-07
Sample ID: SEL691002BH5-25'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1,340	10.0
DRO, >C12-C35	2,400	10.0
TOTAL, C6-C35	3,740	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/15/02 4:54	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.192	0.025
Ethylbenzene	6.21	0.025
Toluene	3.57	0.025
p/m-Xylene	11.9	0.025
o-Xylene	5.12	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	165%	80	120
Bromofluorobenzene	168%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204501-08
Sample ID: SEL691002BH5-30'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003173-02		9/16/02 10:08	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	108%	80	120
Bromofluorobenzene	111%	80	120

Approval: Raland K Tuttle 9-18-02
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#: G0204501

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003147-02			<10.0		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0204500-04	0	952	1100	115.5%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0204500-04	0	952	1080	113.4%	1.8%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003147-05		1000	1040	104.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204501

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003173-02			<0.025		
Ethylbenzene-mg/kg	0003173-02			<0.025		
Toluene-mg/kg	0003173-02			<0.025		
p/m-Xylene-mg/kg	0003173-02			<0.025		
o-Xylene-mg/kg	0003173-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204501-08	0	0.1	0.093	93.%	
Ethylbenzene-mg/kg	0204501-08	0	0.1	0.093	93.%	
Toluene-mg/kg	0204501-08	0	0.1	0.096	96.%	
p/m-Xylene-mg/kg	0204501-08	0	0.2	0.193	96.5%	
o-Xylene-mg/kg	0204501-08	0	0.1	0.093	93.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204501-08	0	0.1	0.094	94.%	1.1%
Ethylbenzene-mg/kg	0204501-08	0	0.1	0.096	96.%	3.2%
Toluene-mg/kg	0204501-08	0	0.1	0.096	96.%	0.%
p/m-Xylene-mg/kg	0204501-08	0	0.2	0.198	99.%	2.6%
o-Xylene-mg/kg	0204501-08	0	0.1	0.095	95.%	2.1%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003173-05		0.1	0.086	86.%	
Ethylbenzene-mg/kg	0003173-05		0.1	0.085	85.%	
Toluene-mg/kg	0003173-05		0.1	0.085	85.%	
p/m-Xylene-mg/kg	0003173-05		0.2	0.174	87.%	
o-Xylene-mg/kg	0003173-05		0.1	0.085	85.%	

CASE NARRATIVE
ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204501
Project: Linman 6"

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691002BH4-5'	0204501-01	SOIL	09/10/2002	09/12/2002
SEL691002BH4-10'	0204501-02	SOIL	09/10/2002	09/12/2002
SEL691002BH4-15'	0204501-03	SOIL	09/10/2002	09/12/2002
SEL691002BH5-10'	0204501-04	SOIL	09/10/2002	09/12/2002
SEL691002BH5-15'	0204501-05	SOIL	09/10/2002	09/12/2002
SEL691002BH5-20'	0204501-06	SOIL	09/10/2002	09/12/2002
SEL691002BH5-25'	0204501-07	SOIL	09/10/2002	09/12/2002
SEL691002BH5-30'	0204501-08	SOIL	09/10/2002	09/12/2002

The surrogate recoveries are higher than the control limits on samples 4-7 because of interference from the coeluting compounds.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Ralph K. Tuttle Date: 9-18-02
Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ~~Jeff McCasland~~ Frank Hernandez
Company Name: ~~Environmental Plus Inc~~ E+H
Company Address: ~~2100 Ave O~~
City/State/Zip: ~~Eunice N.M. 88231~~ Midland Tx
Telephone No: ~~505-394-3481~~ Fax No: ~~505-394-2601~~
Sampler Signature: Bradley Blevins

Project Name: Linam 6"
Project #: 2002-10235
Project Loc:
PO #:

LAB # (lab use only) 020451	FIELD CODE	Date Sampled	Time Sampled	No of Containers	Preservative: Ice	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: NaOH	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (Specify)	Analyze For: TCLP VOC	Analyze For: TCLP SVOC	Analyze For: TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Analyze For: TCLP Pesticides	Analyze For: TCLP Herbicides	Analyze For: TCLP Volatiles	Analyze For: TCLP Semivolatiles	Analyze For: TOTAL TPH TX 1005/1006	Analyze For: TOTAL Metals Ag As Ba Cd Cr Pb Hg Se	Analyze For: TOTAL Volatiles	Analyze For: TOTAL Semivolatiles	Analyze For: TOTAL BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
01	SEL691002BH4-5'	9-10-02	8:00	1	X								X				X						X			X		
02	SEL691002BH4-10'	9-10-02	8:15	1	X								X				X						X			X		
03	SEL691002BH4-15'	9-10-02	8:35	1	X								X				X						X			X		
04	SEL691002BH5-10'	9-10-02	9:30	1	X								X				X						X			X		
05	SEL691002BH5-15'	9-10-02	10:00	1	X								X				X						X			X		
06	SEL691002BH5-20'	9-10-02	11:00	1	X								X				X						X			X		
07	SEL691002BH5-25'	9-10-02	12:30	1	X								X				X						X			X		
08	SEL691002BH5-30'	9-10-02	1:40	1	X								X				X						X			X		

Special Instructions:

Sample Containers intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 1.0°C

Relinquished by	Date	Time	Received by	Date	Time
Bradley Blevins	9-10-02	3:00	Cody Mitchell		
Relinquished by	Date	Time	Received by ELOT	Date	Time
Cody Mitchell			RL dK Jr	9-12-02	1055

