SITE INVESTIGATION, REMEDIATION, AND FINAL C-141 CLOSURE DOCUMENTATION

NM STATE M BATTERY

EOTT REF: #2001-11095

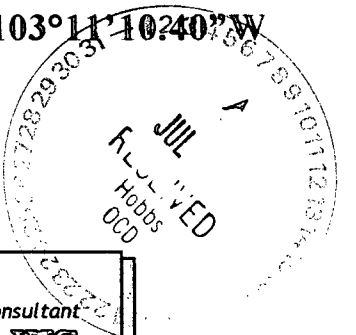
UL-C NE¼ OF THE NW¼ OF SECTION 29 T22S R37E

~5 MILES SOUTH-SOUTHWEST (BEARING 198.4°) OF EUNICE, LEA COUNTY, NEW MEXICO

LATITUDE: 32°22'02.82"N LONGITUDE: 103°11'10.40"W

JULY 2, 2003

PREPARED BY:



John Good
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ENVIRONMENTAL PLUS, INC. Micro-Blaze Micro-Blaze Out™
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

July 2, 2003

Mr. Larry Johnson
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1625 North French Dr.
Hobbs, New Mexico 88240

Subject: EOTT "NM State M Battery" Final C-141 and Closure Documentation
EOTT Site Reference: 2001-11095

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of EOTT Energy Company, submits for your consideration and approval the Final C-141 and Closure Documentation for the "NM State M Battery" remediation site (EOTT Reference: 2001-11095). This report documents the vertical and horizontal extents of hydrocarbon contamination at the site, removal of contaminated soils down to the 10-ft bgs excavation level, excavation expansion to a 85' X 45' X 10' configuration, replacement of 650-yd^3 of contaminated soil into the bottom of the expanded excavation, and installation of a 2-ft compacted clay barrier over the contaminated soils left in place consistent with the NMOCD approved "Closure Proposal and Risk Assessment" (April 15, 2003) for this project. Environmental Plus, Inc., on behalf of EOTT, therefore requests that the NMOCD consider the information provided within this documentation and require "no further action" at this site.

If there are any questions please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-0288 or 505-390-9804 respectively. Mr. Frank Hernandez of EOTT Energy Company can be contacted at 432-638-3799.

All official correspondence should be addressed to:

Mr. Frank Hernandez
EOTT Energy Company
P.O. Box 1660
Midland, Texas 79703

Sincerely,

John Good
EPI Environmental Consultant

cc: Frank Hernandez, EOTT Energy (w/enclosure)
William Von Drehle, EOTT Energy (w/enclosure)
Sherry Miller, EPI President
Ben Miller, EPI Vice President and General Manager
Pat McCasland, EPI Technical Manager
File

ENVIRONMENTAL PLUS, INC.

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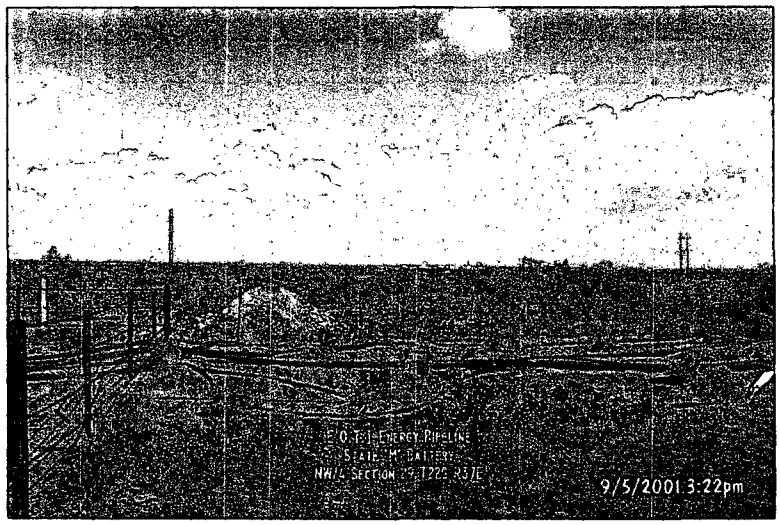
Table of Contents

Executive Summary

Environmental Plus, Inc. (EPI) was notified by EOTT Energy Company (EOTT) on September 3, 2001 regarding a crude oil pipeline release and remediation project at EOTT's "NM State M Battery" (EOTT Reference 2001-11095). The crude petroleum release at this site is primarily historical in nature and can merely be estimated at >25 bbl in volume.



The initial characterization and remedial work at the site was performed by EPI during September, 2001. The site was closed under a "Clay Barrier – Risk Assessment" closure proposal approved by NMOCD on April 30, 2003. The "EOTT State M Battery" site is located ~5 miles south-southwest of Eunice, NM in UL-C, Section 29 T22S R37E. The initial surface extent of the spill was approximately 400-ft^2, however, it was expanded to ~1,700-ft^2 after excavation. The vertical extent of contamination (>100 ppm TPH) was projected to extend to ~30-ft bgs. The NMOCD Site Characterization Matrix for this site is "20" due to an estimated depth to ground water of ~65-ft bgs. The spill occurred on property owned by the State of New Mexico and leased to the Millard Deck Estate.

Analytical data obtained from 9 boreholes (BH1-BH9; *Plates 3, 6, 8, 9, Attachments*) indicated that the central section of the excavation is significantly contaminated down to ~30-ft bgs. Borehole and composite soil analyses for this project were performed by Environmental Lab of Texas, Odessa, TX and AnalySys Inc., Austin, TX. Due to the engineering requirements and inordinate expense of extending the excavation to 30-ft bgs, EOTT opted to complete the remediation of the site with the installation of a 2-ft impermeable layer of compacted clay, with a requisite VADSAT Risk Assessment of the site

The VADSAT 3.0 Risk Assessment Model (1000-year projection, *pages 20-23, Attachments*) was generated for the site with, and without, the clay barrier installed. Results of the computer generated risk models indicate there is no risk presented to the aquifer at this site with the remediation option selected.

All stockpiled contaminated soil was placed under the installed clay barrier in this project. The excavation above the clay barrier was backfilled with clean caliche and topsoil that had been stockpiled for such purpose during the expansion of the excavation to allow for bottom placement of the contaminated soil. The site was contoured to prevent pooling over the excavation site. The final surface damaged area (22,800-ft^2) is represented on *Plate 4* of the Attachments. The area will be evaluated for new vegetative growth in Spring-2004 and reseeded with natural grasses if determined necessary.

1.0 Introduction

This document addresses the initial site characterization, site excavation, vertical and horizontal contaminant delineation, and the final closure of this site with the installation of an impermeable clay barrier. Environmental Plus, Inc. (EPI), Eunice, New Mexico commenced the initial site

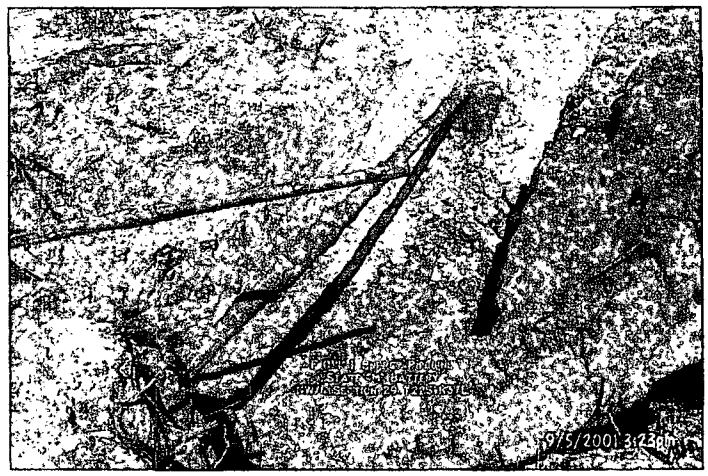
characterization and delineation process at this site on September 3, 2001. The following activities were undertaken to remediate and close this site:

- GPS demarcation of the release site and relevant surface features. *(Plate 3, Attachments)*
- Excavation and on-site stockpiling of ~650-yd^3 of contaminated soil. The 10-ft deep excavation had an approximate areal extent of 1,750-ft^2. *(Plate 4, Attachments)*
- Drilling and sampling of 9 boreholes from the 2-ft bgs level down to 30-ft bgs within the extents of the excavation to determine the vertical extent of contamination. Lateral contaminant extent was determined by composite sidewall sampling. *(Plates 3, 6, 8, 9, Attachments)*
- Excavation and stockpiling of ~650-yd^3 of additional clean soil from the lateral extents of the primary excavation to shape it into a regular rectangle (85-ft X 45-ft). This allowed for the placement of the stockpiled contaminated soil into the bottom of the excavation at a depth adequate to accommodate the installation of a 2-ft clay barrier and a 3-ft topsoil layer over the contaminated soil. The sidewalls of the expanded excavation were confirmed to be free of contamination with the use of a portable ionization detection (PID) unit. All sidewall VOC readings were <0.01 ppm. *(Plates 4 and 7, Attachments).*
- Placement of 650-yd^3 of stockpiled contaminated soil in the bottom of the expanded excavation (depth 5-10-ft). *(Plate 7, Attachments)*
- Installation of a 2-ft compacted and certified clay barrier over the contaminated soil (depth 3-5-ft), with a 5-ft overlap perimeter. *(Plate 7, Attachments)*
- Backfill of the remaining excavation with clean soil that was stockpiled during the excavation expansion. The final site was smoothed and contoured to prevent pooling over the excavated area. Construction activity at the site was completed on April 30, 2003. *(Plates 4 and 7, Attachments)*

2.0 Background

Environmental Plus, Inc. (EPI) was notified by EOTT Energy Company (EOTT) on September 3, 2001 regarding a release and remediation project located immediately east of EOTT's State M Battery facility. The site is designated "NM State M Battery", and has the EOTT reference number of 2001-11095. The release is located on land owned by the State of New Mexico and leased to the Millard Deck Estate.

The initial response consisted of flow-path containment and recovery of 2-bbl of pooled crude oil. Vertical and horizontal delineation of the release extents was accomplished with the drilling and sampling of 9 boreholes (*Plate 3 – Attachments*). Approximately 650-yd^3 of contaminated soil was excavated and stockpiled on a plastic liner extending southeast from the excavation (*Plate 4 – Attachments*). The original remediation plan for this project was to blend the stockpiled contaminated soil and return it to the excavation.



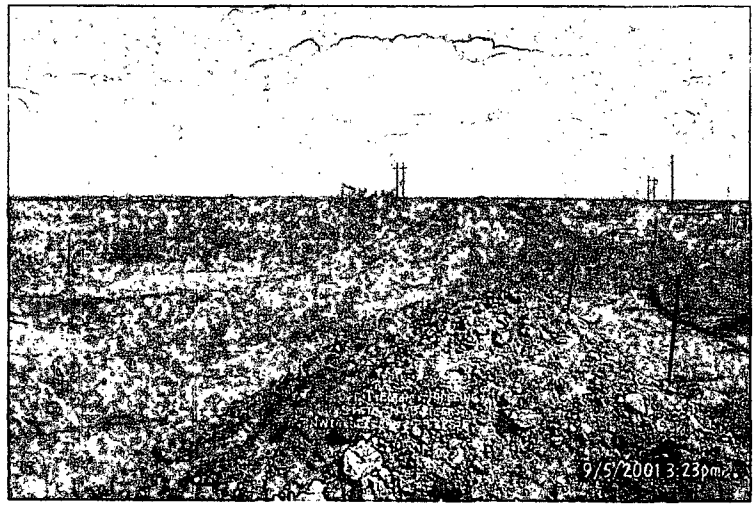
Borehole 9 exhibited a TPH concentration >500 ppm at a depth of 25-ft, thus it was projected that the remedial goal of <100 ppm could not have been achieved until the site was excavated to >30-ft depth. Deepening the excavation from 10-ft bgs to >30-ft was deemed to be impractical due to expense, engineering and safety concerns.

EPI, on behalf of EOTT Energy, conducted an approved remediation plan to extend the irregularly shaped excavation laterally to form a rectangular excavation (85-ft X 45-ft X 10-ft), with the clean materials being stockpiled as backfill. The 650-yd^3 of stockpiled contaminated soil was then placed on the bottom of the excavation, filling it up to the 5-ft bgs level. Once the contaminated stockpile occupied the bottom of the excavation and the sidewalls were confirmed to have VOC levels <0.01 ppm, a 5-ft overlap was excavated from the perimeter of the excavation sidewalls. A 2-ft, compacted and certified clay barrier was then installed over the excavation. The final layer of backfill was the clean soil that was removed when the excavation was transformed to the 85' X 45' rectangle *(see Plates 5 and 7, Attachments)*. The 1000-year VADSAT Risk Assessment model for clay barrier closure of this site (*Plate 9 – Attachments*) predicts no risk to the water table (65-ft).