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6"
PO#:	2002-10235
Order#:	G0204502
Report Date:	09/17/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204502
Project: 2002-10235
Project Name: Linman 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
0204502-01	SEL691102BH6-5'	SOIL	9/11/02 8:20	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-02	SEL691102BH6-10'	SOIL	9/11/02 8:40	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-03	SEL691102BH6-15'	SOIL	9/11/02 9:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-04	SEL691102BH7-5'	SOIL	9/11/02 9:30	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-05	SEL691102BH7-10'	SOIL	9/11/02 10:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-06	SEL691102BH7-15'	SOIL	9/11/02 10:25	9/12/02 10:55	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.0 C		
0204502-07	SEL691102BH8-5'	SOIL	9/11/02 11:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204502
Project: 2002-10235
Project Name: Linman 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
	8015M 8021B/5030 BTEX					
0204502-08	SEL691102BH8-10'	SOIL	9/11/02 11:25	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204502-09	SEL691102BH8-15'	SOIL	9/11/02 12:00	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204502-10	SEL691102BH9-10'	SOIL	9/11/02 13:20	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204502-11	SEL691102BH9-15'	SOIL	9/11/02 13:45	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204502-12	SEL691102BH9-20'	SOIL	9/11/02 14:20	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					
0204502-13	SEL691102BH9-25'	SOIL	9/11/02 15:15	9/12/02 10:55	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.0 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204502
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204502-01
Sample ID: SEL691102BH6-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/16/02 23:39	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<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	97%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-02
Sample ID: SEL691102BH6-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 0:01	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	105%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-03
Sample ID: SEL691102BH6-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 0:23	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	99%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-04
Sample ID: SEL691102BH7-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 0:46	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	100%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-05
Sample ID: SEL691102BH7-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 1:07	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<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	100%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-06
Sample ID: SEL691102BII7-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 1:29	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	80	120
Bromofluorobenzene	100%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-07
Sample ID: SEL691102BH8-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 1:52	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	102%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-10
Sample ID: SEL691102BH9-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10600	100
DRO, >C12-C35	12400	100
TOTAL, C6-C35	23000	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 2:58	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	23.9	0.200
Ethylbenzene	73.8	0.200
Toluene	111	0.200
p/m-Xylene	146	0.200
o-Xylene	70.9	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	968%	80	120
Bromofluorobenzene	149%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-11
Sample ID: SEL691102BH9-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1,220	10.0
DRO, >C12-C35	1,500	10.0
TOTAL, C6-C35	2,720	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 3:20	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	2.36	0.200
Ethylbenzene	17.7	0.200
Toluene	17.7	0.200
p/m-Xylene	30.2	0.200
o-Xylene	12.8	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	160%	80	120
Bromofluorobenzene	124%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-12
Sample ID: SEL691102BH9-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 9:20	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.031	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.096	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	108%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204502-13
Sample ID: SEL691102BH9-25'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/14/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003161-02		9/17/02 9:42	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	99%	80	120

Approval: Raland K Tuttle 9-19-02
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

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204502

Project: Linman 6"

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691102BH6-5'	0204502-01	SOIL	09/11/2002	09/12/2002
SEL691102BH6-10'	0204502-02	SOIL	09/11/2002	09/12/2002
SEL691102BH6-15'	0204502-03	SOIL	09/11/2002	09/12/2002
SEL691102BH7-5'	0204502-04	SOIL	09/11/2002	09/12/2002
SEL691102BH7-10'	0204502-05	SOIL	09/11/2002	09/12/2002
SEL691102BH7-15'	0204502-06	SOIL	09/11/2002	09/12/2002
SEL691102BH8-5'	0204502-07	SOIL	09/11/2002	09/12/2002
SEL691102BH8-10'	0204502-08	SOIL	09/11/2002	09/12/2002
SEL691102BH8-15'	0204502-09	SOIL	09/11/2002	09/12/2002
SEL691102BH9-10'	0204502-10	SOIL	09/11/2002	09/12/2002
SEL691102BH9-15'	0204502-11	SOIL	09/11/2002	09/12/2002
SEL691102BH9-20'	0204502-12	SOIL	09/11/2002	09/12/2002
SEL691102BH9-25'	0204502-13	SOIL	09/11/2002	09/12/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds for sample ID #0204502-10 & 0204502-11.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K Tuttle Date: 9-19-02

Environmental Lab of Texas I, Ltd.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204502

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003147-02			<10.0		
TOTAL, C6-C35-mg/kg	0003156-02			<10.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204500-04	0	952	1100	115.5%	
TOTAL, C6-C35-mg/kg	0204502-08	0	952	1080	113.4%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204500-04	0	952	1080	113.4%	1.8%
TOTAL, C6-C35-mg/kg	0204502-08	0	952	1140	119.7%	5.4%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003147-05		1000	1040	104.%	
TOTAL, C6-C35-mg/kg	0003156-05		1000	1190	119.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204502

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003161-02			<0.025		
Ethylbenzene-mg/kg	0003161-02			<0.025		
Toluene-mg/kg	0003161-02			<0.025		
p/m-Xylene-mg/kg	0003161-02			<0.025		
o-Xylene-mg/kg	0003161-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204502-13	0	0.1	0.103	103.%	
Ethylbenzene-mg/kg	0204502-13	0	0.1	0.106	106.%	
Toluene-mg/kg	0204502-13	0	0.1	0.107	107.%	
p/m-Xylene-mg/kg	0204502-13	0	0.2	0.220	110.%	
o-Xylene-mg/kg	0204502-13	0	0.1	0.104	104.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204502-13	0	0.1	0.094	94.%	9.1%
Ethylbenzene-mg/kg	0204502-13	0	0.1	0.097	97.%	8.9%
Toluene-mg/kg	0204502-13	0	0.1	0.098	98.%	8.8%
p/m-Xylene-mg/kg	0204502-13	0	0.2	0.202	101.%	8.5%
o-Xylene-mg/kg	0204502-13	0	0.1	0.096	96.%	8.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0003161-05		0.1	0.086	86.%	
Ethylbenzene-mg/kg	0003161-05		0.1	0.085	85.%	
Toluene-mg/kg	0003161-05		0.1	0.085	85.%	
p/m-Xylene-mg/kg	0003161-05		0.2	0.174	87.%	
o-Xylene-mg/kg	0003161-05		0.1	0.085	85.%	

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Pat McCasland Frank Hernandez
Company Name: Environmental Plus Inc Eott
Company Address: 2100 Ave Q
City/State/Zip: Eunice N.M 88231
Telephone No: ~~505-394-3481~~ Fax No: ~~505-394-2601~~
Sampler Signature: Bradley Blan

Project Name: Linam 6"
Project #: 2002-10235
Project Loc:
PO #:

020492

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No of Containers	Preservative: ICE	Matrix: Soil	Analyze For: TPH TX 1005-1006	TPH 8015M GRO/DRO	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
01	SEL691102BH6-5'	9-11-02	8:20	1	X	X		X	X		
02	SEL691102BH6-10'	9-11-02	8:40	1	X	X		X	X		
03	SEL691102BH6-15'	9-11-02	9:00	1	X	X		X	X		
04	SEL691102BH7-5'	9-11-02	9:30	1	X	X		X	X		
05	SEL691102BH7-10'	9-11-02	10:00	1	X	X		X	X		
06	SEL691102BH7-15'	9-11-02	10:25	1	X	X		X	X		
07	SEL691102BH8-5'	9-11-02	11:00	1	X	X		X	X		
08	SEL691102BH8-10'	9-11-02	11:25	1	X	X		X	X		
09	SEL691102BH8-15'	9-11-02	12:00	1	X	X		X	X		
10	SEL691102BH9-10'	9-11-02	1:20	1	X	X		X	X		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 1.0°

Relinquished by	Date	Time	Received by	Date	Time
Bradley Blan	9-11-02		Cindy Mills		
Relinquished by	Date	Time	Received by ELOT	Date	Time
Cindy Mills			R.L. & K. Tan	9-12-02	1055