3.0 Site Description

3.1 Site Location

The EOTT "NM State M Battery" site is located in UL-C of Section 29 T22S R37E. The site is approximately 2300-ft from the west section line and 4317-ft from the south section line. The Latitude and Longitude coordinates are: 32°22'02.82"N; 103°11'10.40"W. The land is owned by the State of New Mexico and leased to the Millard Deck Estate. *(Plates 1 and 2, Attachments)*



3.2 Geohydrology

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil. The release site is located in the Eunice Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely

covered by reddish-brown dune sand". The thickness of the sand cover ranges from 2-5 feet in most areas to as much as 20-30 feet in drift areas.

The subsurface at the site is composed of a hard caliche base covered with 5-6 feet of reddish sand/clay topsoil. The presence of ground water in this area of Lea County is best described as intermittent. Based on data obtained from the Office of the State Engineer, a conservative estimate of ground water depth at this site, if present, would be 65-ft bgs.

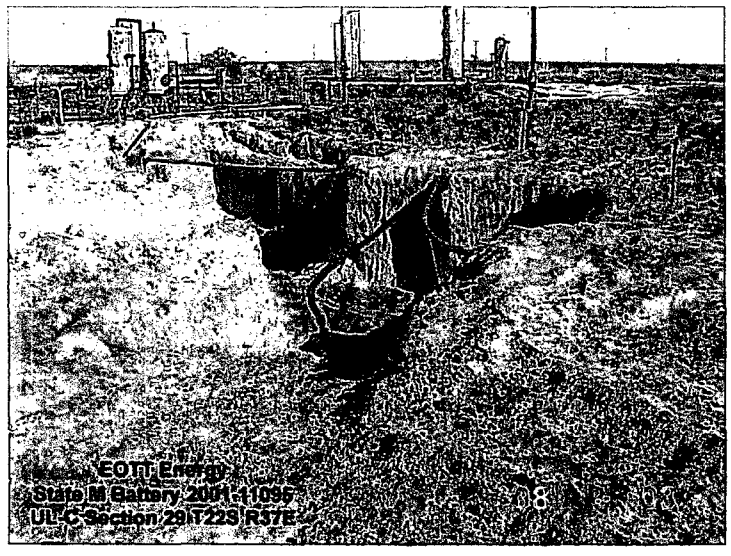
3.3 Ecology

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

3.4 Area Water Wells and/or Surface Water Features

There are no water wells and/or surface water features within 1000-ft of the release site.

There are no surface water bodies within 1000-ft of the site.



4.0 NMOCD Site Ranking

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

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

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylene (BTEX), was determined based on the NMOCD Ranking Criteria as follows:

Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.

- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted in the Site Ranking Matrix presented as Table 1.

Table 1 - Site Ranking Matrix

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
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***
Depth to GW 50 to 99 feet: *10 points*		**200-1000 horizontal feet: *10 points***
Depth to GW >100 feet: 0 points	**If >1000' from water source, or; >200' from private domestic water source: *0 points***	**>1000 horizontal feet: *0 points***
Ground Water Score = 20	**Wellhead Protection Score = 0**	**Surface Water Score= 0**
Site Rank (1+2+3) = 20 + 0 + 0 = 20 points (for soil >15'bgs)		

Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	**20+**	10	0
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

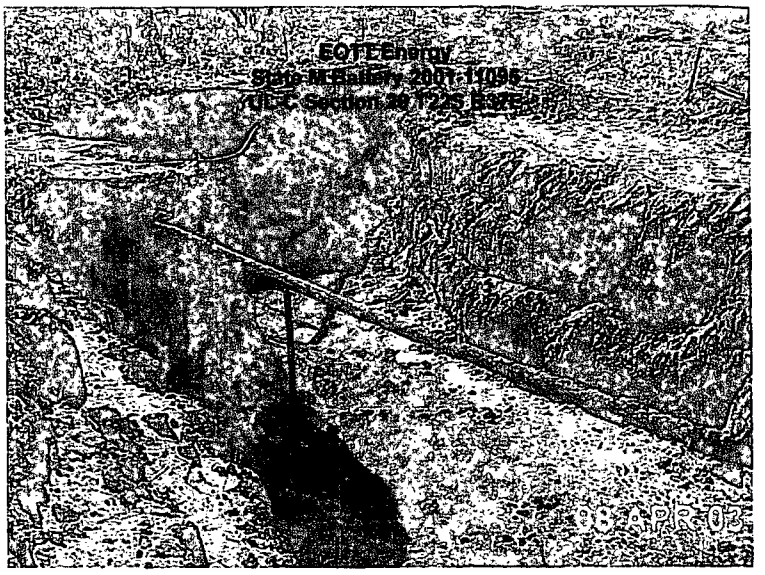
5.0 Subsurface Soil Investigation

The subsurface soil analyses were accomplished on September 13-17, 2001 with the drilling and sampling of 9 boreholes (designated BH1-BH9) down to 30-ft bgs. Analyses results indicated that TPH and BTEX contamination above NMOCD remedial goals existed at the 15-30-ft depth zone within the area(s) delineated by Boreholes 8 and 9. *(Lab analyses results for this sampling event are included in the Attachments as Plates 6, 8 and 9).*

6.0 Ground Water Investigation

Ground water depth is conservatively projected to be 65-ft bgs at the site. The site was excavated to a maximum depth of 10-ft. All contaminated soil remaining within the excavation (see Section 7.0 below) was covered by a 2-ft impermeable layer of compacted clay. The remaining volume of the

excavation was backfilled with clean caliche and topsoil. Based on the clay barrier containment of the Constituents of Concern, VADSAT Risk Assessment Model and a remaining depth to ground water of >30-ft, there will be no need for further ground water investigation at this site.

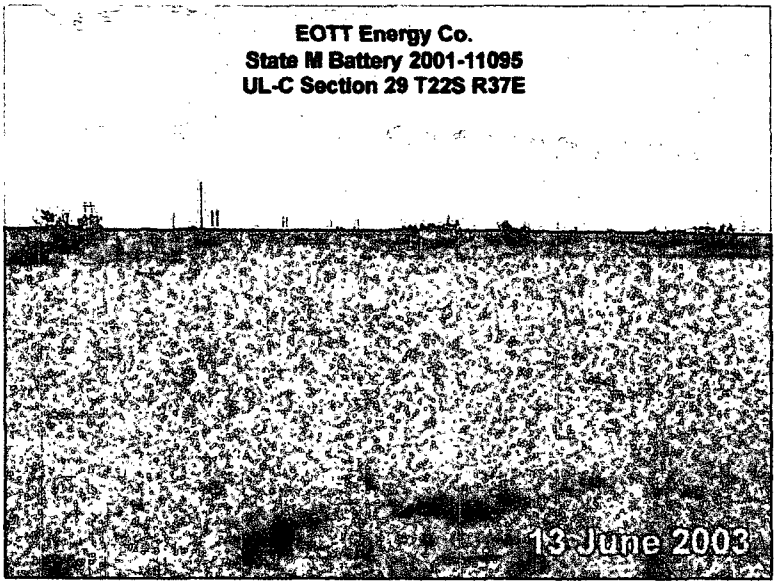


7.0 Remediation

Remediation of the site commenced on September 3, 2001 and was completed on April 30, 2003. Remediation of the site consisted of excavation and on-site stockpiling of ~650 yd^3 of contaminated soil from the immediate release area. *(Plate 4, Attachments)*

The original remediation plan for this site was to blend the contaminated soil to <1000 ppm TPH and return it to the excavation. Upon determination that the vertical extent of contamination went to approximately 30-ft bgs, thus altering the TPH remedial goal from 1000 ppm down to 100 ppm, it was decided to cease deeper excavation of the site and to scrap the plan to blend the contaminated soil previously excavated and stockpiled. An approved "Closure Proposal and Risk Assessment" was submitted to NMOCD on April 15, 2003. It was proposed to return the stockpiled contaminated soil to the bottom of a laterally expanded excavation and to isolate the contaminated soil with a 2-ft compacted clay barrier. The 10-ft bgs bottom of the contaminated area was composite sampled on 4/10/03. The analytical results indicated BTEX and Benzene levels below remedial goals, and TPH levels ranging from 570 mg/kg up to 10,270 mg/kg. The stockpiled contaminated soil was composite sampled on 4/12/03, of which, the results indicated a composite TPH level of ~2,700 mg/kg.

The 10-ft bgs excavation was expanded laterally to form a regular 85' X 45' rectangle *(Plates 5 and 7, Attachments)*. The clean soil removed (~650-yd^3) in this expansion was stockpiled and later used as backfill. This expansion allowed the placement of the contaminated stockpile into the bottom of the excavation, leaving adequate vertical space for the installation of the clay barrier and adequate root-zone above the clay *(Plate 7, Attachments)*.



The clay barrier was installed in two 1-ft lifts, occupying the 3-5-ft bgs zone of the excavation. The first clay lift was certified for compaction by Pettigrew and Associates, P.A. on April 24, 2003 with a 97.1% compaction with 13.3% moisture. The final lift was certified on April 28, 2003 with a compaction of 102.2% and 10% moisture *(copies included in Attachments, pages 24-25)*. After the clay barrier was in place and certified, the remainder of the

excavation (3-ft) was backfilled with the clean soil and topsoil that had been stockpiled. The site was smoothed and contoured on April 30, 2003. *(Plate 4 - Attachments includes the final GPS delineation of the surface damage area).*

8.0 VADSAT Risk Assessment

A very conservative 1000-year Risk Assessment of vertical hydrocarbon migration for this site was generated utilizing the American Petroleum Institute's VADSAT 3.0 software. Although the sampling protocol for this site does not show an inordinate presence of Benzene, it was the chemical species utilized to run the assessment because it is the lightest and fastest migrating of the chemical choices VADSAT offers. VADSAT calculates the Mean Infiltration Rate based on annual precipitation minus a runoff coefficient and the evaporation rate. This number must be positive, so VADSAT does not accommodate arid and semi-arid areas such as southeast NM where the evaporation rate exceeds the precipitation rate.

Although the water table is estimated to be 65-feet deep at this site, there is no empirical confirmation of this presumption. To allow for more conservancy in the VADSAT risk assessment modeling, the water table depth was set at 50-feet for both the assessment models presented with this site.

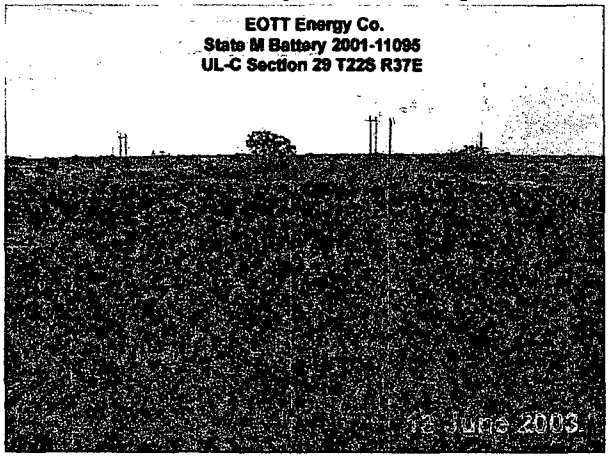
Two assessments were run for this site: one with no clay barrier present and one with a clay barrier present. Other than the presence of the clay barrier, the input parameters for each assessment are identical. The downstream receptors were set at 1-meter, 10-meters and 100-meters (X=1 X=10 X=100). The transverse offset (Y value) was set at 0-meters, and the depth into the aquifer (Z value) was set at 0.

The results of the computer risk assessment modeling for the site without a clay barrier in place indicate that benzene present would reach the top of the aquifer directly under the site in approximately 100-years and reach its peak concentration of 9.63×10^{-4} mg/L 100-years later. The computer risk assessment modeling of the site with the clay barrier in place shows a flat-line of 0 values for the 1000-year period modeled, thus the contaminant migration is projected to never reach the aquifer.

The raw data generated by the VADSAT program is included in the Attachments (pages 20-22). This data includes the parameters of the two models and the data points generated for the 1000-year span. *Plate 10* is the graphical representation of both assessment models that were generated.