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: ~~Pat McCasland~~ Frank Hernandez
Company Name: ~~Environmental Plus Inc~~
Company Address: ~~300 Ave O~~
City/State/Zip: ~~Eunice N.M. 88231~~
Telephone No: ~~505-394-3481~~ Fax No: ~~505-394-2601~~
Sampler Signature: Bradley Blair

Project Name: Linam 6"
Project #: 2002-10235
Project Loc:
PO #:

020452

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
1	SEL69102BH9-15'	9-11-02	1:45	1	X									X					X				X		
2	SEL69102BH9-20'	9-11-02	2:20	1	X									X					X				X		
3	SEL69102BH9-25'	9-11-02	3:15	1	X									X					X				X		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 1.0°

Relinquished by	Date	Time	Received by	Date	Time
Bradley Blair	9-11-02	4:00	Cindy Miller		
Relinquished by	Date	Time	Received by ELOT	Date	Time
Cindy Miller			Rebecca Jones	9-12-02	1055

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman Line 6"
PO#:	2002-10235
Order#:	G0204544
Report Date:	09/24/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 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
0204544-01	SEL691202BH10 5'	SOIL	9/12/02 7:30	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-02	SEL691202BH10 10'	SOIL	9/12/02 7:50	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-03	SEL691202BH10 15'	SOIL	9/12/02 8:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-04	SEL691202BH10 20'	SOIL	9/12/02 8:35	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-05	SEL691202BH10 25'	SOIL	9/12/02 9:05	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-06	SEL691202BH10 30'	SOIL	9/12/02 9:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204544-07	SEL691202BH10 35'	SOIL	9/12/02 14:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 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
	8015M 8021B/5030 BTEX					
0204544-08	SEL691202BH10 40'	SOIL	9/12/02 15:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204544
Project:	2002-10235
Project Name:	Linman Line 6"
Location:	None Given

Lab ID: 0204544-01
Sample ID: SEL691202BH10 5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	7560	50.0
DRO, >C12-C35	7030	50.0
TOTAL, C6-C35	14590	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 2:40	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	43.9	0.100
Ethylbenzene	99.0	0.100
Toluene	160	0.100
p/m-Xylene	141	0.100
o-Xylene	63.8	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1890%	80	120
Bromofluorobenzene	150%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 6"
Location: None Given

Lab ID: 0204544-02
Sample ID: SEL691202BH10 10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	22000	50.0
DRO, >C12-C35	25100	50.0
TOTAL, C6-C35	47100	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 3:02	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	101	0.200
Ethylbenzene	197	0.200
Toluene	325	0.200
p/m-Xylene	280	0.200
o-Xylene	127	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	2000%	80	120
Bromofluorobenzene	148%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 6"
Location: None Given

Lab ID: 0204544-03
Sample ID: SEL691202BH10 15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	16700	100
DRO, >C12-C35	18100	100
TOTAL, C6-C35	34800	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 3:24	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	101	0.200
Ethylbenzene	173	0.200
Toluene	308	0.200
p/m-Xylene	260	0.200
o-Xylene	117	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1690%	80	120
Bromofluorobenzene	152%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 6"
Location: None Given

Lab ID: 0204544-04
Sample ID: SEL691202BH10 20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	15300	100
DRO, >C12-C35	15800	100
TOTAL, C6-C35	31100	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 3:46	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	76.1	0.200
Ethylbenzene	146	0.200
Toluene	252	0.200
p/m-Xylene	225	0.200
o-Xylene	102	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1700%	80	120
Bromofluorobenzene	147%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Lipman Line 6"
Location: None Given

Lab ID: 0204544-05
Sample ID: SEL691202BH10 25'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12000	100
DRO, >C12-C35	11400	100
TOTAL, C6-C35	23400	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 4:08	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	66.2	0.200
Ethylbenzene	132	0.200
Toluene	234	0.200
p/m-Xylene	197	0.200
o-Xylene	87.3	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1700%	80	120
Bromofluorobenzene	266%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204544
Project:	2002-10235
Project Name:	Linman Line 6"
Location:	None Given

Lab ID: 0204544-06
Sample ID: SEL691202BH10 30'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	13800	50.0
DRO, >C12-C35	14400	50.0
TOTAL, C6-C35	28200	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 4:31	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	80.5	0.200
Ethylbenzene	164	0.200
Toluene	271	0.200
p/m-Xylene	235	0.200
o-Xylene	105	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1680%	80	120
Bromofluorobenzene	160%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Linman Line 6"
Location: None Given

Lab ID: 0204544-07
Sample ID: SEL691202BH10 35'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10600	50.0
DRO, >C12-C35	12300	50.0
TOTAL, C6-C35	22900	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 4:53	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	35.6	0.100
Ethylbenzene	98.1	0.100
Toluene	143	0.100
p/m-Xylene	141	0.100
o-Xylene	67.1	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1980%	80	120
Bromofluorobenzene	171%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544
Project: 2002-10235
Project Name: Lisman Line 6"
Location: None Given

Lab ID: 0204544-08
Sample ID: SEL691202BH10 40'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	16400	100
DRO, >C12-C35	16400	100
TOTAL, C6-C35	32800	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 5:15	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	90.9	0.200
Ethylbenzene	168	0.200
Toluene	285	0.200
p/m-Xylene	245	0.200
o-Xylene	112	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1900%	80	120
Bromofluorobenzene	161%	80	120

Approval: Celey D. Keene 9/25/02
Date

Raland K. Tuttle, Lab Director, QA Officer
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#: G0204544

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003181-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-03		952	1120	117.6%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-04		952	1120	117.6%	0.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-05		1000	1120	112.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204544

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003198-02			<0.025		
Ethylbenzene-mg/kg	0003198-02			<0.025		
Toluene-mg/kg	0003198-02			<0.025		
p/m-Xylene-mg/kg	0003198-02			<0.025		
o-Xylene-mg/kg	0003198-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204546-03	0	0.1	0.102	102.%	
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.108	108.%	
Toluene-mg/kg	0204546-03	0	0.1	0.108	108.%	
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.226	113.%	
o-Xylene-mg/kg	0204546-03	0	0.1	0.106	106.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0204546-03	0	0.1	0.100	100.%	2.%
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.109	109.%	0.9%
Toluene-mg/kg	0204546-03	0	0.1	0.104	104.%	3.8%
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.225	112.5%	0.4%
o-Xylene-mg/kg	0204546-03	0	0.1	0.105	105.%	0.9%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0003198-05		0.1	0.101	101.%	
Ethylbenzene-mg/kg	0003198-05		0.1	0.105	105.%	
Toluene-mg/kg	0003198-05		0.1	0.107	107.%	
p/m-Xylene-mg/kg	0003198-05		0.2	0.218	109.%	
o-Xylene-mg/kg	0003198-05		0.1	0.104	104.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204544

Project: Linman Line 6"

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691202BH10 5'	0204544-01	SOIL	09/12/2002	09/18/2002
SEL691202BH10 10	0204544-02	SOIL	09/12/2002	09/18/2002
SEL691202BH10 15	0204544-03	SOIL	09/12/2002	09/18/2002
SEL691202BH10 20	0204544-04	SOIL	09/12/2002	09/18/2002
SEL691202BH10 25	0204544-05	SOIL	09/12/2002	09/18/2002
SEL691202BH10 30	0204544-06	SOIL	09/12/2002	09/18/2002
SEL691202BH10 35	0204544-07	SOIL	09/12/2002	09/18/2002
SEL691202BH10 40	0204544-08	SOIL	09/12/2002	09/18/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____ Date: 9/25/02

Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
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: 915-638-3799
Sampler Signature: Bradley Blevins

Project Name: Linman Line 6"
Project #: 2002-10235
Project Loc:
PO#:

4o2 9/4/55

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	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	Reactivity	Corrosivity	Ignitability				RUSH TAT	Standard TAT
01	SEL691202BH10 5'	09/12/2002	7:30	1	X									X					X				X								
02	SEL691202BH10 10'	09/12/2002	7:50	1	X									X					X				X								
03	SEL691202BH10 15'	09/12/2002	8:15	1	X									X					X				X								
04	SEL691202BH10 20'	09/12/2002	8:35	1	X									X					X				X								
05	SEL691202BH10 25'	09/12/2002	9:05	1	X									X					X				X								
06	SEL691202BH10 30'	09/12/2002	9:40	1	X									X					X				X								
07	SEL691202BH10 35'	09/12/2002	2:00	1	X									X					X				X								
08	SEL691202BH10 40'	09/12/2002	3:00	1	X									X					X				X								

Special Instructions

FAX RESULTS TO PAT MCCASLAND ASAP

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

Relinquished:	Date	Time	Received by:	Date	Time
Bradley Blevins					
Relinquished:	Date	Time	Received by:	Date	Time
	9-18-02	1520	Jeanne McMurrey	9-18-02	1520

Sep 25 02 03:41p

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6"
PO#:	2002-10235
Order#:	G0204545
Report Date:	09/24/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204545
Project: 2002-10235
Project Name: Linman 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
0204545-01	SEL691302BH10-45'	SOIL	9/13/02 8:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204545-02	SEL691302BH10-50'	SOIL	9/13/02 9:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204545-03	SEL691302BH10-55'	SOIL	9/13/02 11:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204545
Project: 2002-10235
Project Name: Linman 6"
Location: None Given

Lab ID: 0204545-01
Sample ID: SEL691302BH10-45'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	3480	50.0
DRO, >C12-C35	3970	50.0
TOTAL, C6-C35	7450	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/23/02 21:56	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	25.7	0.100
Ethylbenzene	66.4	0.100
Toluene	109	0.100
p/m-Xylene	100	0.100
o-Xylene	44.7	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1310%	80	120
Bromofluorobenzene	134%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204545
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204545-02
Sample ID: SEL691302BH10-50'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	15.3	10.0
DRO, >C12-C35	21.9	10.0
TOTAL, C6-C35	37.2	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/23/02 21:34	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	974%	80	120
Bromofluorobenzene	128%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204545
Project:	2002-10235
Project Name:	Linman 6"
Location:	None Given

Lab ID: 0204545-03
Sample ID: SEL691302BH10-55'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 16:45	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	102%	80	120

Approval: Celey D. Keene 9/25/02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biczugbe, 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#: G0204545

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003181-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-03		952	1120	117.6%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-04		952	1120	117.6%	0.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003181-05		1000	1120	112.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204545

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003198-02			<0.025		
Ethylbenzene-mg/kg	0003198-02			<0.025		
Toluene-mg/kg	0003198-02			<0.025		
p/m-Xylene-mg/kg	0003198-02			<0.025		
o-Xylene-mg/kg	0003198-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-03	0	0.1	0.102	102.%	
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.108	108.%	
Toluene-mg/kg	0204546-03	0	0.1	0.108	108.%	
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.226	113.%	
o-Xylene-mg/kg	0204546-03	0	0.1	0.106	106.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-03	0	0.1	0.100	100.%	2.%
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.109	109.%	0.9%
Toluene-mg/kg	0204546-03	0	0.1	0.104	104.%	3.8%
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.225	112.5%	0.4%
o-Xylene-mg/kg	0204546-03	0	0.1	0.105	105.%	0.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003198-05		0.1	0.101	101.%	
Ethylbenzene-mg/kg	0003198-05		0.1	0.105	105.%	
Toluene-mg/kg	0003198-05		0.1	0.107	107.%	
p/m-Xylene-mg/kg	0003198-05		0.2	0.218	109.%	
o-Xylene-mg/kg	0003198-05		0.1	0.104	104.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204545

Project: Linman 6"

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691302BH10-45'	0204545-01	SOIL	09/13/2002	09/18/2002
SEL691302BH10-50'	0204545-02	SOIL	09/13/2002	09/18/2002
SEL691302BH10-55'	0204545-03	SOIL	09/13/2002	09/18/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____ Date: 9/25/02

Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
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: 915-638-3799
Sampler Signature: Bradley Blevins

Project Name: LINAM 6"
Project #: 2002-10235
Project Loc.:
PO#:

Analyze For: TCLP / TOTAL

0204545		Date Sampled	Time Sampled	No. of Containers 4oz glass	ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TDS/CL/SAR/E C	TPH 418.1	TPH TX 1005/10.06	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	Reactivity	Corrosivity	Ignitiability			RUSH TAT	Standard TAT
01	SEL6913028H10-5'	9-13-02	8:15	1	X									X					x				x							
02	SEL6913028H10-50'	9-13-02	9:40	1	X									X					X				X							
03	SEL6913028H10-55'	9-13-02	11:30	1	X									X					X				X							

Special Instructions:
FAX RESULTS TO PAT MCCASLAND ASAP

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

Relinquished	Date	Time	Received by:	Date	Time
Bradley Blevins					
Relinquished	Date	Time	Received by	Date	Time
	9-18-02	1520	Jeanne McMurrey	9-18-02	1520