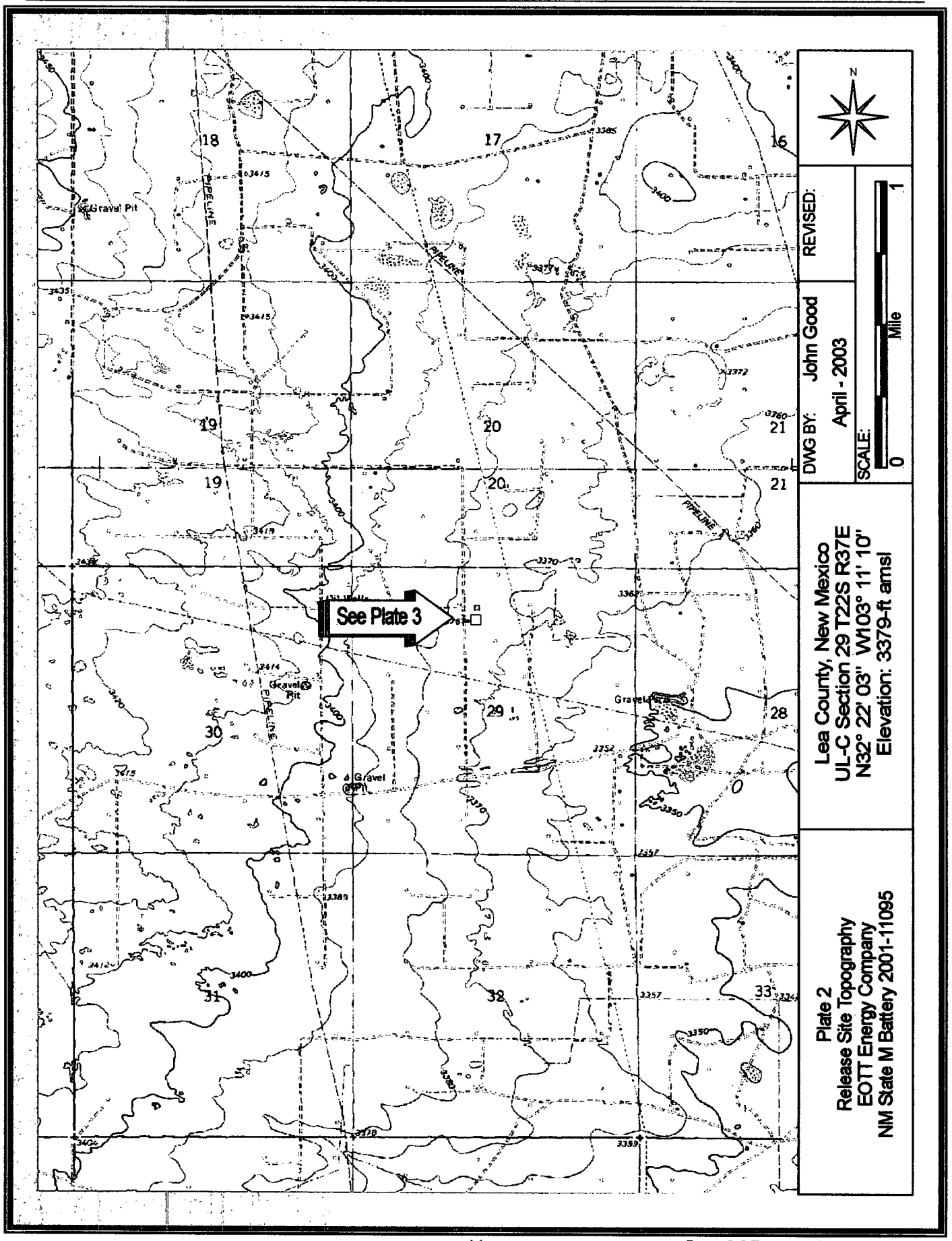
9.0 Closure Justification

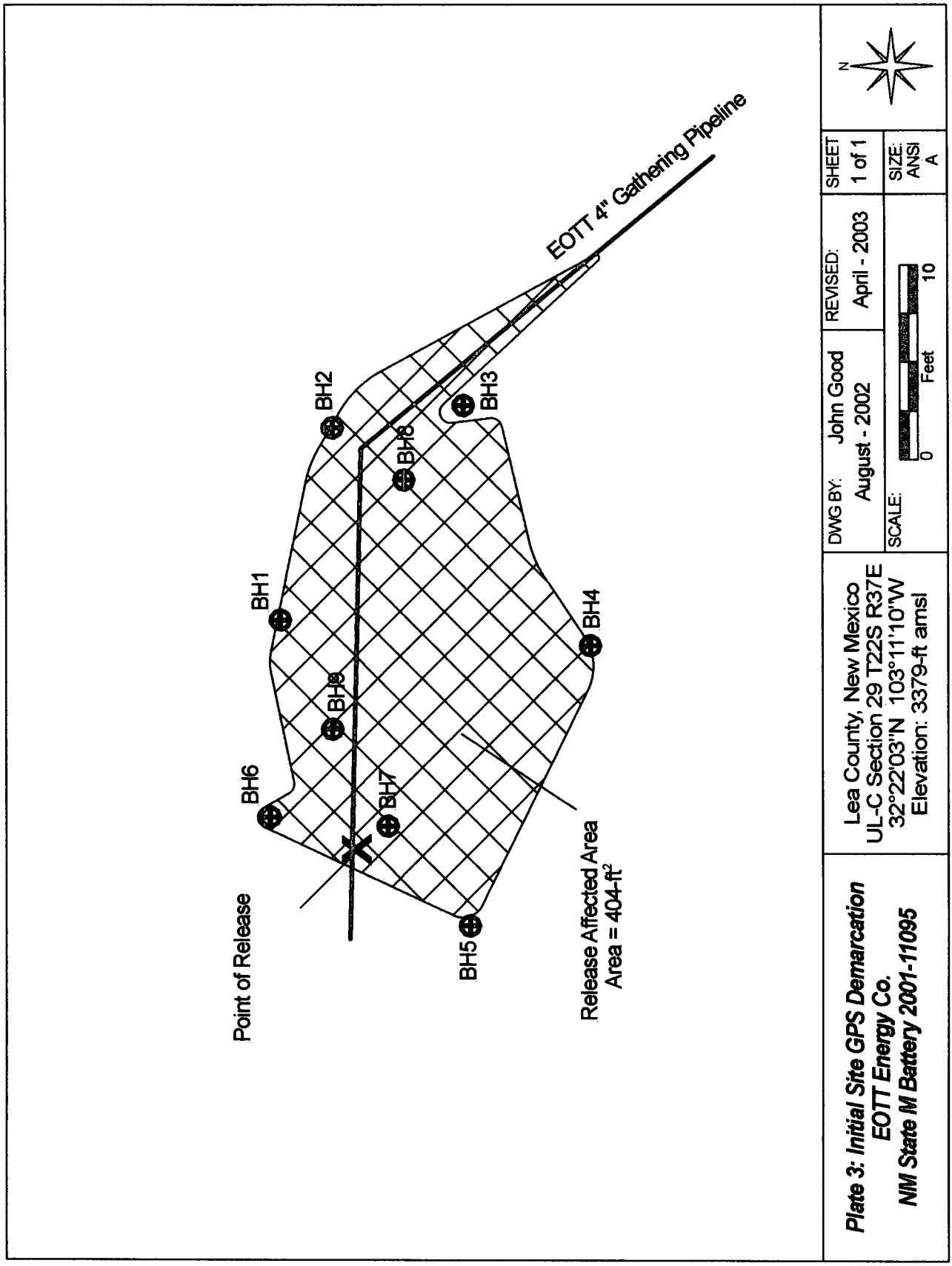
This report documents successful implementation of the Remediation Plan and Closure Proposal approved by NMOCD for this release site. A 2-ft compacted and certified clay barrier was placed over all contaminated soil that was allowed to remain in place in the excavation. The VADSAT 3.0 Risk Assessment model for this site, with a conservative parameter basis, indicates that there is no risk inherent to leaving the contaminants in-place and that no threat to any existing aquifer beneath the site presents itself. The excavation was backfilled with clean caliche and topsoil and properly contoured to provide adequate drainage. Based on the data presented in this report, Environmental Plus, Inc., on behalf of EOTT Energy Company, requests that the NMOCD require "no further action" at this site.

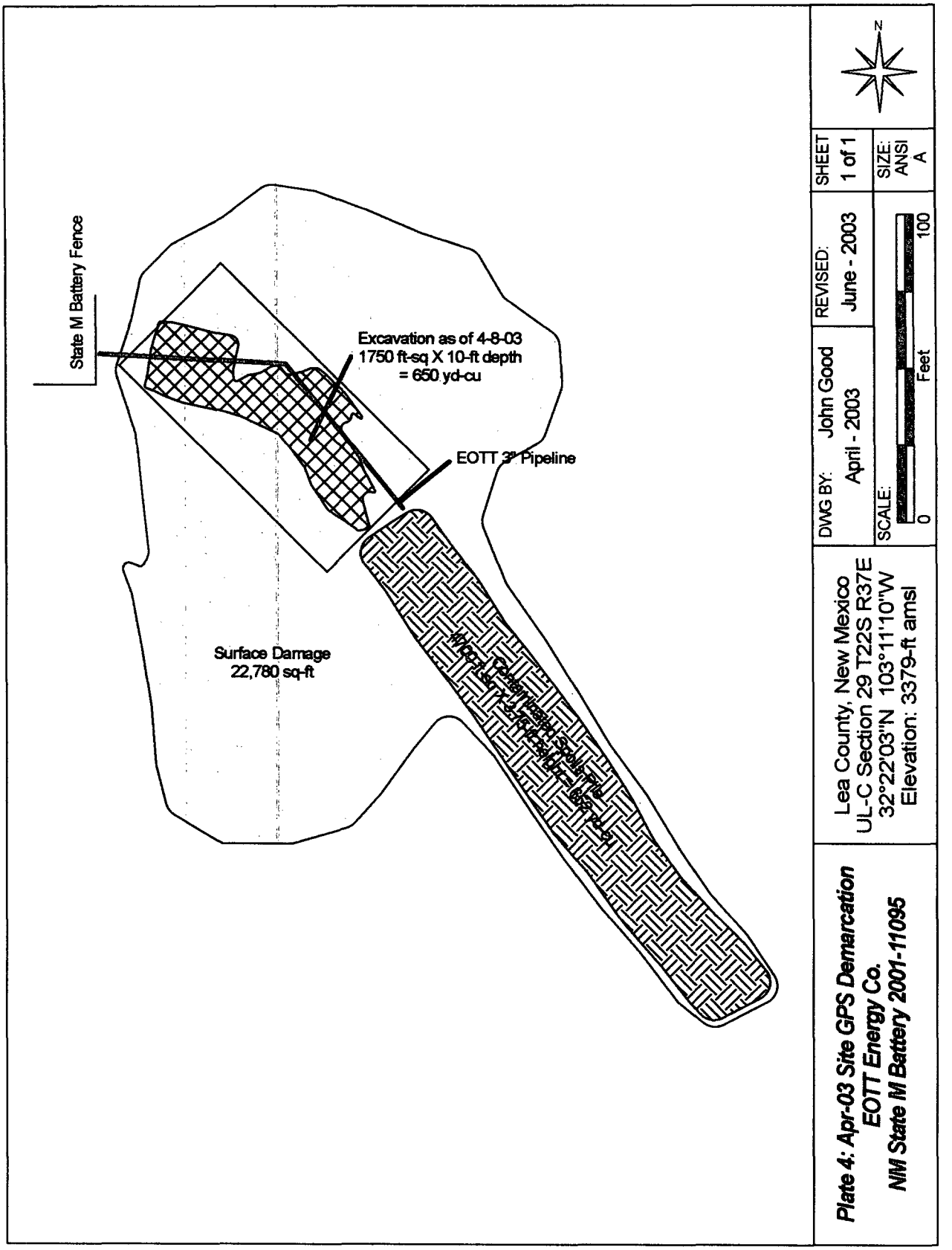


Attachments: (*pages 10-28+*)

Oil Center
Jones City
Oil Wells
29
EOTT "State M Battery" Release Site
Plate 1
Release Site Location
EOTT Energy Company
NM State M Battery 2001-11095
Lea County, New Mexico
UL-C Section 29 T22S R37E
N32° 22' 03" W103° 11' 10"
Elevation: 3379-ft amsl
DWG BY: John Good
April - 2003
REVISED:
SCALE:
0
5
Miles
SHEET
1 of 1
N


See Plate 3
Gravel Pit
PIPELINE
18
17
16
19
20
21
29
28
30
31
32
33
N
SCALE: 0 1 Mile
DWG BY: John Good
April - 2003
REVISED:
Lea County, New Mexico
UL-C Section 29 T22S R37E
N32° 22' 03" W103° 11' 10"
Elevation: 3379-ft amsl
Plate 2
Release Site Topography
EOTT Energy Company
NM State M Battery 2001-11095