Sep 25 02 04:32p

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6" Line
PO#:	2002-10235
Order#:	G0204546
Report Date:	09/30/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
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
0204546-01	SEL691602BH11-5'	SOIL	9/16/02 8:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-02	SEL691602BH11-10'	SOIL	9/16/02 8:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-03	SEL691602BH11-15'	SOIL	9/16/02 8:35	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-04	SEL691602BH12-5'	SOIL	9/16/02 9:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-05	SEL691602BH12-10'	SOIL	9/16/02 9:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-06	SEL691602BH12-15'	SOIL	9/16/02 9:25	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204546-07	SEL691602BH12-20'	SOIL	9/16/02 9:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
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
0204546-01	SEL691602BH11-5'	SOIL	9/16/02 8:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-02	SEL691602BH11-10'	SOIL	9/16/02 8:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-03	SEL691602BH11-15'	SOIL	9/16/02 8:35	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-04	SEL691602BH12-5'	SOIL	9/16/02 9:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-05	SEL691602BH12-10'	SOIL	9/16/02 9:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-06	SEL691602BH12-15'	SOIL	9/16/02 9:25	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204546-07	SEL691602BH12-20'	SOIL	9/16/02 9:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
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
0204546-14	WEL691602BH10MW	WATER	9/16/02 15:15	9/18/02 15:20	40 ml glass	Icc, HCl

Lab Testing: 8021B/5030 BTEX

Rejected: No Temp: 1.5 C

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204546
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204546-01
Sample ID: SEL691602BH11-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 17:07	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	103%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-02
Sample ID: SEL691602BH11-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 17:29	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<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	92%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204546
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204546-03
Sample ID: SEL691602BH11-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003198-02		9/21/02 17:51	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	97%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-04
Sample ID: SEL691602BH12-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	2740	50.0
DRO, >C12-C35	2840	50.0
TOTAL, C6-C35	5580	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 22:18	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	17.1	0.100
Ethylbenzene	46.5	0.100
Toluene	73.5	0.100
p/m-Xylene	74.6	0.100
o-Xylene	33.7	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1110%	80	120
Bromofluorobenzene	130%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-05
Sample ID: SEL691602BH12-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	4500	50.0
DRO, >C12-C35	5930	50.0
TOTAL, C6-C35	10430	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 22:40	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	11.8	0.100
Ethylbenzene	45.7	0.100
Toluene	60.3	0.100
p/m-Xylene	72.0	0.100
o-Xylene	33.0	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	947%	80	120
Bromofluorobenzene	136%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204546
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204546-06
Sample ID: SEL691602BH12-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 13:00	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.030	0.025
Toluene	0.028	0.025
p/m-Xylene	0.063	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	89%	80	120
Bromofluorobenzene	100%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-07
Sample ID: SEL691602BH12-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 13:22	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.038	0.025
Toluene	0.045	0.025
p/m-Xylene	0.099	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	101%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204546
Project:	2002-10235
Project Name:	Lipman 6" Line
Location:	None Given

Lab ID: 0204546-08
Sample ID: SEL691602BH13-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 13:44	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.026	0.025
Ethylbenzene	0.188	0.025
Toluene	0.164	0.025
p/m-Xylene	0.500	0.025
o-Xylene	0.142	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	109%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Lisman 6" Line
Location: None Given

Lab ID: 0204546-09
Sample ID: SEL691602BH13-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/21/02 21:33	1	25	CK	8021B

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

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ		Order#:	G0204546
ENRON TRANSPORTATION SYSTEMS		Project:	2002-10235
5805 E. HWY. 80		Project Name:	Linman 6" Line
MIDLAND, TX 79706		Location:	None Given

Lab ID: 0204546-10
Sample ID: SEL691602BH13-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/21/02 21:55	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	106%	80	120
Bromofluorobenzene	104%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-11
Sample ID: SEL691602BH14-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/21/02 22:17	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	106%	80	120
Bromofluorobenzene	106%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-12
Sample ID: SEL691602BH14-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/21/02 22:39	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	103%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204546
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204546-13
Sample ID: SEL691602BH14-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/21/02 23:02	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	100%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ		Order#:	G0204546
ENRON TRANSPORTATION SYSTEMS		Project:	2002-10235
5805 E. HWY. 80		Project Name:	Linman 6" Line
MIDLAND, TX 79706		Location:	None Given

Lab ID: 0204546-14
Sample ID: WEL691602BH10MW

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003245-02		9/27/02 17:21	1	10	CK	8021B

Parameter	Result mg/L	RL
Benzene	**0.482**	0.010
Ethylbenzene	**0.246**	0.010
Toluene	**1.08**	0.010
p/m-Xylene	**0.362**	0.010
o-Xylene	**0.155**	0.010

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	92%	80	120

Approval: Raland K Tuttle 9-30-02
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#: G0204546

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003201-02			<10.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204546-02	0	952	1180	123.9%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204546-02	0	952	1190	125.%	0.8%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003201-05		1000	1220	122.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204546

BLANK SOIL	LAB-ID #	Sample Conceotr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003198-02			<0.025		
Benzene-mg/kg	0003199-02			<0.025		
Benzene-mg/L	0003245-02			<0.001		
Ethylbenzene-mg/kg	0003198-02			<0.025		
Ethylbenzene-mg/kg	0003199-02			<0.025		
Ethylbenzene-mg/L	0003245-02			<0.001		
Toluene-mg/kg	0003198-02			<0.025		
Toluene-mg/kg	0003199-02			<0.025		
Toluene-mg/L	0003245-02			<0.001		
p/m-Xylene-mg/kg	0003198-02			<0.025		
p/m-Xylene-mg/kg	0003199-02			<0.025		
p/m-Xylene-mg/L	0003245-02			<0.001		
o-Xylene-mg/kg	0003198-02			<0.025		
o-Xylene-mg/kg	0003199-02			<0.025		
o-Xylene-mg/L	0003245-02			<0.001		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-03	0	0.1	0.102	102.%	
Benzene-mg/kg	0204546-13	0	0.1	0.110	110.%	
Benzene-mg/L	0204610-04	0	0.1	0.096	96.%	
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.108	108.%	
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.115	115.%	
Ethylbenzene-mg/L	0204610-04	0	0.1	0.098	98.%	
Toluene-mg/kg	0204546-03	0	0.1	0.108	108.%	
Toluene-mg/kg	0204546-13	0	0.1	0.114	114.%	
Toluene-mg/L	0204610-04	0	0.1	0.100	100.%	
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.226	113.%	
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.230	115.%	
p/m-Xylene-mg/L	0204610-04	0	0.2	0.208	104.%	
o-Xylene-mg/kg	0204546-03	0	0.1	0.106	106.%	
o-Xylene-mg/kg	0204546-13	0	0.1	0.113	113.%	
o-Xylene-mg/L	0204610-04	0	0.1	0.098	98.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-03	0	0.1	0.100	100.%	2.%
Benzene-mg/kg	0204546-13	0	0.1	0.108	108.%	1.8%
Benzene-mg/L	0204610-04	0	0.1	0.102	102.%	6.1%
Ethylbenzene-mg/kg	0204546-03	0	0.1	0.109	109.%	0.9%
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.113	113.%	1.8%
Ethylbenzene-mg/L	0204610-04	0	0.1	0.104	104.%	5.9%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204546

MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg	0204546-03	0	0.1	0.104	104.%	3.8%
Toluene-mg/kg	0204546-13	0	0.1	0.112	112.%	1.8%
Toluene-mg/L	0204610-04	0	0.1	0.105	105.%	4.9%
p/m-Xylene-mg/kg	0204546-03	0	0.2	0.225	112.5%	0.4%
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.228	114.%	0.9%
p/m-Xylene-mg/L	0204610-04	0	0.2	0.221	110.5%	6.1%
o-Xylene-mg/kg	0204546-03	0	0.1	0.105	105.%	0.9%
o-Xylene-mg/kg	0204546-13	0	0.1	0.111	111.%	1.8%
o-Xylene-mg/L	0204610-04	0	0.1	0.105	105.%	6.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003198-05		0.1	0.101	101.%	
Benzene-mg/kg	0003199-05		0.1	0.104	104.%	
Benzene-mg/L	0003245-05		0.1	0.095	95.%	
Ethylbenzene-mg/kg	0003198-05		0.1	0.105	105.%	
Ethylbenzene-mg/kg	0003199-05		0.1	0.109	109.%	
Ethylbenzene-mg/L	0003245-05		0.1	0.097	97.%	
Toluene-mg/kg	0003198-05		0.1	0.107	107.%	
Toluene-mg/kg	0003199-05		0.1	0.108	108.%	
Toluene-mg/L	0003245-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg	0003198-05		0.2	0.218	109.%	
p/m-Xylene-mg/kg	0003199-05		0.2	0.230	115.%	
p/m-Xylene-mg/L	0003245-05		0.2	0.207	103.5%	
o-Xylene-mg/kg	0003198-05		0.1	0.104	104.%	
o-Xylene-mg/kg	0003199-05		0.1	0.108	108.%	
o-Xylene-mg/L	0003245-05		0.1	0.098	98.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: **G0204546**

Project: **Linman 6" Line**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691602BH11-5'	0204546-01	SOIL	09/16/2002	09/18/2002
SEL691602BH11-10'	0204546-02	SOIL	09/16/2002	09/18/2002
SEL691602BH11-15'	0204546-03	SOIL	09/16/2002	09/18/2002
SEL691602BH12-5'	0204546-04	SOIL	09/16/2002	09/18/2002
SEL691602BH12-10'	0204546-05	SOIL	09/16/2002	09/18/2002
SEL691602BH12-15'	0204546-06	SOIL	09/16/2002	09/18/2002
SEL691602BH12-20'	0204546-07	SOIL	09/16/2002	09/18/2002
SEL691602BH13-5'	0204546-08	SOIL	09/16/2002	09/18/2002
SEL691602BH13-10'	0204546-09	SOIL	09/16/2002	09/18/2002
SEL691602BH13-15'	0204546-10	SOIL	09/16/2002	09/18/2002
SEL691602BH14-5'	0204546-11	SOIL	09/16/2002	09/18/2002
SEL691602BH14-10'	0204546-12	SOIL	09/16/2002	09/18/2002
SEL691602BH14-15'	0204546-13	SOIL	09/16/2002	09/18/2002
WEL691602BH10M	0204546-14	WATER	09/16/2002	09/18/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K Tuttle Date: 9-30-02

Environmental Lab of Texas I, Ltd.

Enviro(ental Lab of Texas, Inc.

2600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
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: 915-638-3799
Sampler Signature: Bradley Blair

Project Name: Linam 6" Lines
Project #: 2002-10235
Project Loc:
PO#:

020454		Date Sampled	Time Sampled	No of Containers	ICE 4oz glass	HNO	HCl 40ml VOA glass	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	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	Reactivity	Corrosivity	Ignitiability				RUSH TAT	Standard TAT
01	SEL691602BH11-5'	9-16-02	8:00	1	X									X					X				X								
02	SEL691602BH11-10'	9-16-02	8:15	1	X									X					X				X								
03	SEL691602BH11-15'	9-16-02	8:35	1	X									X					X				X								
04	SEL691602BH12-5'	9-16-02	9:00	1	X									X					X				X								
05	SEL691602BH12-10'	9-16-02	9:15	1	X									X					X				X								
06	SEL691602BH12-15'	9-16-02	9:25	1	X									X					X				X								
07	SEL691602BH12-20'	9-16-02	9:40	1	X									X					X				X								
08	SEL691602BH13-5'	9-16-02	10:15	1	X									X					X				X								
09	SEL691602BH13-10'	9-16-02	10:30	1	X									X					X				X								
10	SEL691602BH13-15'	9-16-02	10:50	1	X									X					X				X								
11	SEL691602BH14-5'	9-16-02	1:00	1	X									X					X				X								
12	SEL691602BH14-10'	9-16-02	2:00	1	X									X					X				X								
13	SEL691602BH14-15'	9-16-02	2:45	1	X									X					X				X								
14	SEL691602BH10MW	9-16-02	3:15	2	X		X					X							BB				X								

Special Instructions:
FAX RESULTS TO PAT MCCASLAND ASAP

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

Relinquished	Date	Time	Received by	Date	Time
Bradley Blair					
Relinquished	Date	Time	Received by	Date	Time
	9-18-02	1520	Jane McMurrey	9-18-02	1520

COPY

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Project:	Linman 6" Line
PO#:	2002-10235
Order#:	G0204548
Report Date:	09/24/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
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
0204548-01	SEL691702BH15-5'	SOIL	9/17/02 8:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-02	SEL691702BH15-10'	SOIL	9/17/02 8:30	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-03	SEL691702BH15-15'	SOIL	9/17/02 8:50	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-04	SEL691702BH15-20'	SOIL	9/17/02 9:05	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-05	SEL691702BH16-5'	SOIL	9/17/02 11:15	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-06	SEL691702BH16-10'	SOIL	9/17/02 11:35	9/18/02 15:20	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX	Rejected: No		Temp: 1.5 C		
0204548-07	SEL691702BH16-15'	SOIL	9/17/02 11:50	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 1.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706
915-684-3456