EOTT 4" Gathering Pipeline
BH1
BH2
BH3
BH4
BH5
BH6
BH7
BH8
BH9
Point of Release
Release Affected Area
Area = 404-ft²
Plate 3: Initial Site GPS Demarcation
EOTT Energy Co.
NM State M Battery 2001-11095
Lea County, New Mexico
UL-C Section 29 T22S R37E
32°22'03"N 103°11'10"W
Elevation: 3379-ft amsl
DWG BY: John Good
August - 2002
REVISED:
April - 2003
SCALE:
0
Feet
10
SHEET
1 of 1
SIZE
ANSI
A
N


State M Battery Fence
Excavation as of 4-8-03
1750 ft-sq X 10-ft depth
= 650 yd-cu
EOTT 3" Pipeline
Surface Damage
22,780 sq-ft
N
SHEET
1 of 1
SIZE:
ANSI
A
REVISED:
June - 2003
DWG BY: John Good
April - 2003
SCALE:
0
100
Feet
Plate 4: Apr-03 Site GPS Demarcation
EOTT Energy Co.
NM State M Battery 2001-11095
Lea County, New Mexico
UL-C Section 29 T22S R37E
32°22'03"N 103°11'10"W
Elevation: 3379-ft amsl

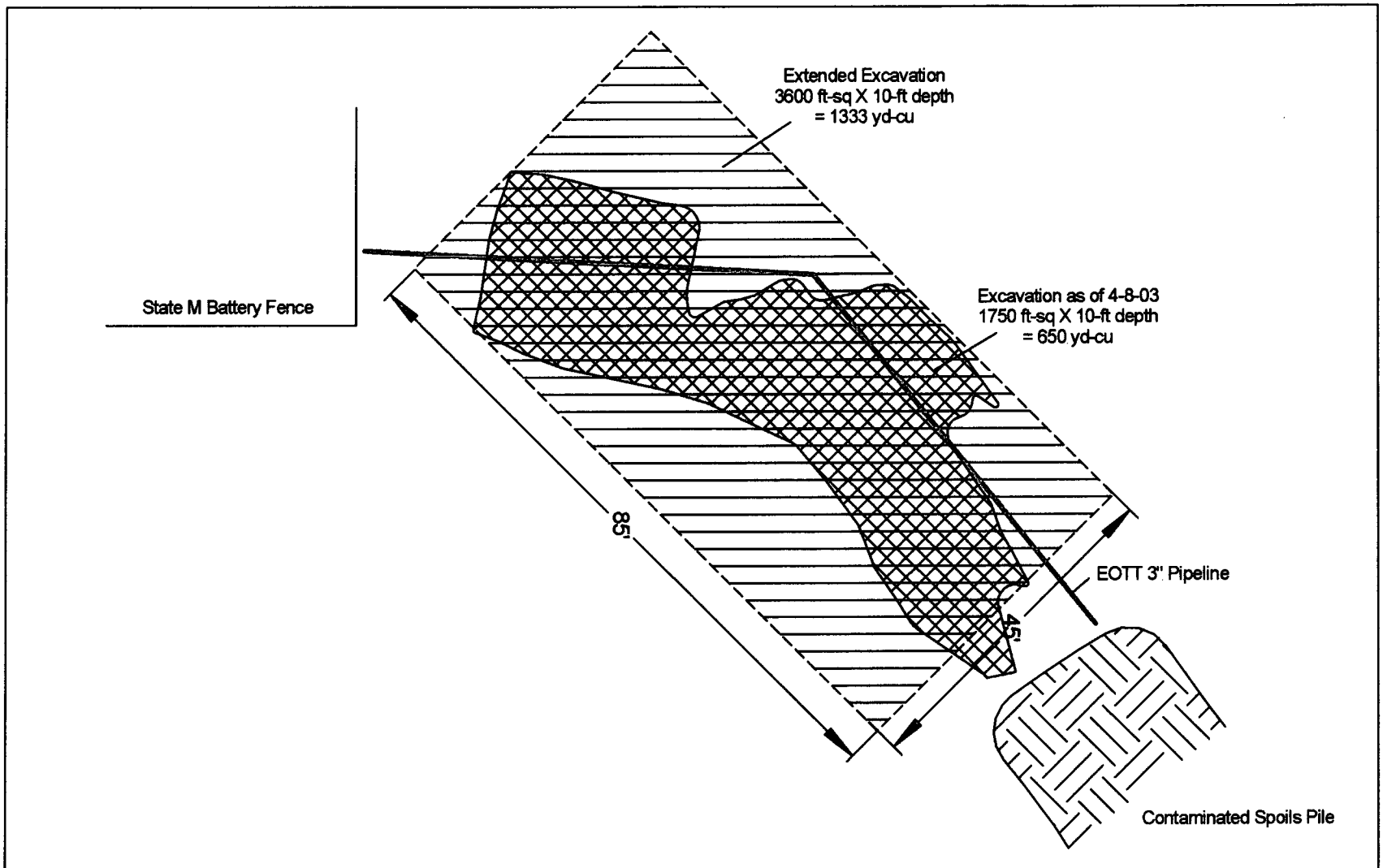


Plate 5: ***Expanded Rectangular Excavation*** ***EOTT Energy Co.*** ***NM State M Battery 2001-11095***	Lea County, New Mexico UL-C Section 29 T22S R37E 32°22'03"N 103°11'10"W Elevation: 3379-ft amsl	DWG BY: John Good April - 2003	REVISED:	SHEET 1 of 1	N
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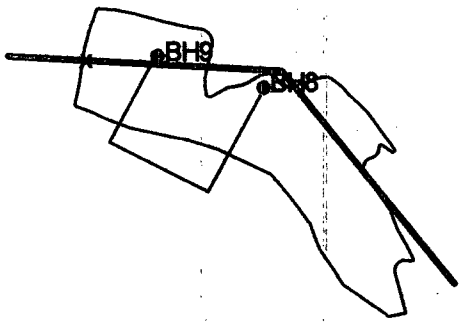
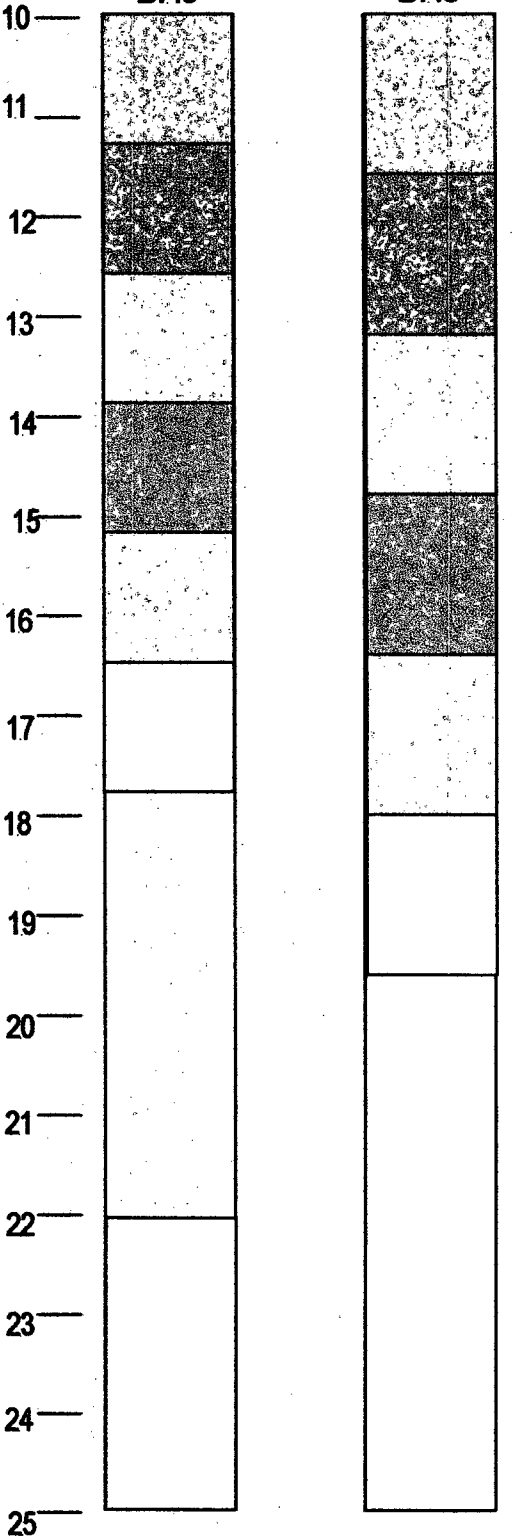


TPH ppm

- >3,000
- >2,500
- >2,000
- >1,500
- >1,000
- >500
- 0-500

Feet from Surface



DWG BY: John Good
April - 2003

REVISED:

SHEET 1 of 1

SCALE:

Lea County, New Mexico
UL-C Section 29 T22S R37E
32°22'03"N 103°11'10"W
Elevation: 3379-ft amsl

Plate 6
Boreholes 8-9 Contaminant Cross-Section
EOTT Energy Company
NM State M Battery 2001-11095

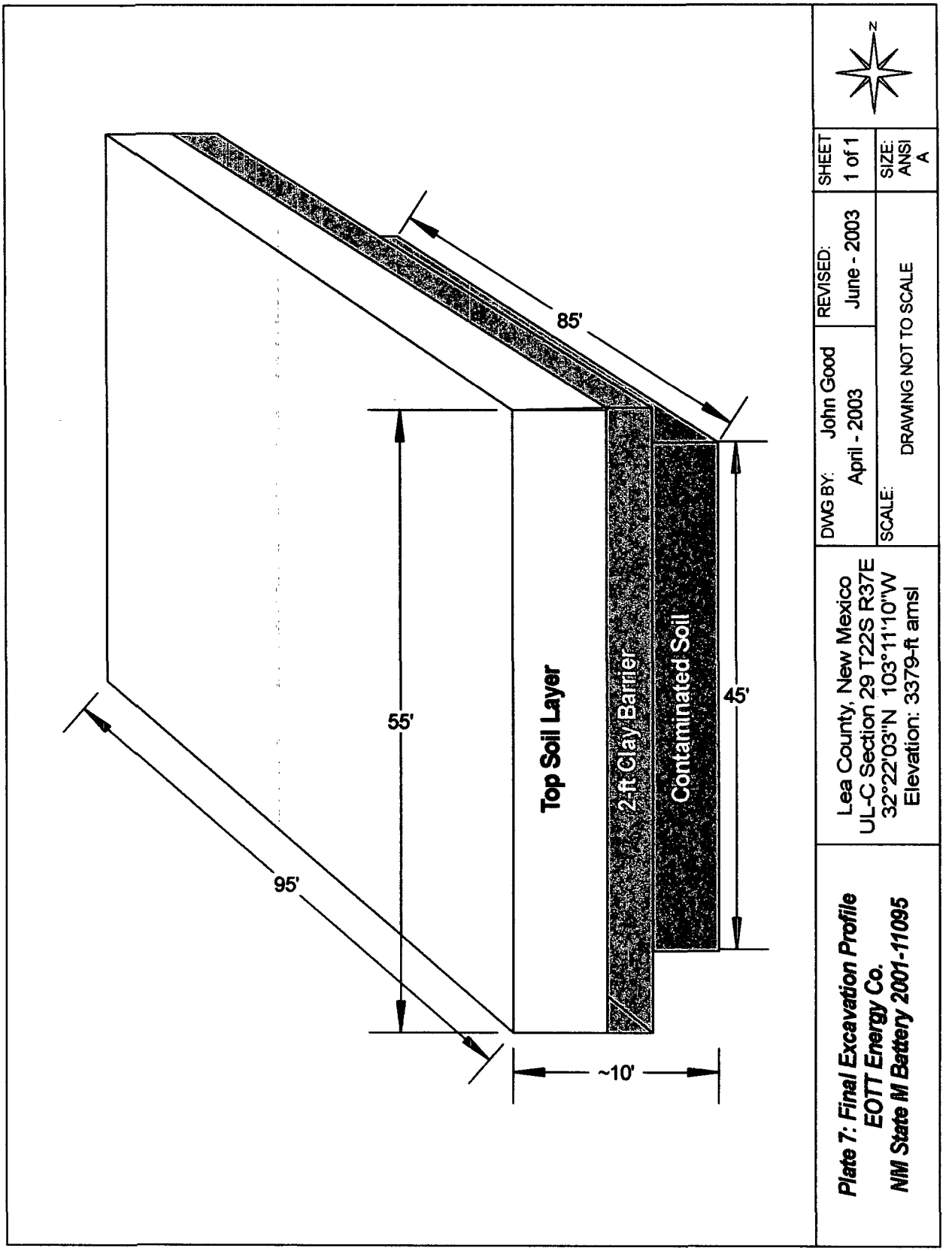

85'
55'
95'
45'
~10'
Top Soil Layer
2 ft Clay Barrier
Contaminated Soil
N
Plate 7: Final Excavation Profile
EOTT Energy Co.
NM State M Battery 2001-11095
Lea County, New Mexico
UL-C Section 29 T22S R37E
32°22'03"N 103°11'10"W
Elevation: 3379-ft amsl
DWG BY: John Good
April - 2003
REVISED:
June - 2003
SCALE:
DRAWING NOT TO SCALE
SHEET
1 of 1
SIZE:
ANSI
A

Plate 8 - Soil Analysis Results (TPH & BTEX)

EOTT Energy Co. - State M Ref.# (2001-11095) - Soil Sampling Results

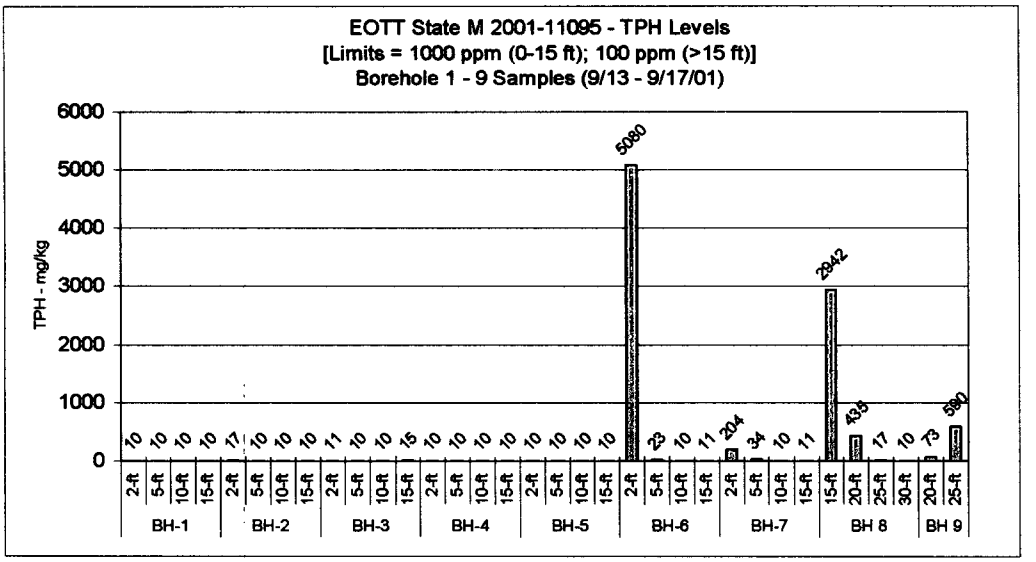
Bold highlighted cells indicate values in excess of the NMOCD remedial action guideline thresholds: TPH = 100/1000 mg/Kg; Benzene = 10 mg/Kg; BTEX = 50 mg/Kg

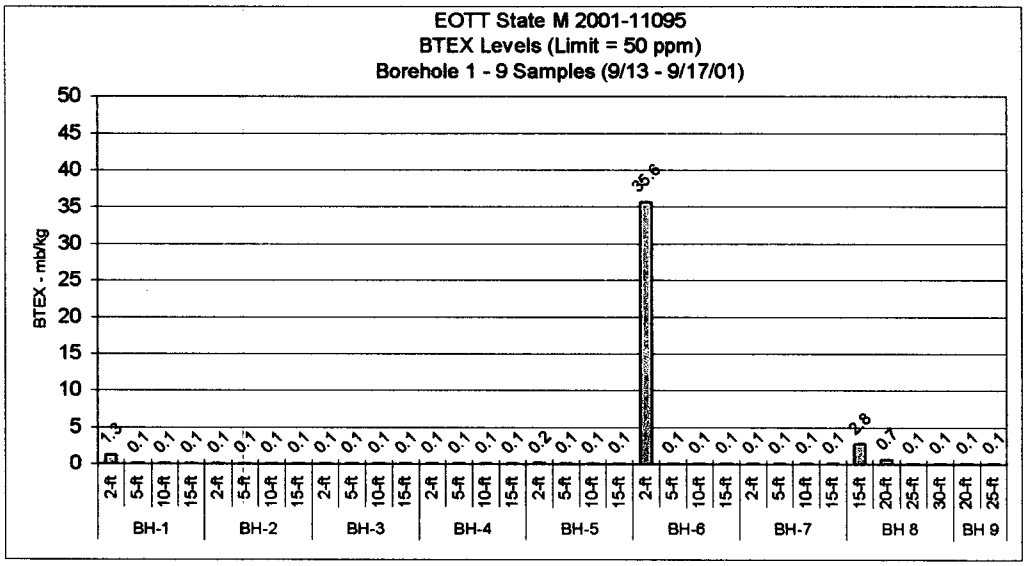
Sample Date	Excavation Sampling Area	Depth (ft - bgs[1])	SAMPLE ID#	VOC[2] ppm	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX[6] mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg
9/13/01	BH-1	2	ESM91301BH1-2'	1.5	5	5	10	1.277	0.194	0.215	0.220	0.648
9/13/01		5	ESM91301BH1-5'	0.7	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		10	ESM91301BH1-10'	0.7	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		15	ESM91301BH1-15'	0.3	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01	BH-2	2	ESM91301BH2-2'	1.1	5	12	17	0.100	0.020	0.020	0.020	0.040
9/13/01		5	ESM91301BH2-5'	0.8	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		10	ESM91301BH2-10'	0.3	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		15	ESM91301BH2-15'	0.2	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01	BH-3	2	ESM91301BH3-2'	0.8	6	5	11	0.100	0.020	0.020	0.020	0.040
9/13/01		5	ESM91301BH3-5'	0.5	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		10	ESM91301BH3-10'	0.6	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		15	ESM91301BH3-15'	0.4	10	5	15	0.100	0.020	0.020	0.020	0.040
9/13/01	BH-4	2	ESM91301BH4-2'	0.9	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		5	ESM91301BH4-5'	0.5	5	5	10	0.101	0.020	0.020	0.020	0.041
9/13/01		10	ESM91301BH4-10'	0.7	5	5	10	0.100	0.020	0.020	0.020	0.040
9/13/01		15	ESM91301BH4-15'	0.5	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01	BH-5	2	ESM91401BH5-2'	19	5	5	10	0.174	0.020	0.035	0.037	0.083
9/14/01		5	ESM91401BH5-5'	3.8	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01		10	ESM91401BH5-10'	3	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01		15	ESM91401BH5-15'	2.7	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01	BH-6	2	ESM91401BH6-2'	104.6	**1670**	**3410**	**5080**	35.610	0.100	3.810	8.820	22.880
9/14/01		5	ESM91401BH6-5'	30.9	5	18	23	0.100	0.020	0.020	0.020	0.040
9/14/01		10	ESM91401BH6-10'	17.5	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01		15	ESM91401BH6-15'	9.4	5	6	11	0.100	0.020	0.020	0.020	0.040
9/14/01	BH-7	2	ESM91401BH7-2'	43.6	12	192	204	0.101	0.020	0.020	0.020	0.041
9/14/01		5	ESM91401BH7-5'	34.7	5	29	34	0.100	0.020	0.020	0.020	0.040
9/14/01		10	ESM91401BH7-10'	7.9	5	5	10	0.100	0.020	0.020	0.020	0.040
9/14/01		15	ESM91401BH7-15'	7.1	5	6	11	0.100	0.020	0.020	0.020	0.040
9/17/01	BH-8	15	ESM91701BH8-15'	158	**402**	**2540**	**2942**	2.751	0.100	0.498	0.598	1.555
9/17/01		20	ESM91701BH8-20'	95.4	77	**358**	**435**	0.654	0.020	0.064	0.150	0.420
9/17/01		25	ESM91701BH8-25'	37.9	5	12	17	0.100	0.020	0.020	0.020	0.040
9/17/01		30	ESM91701BH8-30'	9.7	5	5	10	0.100	0.020	0.020	0.020	0.040
9/17/01	BH-9	20	ESM91701BH9-20'	10.7	5	68	73	0.100	0.020	0.020	0.020	0.040
9/17/01		25	ESM91701BH9-25'	10	28	**562**	**590**	0.100	0.020	0.020	0.020	0.040
9/16/01	Notrth Sidewall	8	SESM91602NSW8		25	**387**	**412**	0.292	0.025	0.050	0.048	0.169
9/16/01	South Sidewall	8	SESM91602SSW8		25	**557**	**582**	0.247	0.025	0.057	0.039	0.126
9/16/01	West Sidewall	8	SESM91602WSW8		**238**	**3410**	**3648**	1.811	0.025	0.322	0.228	1.236
9/16/01	East Sidewall	8	SESM91602ESW8		10	**195**	**205**	1.259	0.044	0.256	0.238	0.721
9/16/01	BottomHole	10	SESM91602BH10		**1530**	**4460**	**5990**	31.141	0.231	6.580	3.920	20.410
4/10/2003	West BottomHole	10	ESSM041003WBHC-10		**3240**	**825**	**4065**	4.912	0.020	0.432	1.100	3.360
4/10/2003	Center BottomHole	10	ESSM041003MBHC-10		**7460**	**2810**	**10270**	26.711	0.061	2.710	5.910	18.030
4/10/2003	East BottomHole	10	ESSM041003EBHC-10		**553**	17	**570**	0.560	0.020	0.020	0.128	0.392
4/21/2003	Spoils Pile	0-10	ESSM042103SPC		**413**	**2260**	**2673**	1.328	0.020	0.020	0.061	1.227

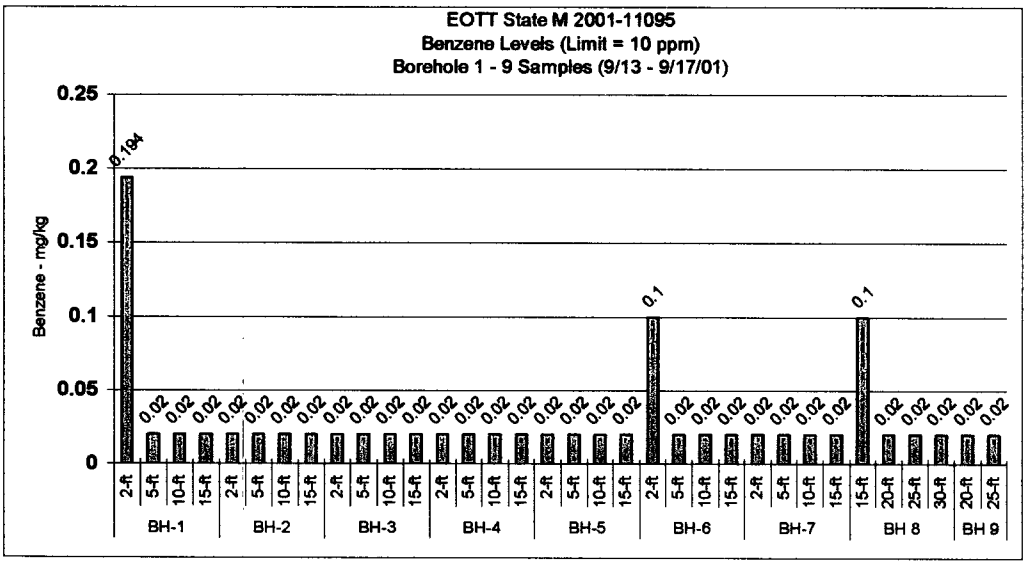
[1] bgs = below ground surface [2] VOC = Volatile Organic Constituents; (note: 100 ppm Isobutylene calibration gas = 101 ppm)

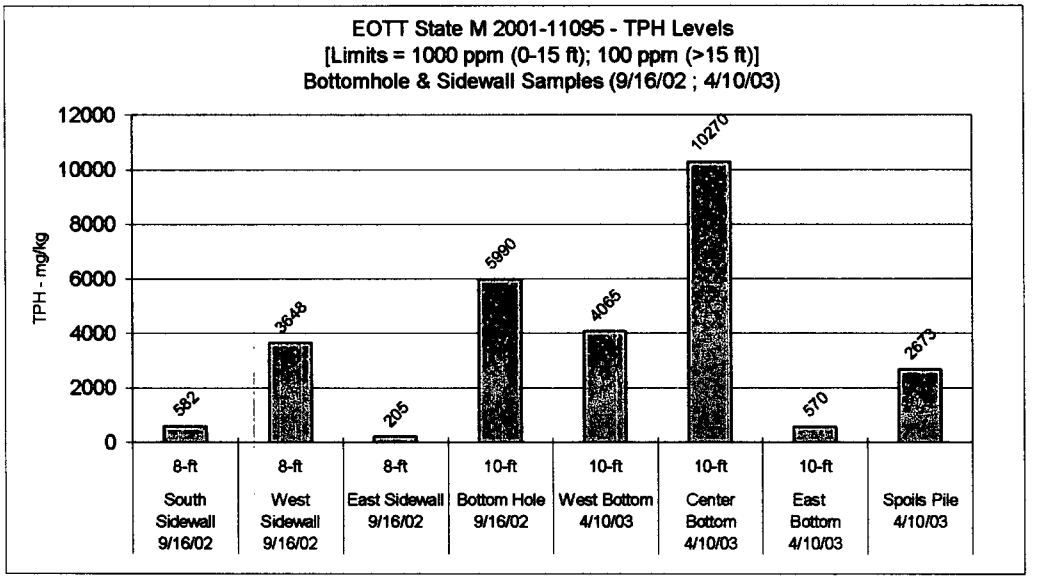
[3] GRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg) [4] DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg) [5] TPH - Total Petroleum Hydrocarbon (GRO+DRO)