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
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
	8015M 8021B/5030 BTEX					
0204548-08	SEL691702BH16-20'	SOIL	9/17/02 12:40	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M 8021B/5030 BTEX					
0204548-09	SEL691702BH16-25'	SOIL	9/17/02 13:20	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M 8021B/5030 BTEX					
0204548-10	SEL691702BH16-30'	SOIL	9/17/02 14:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M 8021B/5030 BTEX					
0204548-11	SEL691702BH16-35'	SOIL	9/17/02 14:45	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204548
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204548-01
Sample ID: SEL691702BH15-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	8060	100
DRO, >C12-C35	7970	100
TOTAL, C6-C35	16030	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 23:02	1	500	CK	8021B

Parameter	Result mg/kg	RL
Benzene	39.8	0.500
Ethylbenzene	248	0.500
Toluene	296	0.500
p/m-Xylene	517	0.500
o-Xylene	263	0.500

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	864%	80	120
Bromofluorobenzene	160%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204548
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204548-02
Sample ID: SEL691702BH15-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/19/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	19600	100
DRO, >C12-C35	18300	100
TOTAL, C6-C35	37900	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 23:24	1	1000	CK	8021B

Parameter	Result mg/kg	RL
Benzene	97.1	1.00
Ethylbenzene	474	1.00
Toluene	572	1.00
p/m-Xylene	926	1.00
o-Xylene	481	1.00

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1070%	80	120
Bromofluorobenzene	167%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-03
Sample ID: SEL691702BH15-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	21.0	10.0
TOTAL, C6-C35	21.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/22/02 13:37	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	109%	80	120
Bromofluorobenzene	107%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-04
Sample ID: SEL691702BH15-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/22/02 13:59	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	104%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-05
Sample ID: SEL691702BH16-5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	3950	50.0
DRO, >C12-C35	4000	50.0
TOTAL, C6-C35	7950	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 23:46	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	5.37	0.200
Ethylbenzene	35.9	0.200
Toluene	43.2	0.200
p/m-Xylene	73.1	0.200
o-Xylene	31.0	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	514%	80	120
Bromofluorobenzene	135%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#:	G0204548
Project:	2002-10235
Project Name:	Linman 6" Line
Location:	None Given

Lab ID: 0204548-06
Sample ID: SEL691702BH16-10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	7630	100
DRO, >C12-C35	7860	100
TOTAL, C6-C35	15490	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/24/02 14:49	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	28.2	0.200
Ethylbenzene	98.0	0.200
Toluene	140	0.200
p/m-Xylene	154	0.200
o-Xylene	67.8	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	966%	80	120
Bromofluorobenzene	135%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Lluman 6" Line
Location: None Given

Lab ID: 0204548-07
Sample ID: SEL691702BH16-15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	11400	100
DRO, >C12-C35	12100	100
TOTAL, C6-C35	23500	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/24/02 15:11	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	27.9	0.200
Ethylbenzene	120	0.200
Toluene	187	0.200
p/m-Xylene	185	0.200
o-Xylene	78.5	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1100%	80	120
Bromofluorobenzene	126%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Lisman 6" Line
Location: None Given

Lab ID: 0204548-08
Sample ID: SEL691702BH16-20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	8880	100
DRO, >C12-C35	9780	100
TOTAL, C6-C35	18660	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/24/02 15:33	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	36.1	0.200
Ethylbenzene	107	0.200
Toluene	161	0.200
p/m-Xylene	178	0.200
o-Xylene	83.0	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	1220%	80	120
Bromofluorobenzene	159%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-09
Sample ID: *SEL691702BH16-25'*

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	7520	100
DRO, >C12-C35	8950	100
TOTAL, C6-C35	16470	100

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/24/02 1:14	1	200	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.200	0.200
Ethylbenzene	5.37	0.200
Toluene	2.72	0.200
p/m-Xylene	7.71	0.200
o-Xylene	3.31	0.200

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	102%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-10
Sample ID: SEL691702BH16-30'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/23/02 14:50	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.090	0.025
Toluene	0.063	0.025
p/m-Xylene	0.216	0.025
o-Xylene	0.044	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	105%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548
Project: 2002-10235
Project Name: Linman 6" Line
Location: None Given

Lab ID: 0204548-11
Sample ID: SEL691702BH16-35'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/20/02	1	1	CK	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

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003200-02		9/23/02 15:12	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.100	0.025
Toluene	0.100	0.025
p/m-Xylene	0.288	0.025
o-Xylene	0.064	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	80	120
Bromofluorobenzene	106%	80	120

Approval: Celey D. Keene 9/25/02
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#: G0204548

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003201-02			<10.0		
TOTAL, C6-C35-mg/kg	0003202-02			<10.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204546-02	0	952	1180	123.9%	
TOTAL, C6-C35-mg/kg	0204548-11	0	952	1210	127.1%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0204546-02	0	952	1190	125.%	0.8%
TOTAL, C6-C35-mg/kg	0204548-11	0	952	1230	129.2%	1.6%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003201-05		1000	1220	122.%	
TOTAL, C6-C35-mg/kg	0003202-05		1000	1190	119.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204548

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003199-02			<0.025		
Benzene-mg/kg	0003200-02			<0.025		
Ethylbenzene-mg/kg	0003199-02			<0.025		
Ethylbenzene-mg/kg	0003200-02			<0.025		
Toluene-mg/kg	0003199-02			<0.025		
Toluene-mg/kg	0003200-02			<0.025		
p/m-Xylene-mg/kg	0003199-02			<0.025		
p/m-Xylene-mg/kg	0003200-02			<0.025		
o-Xylene-mg/kg	0003199-02			<0.025		
o-Xylene-mg/kg	0003200-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-13	0	0.1	0.110	110.%	
Benzene-mg/kg	0204556-09	0	0.1	0.099	99.%	
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.115	115.%	
Ethylbenzene-mg/kg	0204556-09	0	0.1	0.104	104.%	
Toluene-mg/kg	0204546-13	0	0.1	0.114	114.%	
Toluene-mg/kg	0204556-09	0	0.1	0.103	103.%	
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.230	115.%	
p/m-Xylene-mg/kg	0204556-09	0	0.2	0.220	110.%	
o-Xylene-mg/kg	0204546-13	0	0.1	0.113	113.%	
o-Xylene-mg/kg	0204556-09	0	0.1	0.102	102.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204546-13	0	0.1	0.108	108.%	1.8%
Benzene-mg/kg	0204556-09	0	0.1	0.101	101.%	2.%
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.113	113.%	1.8%
Ethylbenzene-mg/kg	0204556-09	0	0.1	0.105	105.%	1.%
Toluene-mg/kg	0204546-13	0	0.1	0.112	112.%	1.8%
Toluene-mg/kg	0204556-09	0	0.1	0.104	104.%	1.%
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.228	114.%	0.9%
p/m-Xylene-mg/kg	0204556-09	0	0.2	0.221	110.5%	0.5%
o-Xylene-mg/kg	0204546-13	0	0.1	0.111	111.%	1.8%
o-Xylene-mg/kg	0204556-09	0	0.1	0.104	104.%	1.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003199-05		0.1	0.104	104.%	
Benzene-mg/kg	0003200-05		0.1	0.111	111.%	
Ethylbenzene-mg/kg	0003199-05		0.1	0.109	109.%	
Ethylbenzene-mg/kg	0003200-05		0.1	0.115	115.%	
Toluene-mg/kg	0003199-05		0.1	0.108	108.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg	0003200-05		0.1	0.114	114.%	
p/m-Xylene-mg/kg	0003199-05		0.2	0.230	115.%	
p/m-Xylene-mg/kg	0003200-05		0.2	0.229	114.5%	
o-Xylene-mg/kg	0003199-05		0.1	0.108	108.%	
o-Xylene-mg/kg	0003200-05		0.1	0.114	114.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