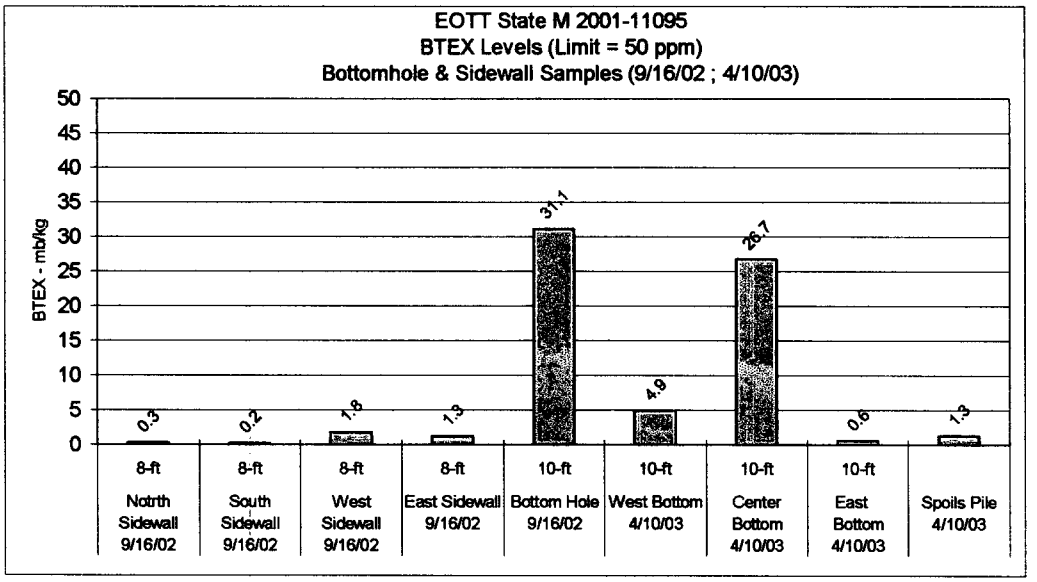
[6] BTEX = Sum of CoC's (Detection Limits = 0.005 mg/Kg; 0.015 mg/Kg) Note: Reported detection limits are considered "de minimus" values and are included in the TPH and BTEX summations.


EOTT State M 2001-11095 - TPH Levels
[Limits = 1000 ppm (0-15 ft); 100 ppm (>15 ft)]
Borehole 1 - 9 Samples (9/13 - 9/17/01)
TPH - mg/kg
6000
5000
4000
3000
2000
1000
0
5080
2942
435
580
204
BH-1
BH-2
BH-3
BH-4
BH-5
BH-6
BH-7
BH 8
BH 9


EOTT State M 2001-11095
BTEX Levels (Limit = 50 ppm)
Borehole 1 - 9 Samples (9/13 - 9/17/01)
BTEX - mb/kg
50
45
40
35
30
25
20
15
10
5
0
35.6
2.8
BH-1
BH-2
BH-3
BH-4
BH-5
BH-6
BH-7
BH 8
BH 9


EOTT State M 2001-11095
Benzene Levels (Limit = 10 ppm)
Borehole 1 - 9 Samples (9/13 - 9/17/01)
Benzene - mg/kg
0.25
0.2
0.15
0.1
0.05
0
0.194
0.1
0.1
BH-1
BH-2
BH-3
BH-4
BH-5
BH-6
BH-7
BH 8
BH 9


EOTT State M 2001-11095 - TPH Levels
[Limits = 1000 ppm (0-15 ft); 100 ppm (>15 ft)]
Bottomhole & Sidewall Samples (9/16/02 ; 4/10/03)
TPH - mg/kg
12000
10000
8000
6000
4000
2000
0
582
3648
205
5990
4065
10270
570
2673
8-ft South Sidewall 9/16/02
8-ft West Sidewall 9/16/02
8-ft East Sidewall 9/16/02
10-ft Bottom Hole 9/16/02
10-ft West Bottom 4/10/03
10-ft Center Bottom 4/10/03
10-ft East Bottom 4/10/03
Spoils Pile 4/10/03


EOTT State M 2001-11095
BTEX Levels (Limit = 50 ppm)
Bottomhole & Sidewall Samples (9/16/02 ; 4/10/03)
BTEX - mb/kg
50
45
40
35
30
25
20
15
10
5
0
0.3
0.2
1.9
1.3
31.1
4.9
26.7
0.6
1.3
8-ft Notrth Sidewall 9/16/02
8-ft South Sidewall 9/16/02
8-ft West Sidewall 9/16/02
8-ft East Sidewall 9/16/02
10-ft Bottom Hole 9/16/02
10-ft West Bottom 4/10/03
10-ft Center Bottom 4/10/03
10-ft East Bottom 4/10/03
Spoils Pile 4/10/03

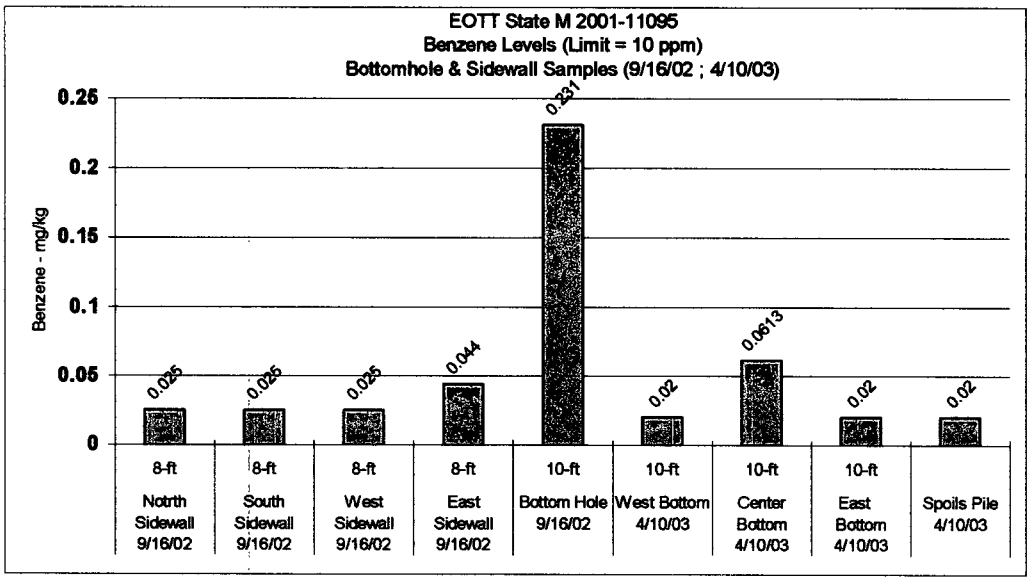
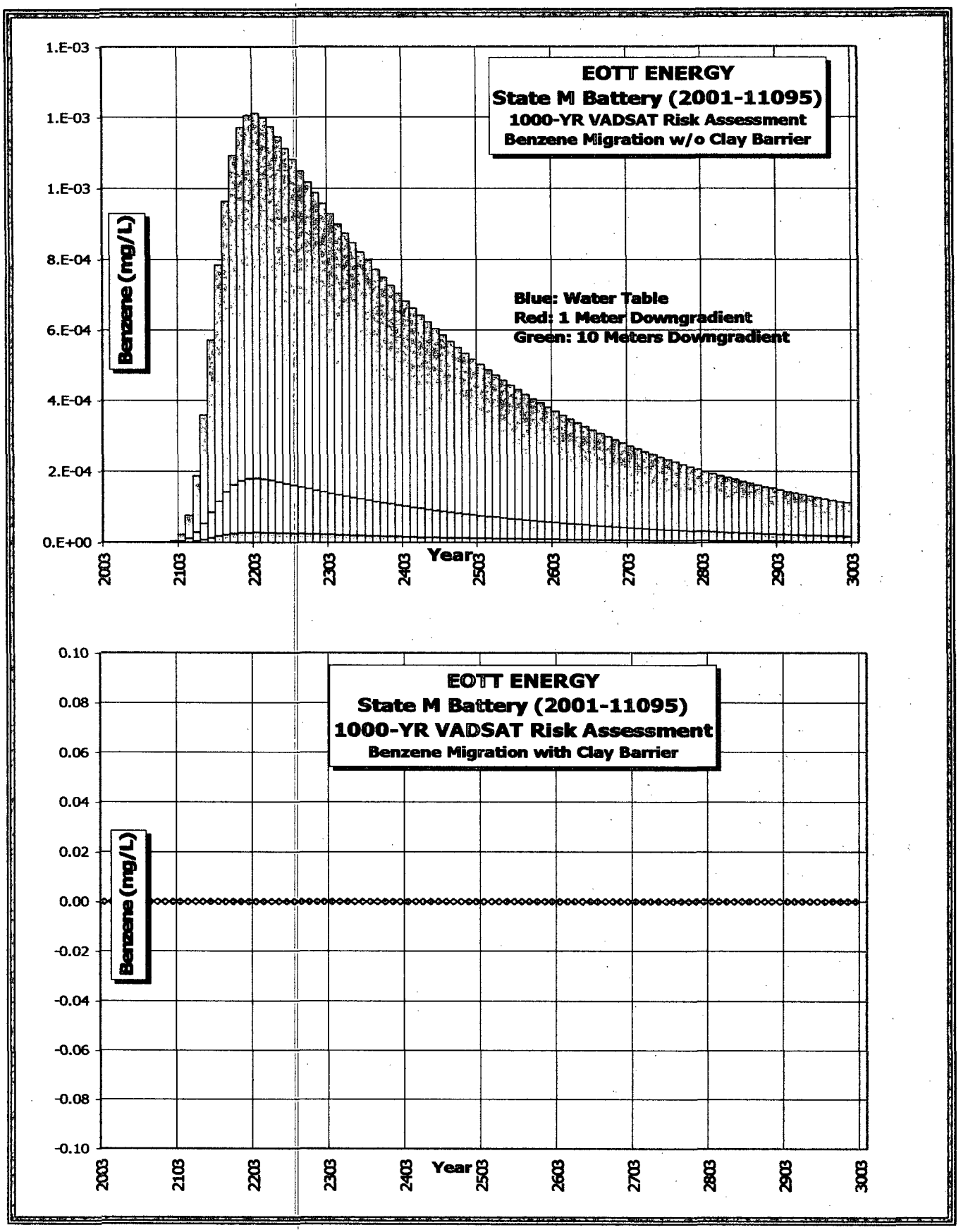

EOTT State M 2001-11095
Benzene Levels (Limit = 10 ppm)
Bottomhole & Sidewall Samples (9/16/02 ; 4/10/03)
Benzene - mg/kg
0.25
0.2
0.15
0.1
0.05
0
0.025
0.025
0.025
0.044
0.231
0.02
0.0613
0.02
0.02
8-ft Notrth Sidewall 9/16/02
8-ft South Sidewall 9/16/02
8-ft West Sidewall 9/16/02
8-ft East Sidewall 9/16/02
10-ft Bottom Hole 9/16/02
10-ft West Bottom 4/10/03
10-ft Center Bottom 4/10/03
10-ft East Bottom 4/10/03
Spoils Pile 4/10/03

Plate 10 - VADSAT Risk Assessment Charts



VADSAT Data (without a clay barrier)

Year	Water Table	1 Meter Down Gradient	10 Meter Down Gradient	100 Meter Down Gradient
2003	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	5.99E-13	8.48E-14	1.13E-14	4.18E-17
2063	2.60E-10	3.73E-11	5.15E-12	2.61E-14
2073	1.89E-08	2.73E-09	3.87E-10	2.44E-12
2083	4.19E-07	6.11E-08	8.80E-09	6.46E-11
2093	4.07E-06	5.96E-07	8.69E-08	7.15E-10
2103	2.18E-05	3.21E-06	4.72E-07	4.22E-09
2113	7.54E-05	1.11E-05	1.64E-06	1.57E-08
2123	1.87E-04	2.75E-05	4.10E-06	4.11E-08
2133	3.60E-04	5.31E-05	7.93E-06	8.27E-08
2143	5.71E-04	8.44E-05	1.27E-05	1.36E-07
2153	7.84E-04	1.16E-04	1.74E-05	1.91E-07
2163	9.63E-04	1.43E-04	2.14E-05	2.39E-07
2173	1.09E-03	1.62E-04	2.44E-05	2.75E-07
2183	1.17E-03	1.73E-04	2.61E-05	2.98E-07
2193	1.21E-03	1.79E-04	2.70E-05	3.09E-07
2203	1.21E-03	1.80E-04	2.71E-05	3.12E-07
2213	1.20E-03	1.78E-04	2.68E-05	3.09E-07
2223	1.17E-03	1.74E-04	2.63E-05	3.03E-07
2233	1.15E-03	1.70E-04	2.56E-05	2.96E-07
2243	1.11E-03	1.65E-04	2.49E-05	2.88E-07
2253	1.08E-03	1.60E-04	2.42E-05	2.80E-07
2263	1.05E-03	1.55E-04	2.35E-05	2.71E-07
2273	1.02E-03	1.51E-04	2.28E-05	2.63E-07
2283	9.86E-04	1.46E-04	2.21E-05	2.55E-07
2293	9.57E-04	1.42E-04	2.14E-05	2.48E-07
2303	9.28E-04	1.37E-04	2.08E-05	2.40E-07
2313	9.00E-04	1.33E-04	2.01E-05	2.33E-07
2323	8.72E-04	1.29E-04	1.95E-05	2.26E-07
2333	8.46E-04	1.25E-04	1.89E-05	2.19E-07
2343	8.20E-04	1.22E-04	1.84E-05	2.12E-07
2353	7.96E-04	1.18E-04	1.78E-05	2.06E-07
2363	7.72E-04	1.14E-04	1.73E-05	2.00E-07
2373	7.48E-04	1.11E-04	1.67E-05	1.94E-07
2383	7.26E-04	1.08E-04	1.62E-05	1.88E-07
2393	7.04E-04	1.04E-04	1.57E-05	1.82E-07
2403	6.82E-04	1.01E-04	1.53E-05	1.77E-07
2413	6.62E-04	9.80E-05	1.48E-05	1.71E-07
2423	6.42E-04	9.51E-05	1.44E-05	1.66E-07
2433	6.22E-04	9.22E-05	1.39E-05	1.61E-07
2443	6.03E-04	8.94E-05	1.35E-05	1.56E-07
2453	5.85E-04	8.67E-05	1.31E-05	1.51E-07
2463	5.67E-04	8.41E-05	1.27E-05	1.47E-07
2473	5.50E-04	8.15E-05	1.23E-05	1.42E-07
2483	5.34E-04	7.91E-05	1.19E-05	1.38E-07
2493	5.18E-04	7.67E-05	1.16E-05	1.34E-07
2503	5.02E-04	7.44E-05	1.12E-05	1.30E-07
2513	4.87E-04	7.21E-05	1.09E-05	1.26E-07
2523	4.72E-04	6.99E-05	1.06E-05	1.22E-07
2533	4.58E-04	6.78E-05	1.02E-05	1.18E-07
2543	4.44E-04	6.58E-05	9.93E-06	1.15E-07
2553	4.30E-04	6.38E-05	9.62E-06	1.11E-07
2563	4.17E-04	6.18E-05	9.33E-06	1.08E-07
2573	4.05E-04	6.00E-05	9.05E-06	1.05E-07
2583	3.92E-04	5.81E-05	8.78E-06	1.02E-07
2593	3.81E-04	5.64E-05	8.51E-06	9.85E-08
2603	3.69E-04	5.47E-05	8.25E-06	9.55E-08
2613	3.58E-04	5.30E-05	8.00E-06	9.26E-08
2623	3.47E-04	5.14E-05	7.76E-06	8.98E-08
2633	3.37E-04	4.99E-05	7.53E-06	8.71E-08
2643	3.26E-04	4.84E-05	7.30E-06	8.44E-08
2653	3.17E-04	4.69E-05	7.08E-06	8.19E-08
2663	3.07E-04	4.55E-05	6.86E-06	7.94E-08
2673	2.98E-04	4.41E-05	6.66E-06	7.70E-08
2683	2.89E-04	4.28E-05	6.46E-06	7.47E-08
2693	2.80E-04	4.15E-05	6.26E-06	7.24E-08
2703	2.71E-04	4.02E-05	6.07E-06	7.02E-08
2713	2.63E-04	3.90E-05	5.89E-06	6.81E-08
2723	2.55E-04	3.78E-05	5.71E-06	6.60E-08
2733	2.48E-04	3.67E-05	5.54E-06	6.40E-08
2743	2.40E-04	3.56E-05	5.37E-06	6.21E-08
2753	2.33E-04	3.45E-05	5.21E-06	6.02E-08
2763	2.26E-04	3.34E-05	5.05E-06	5.84E-08
2773	2.19E-04	3.24E-05	4.90E-06	5.66E-08
2783	2.12E-04	3.15E-05	4.75E-06	5.49E-08
2793	2.06E-04	3.05E-05	4.60E-06	5.33E-08
2803	2.00E-04	2.96E-05	4.47E-06	5.17E-08
2813	1.94E-04	2.87E-05	4.33E-06	5.01E-08
2823	1.88E-04	2.78E-05	4.20E-06	4.86E-08
2833	1.82E-04	2.70E-05	4.07E-06	4.71E-08
2843	1.77E-04	2.62E-05	3.95E-06	4.57E-08
2853	1.71E-04	2.54E-05	3.83E-06	4.43E-08
2863	1.66E-04	2.46E-05	3.71E-06	4.30E-08
2873	1.61E-04	2.39E-05	3.60E-06	4.17E-08
2883	1.56E-04	2.31E-05	3.49E-06	4.04E-08
2893	1.51E-04	2.24E-05	3.39E-06	3.92E-08
2903	1.47E-04	2.18E-05	3.28E-06	3.80E-08
2913	1.42E-04	2.11E-05	3.18E-06	3.68E-08
2923	1.38E-04	2.05E-05	3.09E-06	3.57E-08
2933	1.34E-04	1.98E-05	2.99E-06	3.46E-08
2943	1.30E-04	1.92E-05	2.90E-06	3.36E-08
2953	1.26E-04	1.87E-05	2.82E-06	3.26E-08
2963	1.22E-04	1.81E-05	2.73E-06	3.16E-08
2973	1.18E-04	1.75E-05	2.65E-06	3.06E-08
2983	1.15E-04	1.70E-05	2.57E-06	2.97E-08
2993	1.11E-04	1.65E-05	2.49E-06	2.88E-08

VADSAT Risk Assessment Criteria and Data

VADSAT Version 3.0

A Monte Carlo Model for Assessing the Effects of Soil Contamination on Groundwater Quality

Developed by:
Environmental Systems and Technologies Inc.
Blacksburg, Virginia
Tel: 703-552-0685, Fax: 703-951-5307

For
The American Petroleum Institute
1995

PROJECT TITLE:EOTT STATE M BATTERY

SOURCE AND CHEMICAL DATA ****
DEPTHM, MEAN THICKNESS OF WASTE ZONE (m) = 6.09600

DEPSTD, STD.DEV. OF THICKNESS OF WASTE ZONE = 0.00000

AREAM, MEAN WASTE ZONE AREA (m^2) = 18.58100
STDA, STD.DEV. OF WASTE ZONE AREA = 0.00000

RLWM, MEAN L/W RATIO (-) = 1.00000
STDRLW, STD.DEV. OF L/W RATIO = 0.00000

CVRTHM, MEAN VALUE OF COVER THICKNESS (m) = 3.04800
CVRTHS, STD.DEV. OF COVER THICKNESS = 0.00000

KOCM, MEAN ORG. CARBON PARTITION COEF (cm^3/g)= 83.20000
STDKOC, STD.DEV. OF ORG.CARBON PARTITION COEF= 0.00000

FMOLM, MEAN INIT.VOL.FRAC. OF CONTAMINANT(-) = 0.00034
FMOLSTD, STD.DEV. OF VOL.FRAC. OF CONTAMINANT= 0.00000

CMFM, MASS OF CONTAMINANT PER MASS OF WASTE(mg/kg) = 1.00000
CMFSD, STD.DEV. OF MASS CONTAMINANT PER MASS WASTE = 0.00000

HCCONM, HYDCARBON MASS FRAC. IN WASTE (mg/kg)= 2900.00000
HCCONS, STD OF HYDCARBON MASS FRAC. IN WASTE = 0.00000

CHEMICAL SPECIES benzene

MOLW, MOLECULAR WT. OF CONTAMINANT (g/mole) = 78.10000

AVERMW, AVG. MOL. WT. OF OILY WASTE (g/mole) = 100.00000

RHO, DENSITY OF CONTAMINANT (g/cm^3) = 0.87600

RHOG, AVERAGE DENSITY OF HYDROCARBON (g/cm^3)= 0.90000

SOL, AQUEOUS SOLUB. OF CONTAMINANT (g/m^3) = 1790.00000

HENRYC, HENRY'S CONSTANT (-) = 0.23000

DIFFA, DIFFUSION COEF. IN FREE AIR (m^2/day) = 0.77000

HYDROGEOLOGICAL PROPERTIES

** UNSATURATED ZONE INPUT PARAMETERS **
GAMMAM, MEAN UNSAT ZONE DECAY COEF (1/day) = 0.00010
STDGAM, STD.DEV. OF UNSAT ZONE DECAY COEF = 0.00000

UNFOCM, MEAN UNSAT ZONE ORGANIC CARBON FRACTION (-) = 0.00000
UNFOCS, STD.DEV. OF UNSAT ZONE ORGANIC CARBON FRAC. = 0.00000

FKSW, MEAN SAT. CONDUCTIVITY (m/day) = 0.02900
STDFKS, STD.DEV. OF SAT. CONDUCTIVITY = 0.000

DISTM, MEAN DEPTH TO GROUNDWATER (m) = 15.24000
STDDST, STD.DEV. OF DEPTH TO GROUNDWATER = 0.00000

UNPORM, MEAN VADOSE ZONE POROSITY (-) = 0.38000
SUNPOR, STD.DEV. OF VADOSE ZONE POROSITY = 0.00000

PARNM, MEAN VALUE OF VG PARAMETER N (-) = 1.23000
SDPARN, STD.DEV. OF VG PARAMETER N = 0.00000

RESWCM, MEAN RESIDUAL WATER CONTENT (-) = 0.01110
RESWCS, STD.DEV. OF RESIDUAL WATER CONTENT = 0.00000

ALFINM = 0, UNSAT DISPERSIVITY CALCULATED INTERNALLY
** SATURATED ZONE INPUT PARAMETERS **

LAMBW, MEAN SAT. ZONE DECAY COEFF. (1/day) = 0.00010
SLAMB, STD.DEV. OF SAT. ZONE DECAY COEFF. = 0.00000

PORM, MEAN SAT. ZONE POROSITY (-) = 0.20000
STDPOR, STD.DEV. OF SAT. ZONE POROSITY = 0.00000

FOCM, MEAN SAT. ZONE ORG. CARBON FRAC. (-) = 0.00000
STDFOC, STD.DEV. SAT. ZONE ORG. CARBON FRAC.= 0.00000

ALRLTM, MEAN DISPERS, RATIO LONG/TRANSV. (-) = 3.00000
SALRLT, STD.DEV. OF DISP. RATIO LONG/TRANSV. = 0.00000

ALRTVM, MEAN DISPERS. RATIO TRANSV/VERT. (-) = 87.00000
SALRTV, STD.DEV. OF DISP. RATIO TRANSV/VERT. = 0.00000

CONDS, SAT. HYDRAULIC COND. (m/day) = 1.03000
SCONDS, STD.DEV. OF SAT HYDRAULIC COND. = 0.00000

GRADS, HYDRAULIC GRADIENT (m/m) = 0.02700
SGRADS, STD.DEV. OF HYDRAULIC GRADIENT = 0.00000

HMEAN, MEAN AQUIFER THICKNESS (m) = 15.24000
STDH, STD.DEV. OF AQUIFER THICKNESS = 0.00000

QINM, MEAN INFILTRATION RATE (m/day) = 0.00011
QINSTD, STD.DEV. OF INFILTRATION RATE = 0.00000

LOCATION OF RECEPTORS:

	X (M)	Y (M)	Z (M)
RECEPTOR(1)	1.0	0.0	0.0
RECEPTOR(2)	10.0	0.0	0.0
RECEPTOR(3)	100.0	0.0	0.0

Plate 11 – Compaction Certification (Clay Layer #1)

LABORATORY TEST REPORT
PETTIGREW and ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To:	Environmental Plus Attn: Roger Boone P.O. Box 1558 Eunice, NM 88231	**Material:**	Red Clay
		Test Method:	ASTM: D 2922
Project:	NM State EOT		
Date of Test:	April 24, 2003	**Depth:**	1' Below Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	15' N. & 25' E. of the SW Corner of Pit	97.1	13.3	