ENRON TRANSPORTATION SYSTEMS
5805 E. HWY. 80
MIDLAND, TX 79706

Order#: G0204548

Project: Linman 6" Line

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SEL691702BH15-5'	0204548-01	SOIL	09/17/2002	09/18/2002
SEL691702BH15-10'	0204548-02	SOIL	09/17/2002	09/18/2002
SEL691702BH15-15'	0204548-03	SOIL	09/17/2002	09/18/2002
SEL691702BH15-20'	0204548-04	SOIL	09/17/2002	09/18/2002
SEL691702BH16-5'	0204548-05	SOIL	09/17/2002	09/18/2002
SEL691702BH16-10'	0204548-06	SOIL	09/17/2002	09/18/2002
SEL691702BH16-15'	0204548-07	SOIL	09/17/2002	09/18/2002
SEL691702BH16-20'	0204548-08	SOIL	09/17/2002	09/18/2002
SEL691702BH16-25'	0204548-09	SOIL	09/17/2002	09/18/2002
SEL691702BH16-30'	0204548-10	SOIL	09/17/2002	09/18/2002
SEL691702BH16-35'	0204548-11	SOIL	09/17/2002	09/18/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____ Date: 9/25/02

Environmental Lab of Texas I, Ltd.

Enviro)ental Lab of Texas, Inc.

12600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
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: 915-638-3799
Sampler Signature: Bradley Blair

Project Name: Lisman 6" Line
Project #: 2002-10235
Project Loc:
PO#:

0204598

		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	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	Reactivity	Corrosivity	Ignitiability			RUSH TAT	Standard TAT
01	SEL691702BH15-5'	9-17-02	8:15	1	X									X					x				x							
02	SEL691702BH15-10'	9-17-02	8:30	1	X									X					X				X							
03	SEL691702BH15-15'	9-17-02	8:50	1	X									X					X				X							
04	SEL691702BH15-20'	9-17-02	9:05	1	X									X					X				X							
05	SEL691702BH16-5'	9-17-02	11:15	1	X									X					X				X							
06	SEL691702BH16-10'	9-17-02	11:35	1	X									X					X				X							
07	SEL691702BH16-15'	9-17-02	11:50	1	X									X					X				X							
08	SEL691702BH16-20'	9-17-02	12:40	1	X									X					X				X							
09	SEL691702BH16-25'	9-17-02	1:20	1	X									X					X				X							
10	SEL691702BH16-30'	9-17-02	2:00	1	X									X					X				X							
11	SEL691702BH16-35'	9-17-02	2:45	1	X									X					X				X							

Special Instructions:
FAX RESULTS TO PAT MCCASLAND ASAP

Relinquished:	Date	Time	Received by:	Date	Time
Bradley Blair					
Relinquished:	Date	Time	Received by:	Date	Time
	9-18-02	1520	Jaime McMurray	9-18-02	1520

Sample Containers Int: Y (N)
Temperature Upon Reques:
Laboratory Comments:
115°C

Attachment V: Site Information and Metrics Form and Initial NMOCD Form C-141

Plains All American Pipeline Site Information and Metrics	Incident Date: 9-4-02 @ 1:20 PM	NMOCD Notified: 9-4-02 @ 3:30 PM

SITE: **Hugh Gathering 090402**	Assigned Site Reference #: **2002-10235**
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: Camille Reynolds
City, State, Zip: Midland, Texas 79702	Person Notified:
Representative: Camille Reynolds	NRC Report# :
Representative Telephone: 505.393.5611	
Telephone:	
Fluid volume released (bbls): 50 bbls	Recovered (bbls): 0 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: Hugh Gathering 090402	
Source of contamination: 6" Steel Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: Bryant	
LSP Dimensions 10' X 10'	East side – 10' x 10'
LSP Area: 100 ft²	East side - 100 ft²
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32°29'11.007"N	32°29'11.080"N
Longitude: 103°07'33.864"W	103°07'29.637"W
Elevation above mean sea level: 3,425'amsl	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SE¼ of the SE¼ UL-P	East side - SW¼ of the SW¼ UL-M
Location- Section: 11	East side - Section 12
Location- Township: T21S	
Location- Range: R37E	
Surface water body within 1000 ' radius of site: none	
Surface water body within 1000 ' radius of site:	
Domestic water wells within 1000' radius of site: none	
Domestic water wells within 1000' radius of site:	
Agricultural water wells within 1000' radius of site: none	
Agricultural water wells within 1000' radius of site:	
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) 60'bgs	
Depth of contamination (DC) – 60'bgs	
Depth to ground water (DG – DC = DtGW) - zero 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 = 10	*Wellhead Protection Area Score= 0*	*Surface Water Score= 0*
Site Rank (1+2+3) = 10		

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 - Informational

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 **Hugh Gathering 090402 #2002-10235**	Facility Type **6" Steel Pipeline**
Surface Owner: **Bryant**	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:
P	**11**	**T21S**	**R37E**					Lea

Latitude: **32°29'11.007"N** **Longitude:** **103°07'33.864"W**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **50 bbls barrels**	Volume Recovered **0 bbls barrels**
Source of Release **6" Steel Pipeline**	Date and Hour of Occurrence **9-4-02 @ 1:20 PM**	Date and Hour of Discovery **9-4-02 @ 1:30 PM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? **Camille Reynolds**	Date and Hour **9-4-02 @ 3:30 PM**	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
6" Steel Pipeline **The leak was due to internal/external corrosion. Near surface impacted soil was disposed of in an NMOCD approved landfarm.**

Describe Area Affected and Cleanup Action Taken.*
100 sqft 10' X 10': Site delineated. Remedial Goals: TPH 8015m = 1000 & 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:	**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: 9/6/2002 Phone: 505.393.5611		

Attach Additional Sheets If Necessary