Control Density:	110.4 ASTM: D 698	**Optimum Moisture:**	15.6%
Required Compaction:	96%		
Lab No.:	03 2427-2428		
Copies To:	Environmental Plus		

PETTIGREW and ASSOCIATES

BY: _____

Plate 12 – Compaction Certification (Clay Layer #2)

LABORATORY TEST REPORT
PETTIGREW and ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To:	Environmental Plus Attn: Roger Boono P.O. Box 1558 Eunice, NM 88231	**Material:**	Red Clay
		Test Method:	ASTM: D 2922
Project:	NM State EOT		
Date of Test:	April 28, 2003	**Depth:**	Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-2	15' N. & 25' E. of the SW Corner of Pit	102.2	10.0	

Control Density:	110.4 ASTM: D 698	**Optimum Moisture:**	15.6%
Required Compaction:	95%		
Lab No.:	03 2468-2469		
Copies To:	Environmental Plus		

PETTIGREW and ASSOCIATES

BY: S/E.T.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☑ Final Report

Name of Company	Contact
EOTT Energy Pipeline LP	**Frank Hernandez**
Address	Telephone No.
P.O. Box 1660 Midland, TX 79702	**(915) 638-3799**
Facility Name	Facility Type
State M Battery	**Crude Oil Gathering Line**

Surface Owner	Mineral Owner	Lease No.
State of New Mexico	**NA**	**NA**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from South Line	Feet from West Line	Longitude	Latitude	County:
C	**29**	**22S**	**37E**	**4317**	**2300**	**103°11'10"W**	**32°22'03"N**	**Lea**

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil Release and associated components	**unknown - historical >25**	**2 bbl**
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
4" Steel Crude Oil Pipeline	**9/3/2001**	**9/3/2001 4:30 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☑ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Internally Corroded 4" pipeline (Eunice Gathering), repaired with clamp.

Describe Area Affected and Cleanup Action Taken.*
Area = ~1,700-ft^2. Ground water occurs at ~65-ft bgs. The Site Rank is 20. The excavation was expanded to 85' X 45' X 10' and the contaminated soil was covered with 2-ft compacted clay barrier.

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

Signature: Frank Hernandez	OIL CONSERVATION DIVISION	
Printed Name: **Frank Hernandez**	Approved by District Supervisor:	
Title: **EOTT District Environmental Supt.**	Approval Date:	Expiration Date:
Date: **6/23/03** Phone: **(915) 638-3799**	Conditions of Approval:	☐ Attached

Site Metrics Form

eott energy

Incident Date and NMOCD Notified?	
9/3/2001 4:30 PM	

SITE: State M Battery		Assigned Site Reference 2001-11095
Company:	EOTT Energy Pipeline LP	
Street Address:	5805 East Highway 80	
Mailing Address:	P.O. Box 1660	
City, State, Zip:	Midland, TX 79702	
Representative:	Frank Hernandez	
Representative Telephone:	(915) 638-3799	
Telephone:		
Fluid volume released (bbls):	An - historic	Recovered (bbls): 2
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.		
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:	2001-11095	
Source of contamination:	4" Steel Crude Oil Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other:	State of New Mexico State Land Office, Santa Fe	
LSP Dimensions:	Site diagrams attached	
LSP Area:	1,750 -ft^2	
Location of Reference Point (RP):		
Location distance and direction from RP:		
Latitude:	32°22'03"N	
Longitude:	103°11'10"W	
Elevation above mean sea level:	3379 -ft amsl	
Feet from South Section Line:	4317	
Feet from West Section Line:	2300	
Location - Unit and 1/4 1/4:	UL- C	NE 1/4 of NW 1/4
Location - Section:	29	
Location - Township:	22S	
Location - Range:	37E	
Surface water body within 1000' radius of Site:	0	
Surface water body within 1000' radius of Site:	0	
Domestic water wells within 1000' radius of Site:	0	
Domestic water wells within 1000' radius of Site:	0	
Agricultural water wells within 1000' radius of Site:	0	
Agricultural water wells within 1000' radius of Site:	0	
Public water supply wells within 1000' radius of Site:	0	
Public water supply wells within 1000' radius of Site:	0	
Depth (ft) from land surface to ground water (DG):	65	
Depth (ft) of contamination (DC):	30	
Depth (ft) to ground water (DG - DC = DtGW):	35	

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

Total Site Ranking Score and Acceptable Concentrations

Parameter	**20 or >**	10	0
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

LARORATORY SOIL ANALYSES REPORTS

AnalySys Inc. (Austin, TX)

Environmental Lab of Texas (Odessa, TX)

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119364 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH1-2"
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 07:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	J	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	194	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	220	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	437	µg/Kg	20	<20	09/20/01	8260b	---	3.9	92.3	97.4	94.6
o-Xylene	211	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	215	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119365 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH1-5"
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 07:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119366 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH1-10"
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 08:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS Inc.

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119367 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH1-15'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 08:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119368 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH2-2
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 09:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119369 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH2-5
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 09:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	11.8	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	15.1	93	96.6	90.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119370 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH2-10
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119371 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH2-15
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 10:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Respectfully Submitted,

Richard Laster

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119372 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH3-2
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119373 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH3-5'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 11:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	6.47	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119374 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH3-10'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 11:47

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119375 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH3-15
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 12:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	10.2	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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Richard Laster

Richard Laster

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ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119376 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH4-2
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 13:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15	94.4	96.7	93.4
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.6	91.1	97.1	94.6
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.9	92.3	97.4	94.6
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	9.7	90.7	96.9	95.5
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	15.1	93	96.6	90.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119377 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH4-5
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 14:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	20.9	µg/Kg	20	<20	09/20/01	8260b	---	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	0.8	88.9	90.4	107.7

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119378 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH4-10'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 14:18

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Respectfully Submitted,

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119379 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91301BH4-15
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/13/2001 **Time:** 14:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/20/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/20/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/20/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/20/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/20/01	8260b	---	0.8	88.9	90.4	107.7

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119380 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH5-2'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	36.5	µg/Kg	20	<20	09/21/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	60.1	µg/Kg	20	<20	09/21/01	8260b	---	3.1	93.8	94.6	90.4
o-Xylene	22.4	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	34.6	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Eunice NM 88231

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

Report#/Lab ID#: 119381 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH5-5'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 07:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	3.3	126.6	88.6	114.6
TPH by GC (as diesel-ext)	---	---	---	---	09/19/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	14.4	115.1	87.5	89.2
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Eunice NM 88231

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

Report#/Lab ID#: 119382 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH5-10'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 07:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119383 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH5-15'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 07:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Richard Laster

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ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119384 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH6-2'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	3410	mg/Kg	50	<50	09/21/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	1670	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<100	µg/Kg	100	<100	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	8820	µg/Kg	100	<100	09/21/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	16100	µg/Kg	100	<100	09/21/01	8260b	---	3.1	93.8	94.6	90.4
o-Xylene	6780	µg/Kg	100	<100	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	3810	µg/Kg	100	<100	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119385 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH6-5'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 08:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	18.1	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119386 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH6-10'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 08:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119387 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH6-15'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 08:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	5.95	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119388 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH7-2'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	192	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	12.4	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	4.3	91.3	116	91.9
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	8.3	97.6	92.6	88.1
m,p-Xylenes	21.1	µg/Kg	20	<20	09/21/01	8260b	---	6.6	97.7	92.2	88.7
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	6.9	95.3	88.8	88.9
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	5.8	92.2	118.4	91.7

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Eunice NM 88231

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

Report#/Lab ID#: 119389 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH7-5'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 09:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	28.6	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	J	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119390 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH7-10'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 10:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119391 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91401BH7-15'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/14/2001 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	6.43	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119392 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH8-15
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 07:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	2540	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	402	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<100	µg/Kg	100	<100	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	598	µg/Kg	100	<100	09/21/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	1090	µg/Kg	100	<100	09/21/01	8260b	---	3.1	93.8	94.6	90.4
o-Xylene	465	µg/Kg	100	<100	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	498	µg/Kg	100	<100	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119393 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH8-20
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	358	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	77.1	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	150	µg/Kg	20	<20	09/21/01	8260b	---	3.7	93.1	94.6	89.4
m,p-Xylenes	289	µg/Kg	20	<20	09/21/01	8260b	---	3.1	93.8	94.6	90.4
o-Xylene	131	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	63.9	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119394 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH8-25
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	11.5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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

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AnalySys Inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119395 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH8-30
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 09:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/20/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119396 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH9-20'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 10:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	68	mg/Kg	5	<5	09/21/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/21/01	8015 mod.	J	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 119397 **Report Date:** 09/25/01
Project ID:
Sample Name: ESM91701BH9-25'
Sample Matrix: soil
Date Received: 09/19/2001 **Time:** 12:25
Date Sampled: 09/17/2001 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	562	mg/Kg	5	<5	09/21/01	8015 mod.	---	1.1	122.3	90.4	114.8
TPH by GC (as diesel-ext)	---	---	---	---	09/20/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	27.6	mg/Kg	5	<5	09/21/01	8015 mod.	---	0.1	103.3	87.1	93.4
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/21/01	8260b	---	1	89.8	93.4	109.5
Ethylbenzene	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.7	93.1	94.6	89.4
m,p-Xylenes	<20	µg/Kg	20	<20	09/21/01	8260b	J	3.1	93.8	94.6	90.4
o-Xylene	<20	µg/Kg	20	<20	09/21/01	8260b	---	2.9	92	95.5	89.7
Toluene	<20	µg/Kg	20	<20	09/21/01	8260b	---	0.8	88.9	90.4	107.7

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CHAIN-OF-CUSTODY

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

Send Reports To
Company Name ~~Soft Energy EPI~~
Address
City State Zip
ATTN: Pat McFarland
Phone Fax

Bill to (if different)
Company Name Enron
Address
City State Zip
ATTN:
Phone Fax

#64

Analyses Requested (1)
Please attach explanatory information as required

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Sampler: Bradley Blair

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015m	BTEX 8021b							Comments
ESM91301BH1-2'	9-13-01	7:30	1	X			119364	X	X							
ESM91301BH1-5'	9-13-01	7:55	1	X			119365	X	X							
ESM91301BH1-10'	9-13-01	8:15	1	X			119366	X	X							
ESM91301BH1-15'	9-13-01	8:45	1	X			119367	X	X							
ESM91301BH2-2	9-13-01	9:20	1	X			119368	X	X							
ESM91301BH2-5	9-13-01	9:40	1	X			119369	X	X							
ESM91301BH2-10	9-13-01	10:00	1	X			119370	X	X							
ESM91301BH2-15	9-13-01	10:20	1	X			119371	X	X							

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

Temp 5.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Blair				Melanie Humphrey	ASI	09/19/01	1225

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

CHAIN-OF-CUSTODY

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

Send Reports to: Environmental Plus Inc.
Company Name EOTT Energy
Address 2100 AVE O
City Eunice **State** NM **Zip** 88231
ATTN: Pat McCasland
Phone 394-3481 **Fax** 394-2601

Bill to (if different)
Company Name EOTT Energy
Address Midland + 5805 East highway 80
City Midland **State** Tx **Zip** 79701
ATTN: Wayne Brunette
Phone 915-556-0190 **Fax** 915-684-3456

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2001-11095 New Mexico State M **Sampler:** Fred By Ellen

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015 BTEX 8021b								Comments
ESM91701BH8-15	9-19-01	7:30	1	X			119392	X	X							
ESM91701BH8-20	9-19-01	8:30	1	X			119393	X	X							
ESM91701BH8-25	9-19-01	9:00	1	X			119394	X	X							
ESM91701BH9-30	9-19-01	9:25	1	X			119395	X	X							
ESM91701BH9-20'	9-19-01	10:20	1	X			119396	X	X							
ESM91701BH9-25'	9-19-01	11:00	1	X			119397	X	X							

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

Temp 5.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Fred By Ellen	EPI	9/18/01		Melanie Humphrey	ASI	09/19/01	12:25

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

ANALYTICAL REPORT

Prepared for:

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

Project:	New Mexico State M
PO#:	2001-11095
Order#:	G0204547
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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
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
0204547-01	SESM91602NSW8'	SOIL	9/16/02 10:00	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204547-02	SESM91602SSW8'	SOIL	9/16/02 10:10	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204547-03	SESM91602WSW8'	SOIL	9/16/02 10:20	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204547-04	SESM91602ESW8'	SOIL	9/16/02 10:30	9/18/02 15:20	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 1.5 C		
	8015M					
	8021B/5030 BTEX					
0204547-05	SESM91602BH10'	SOIL	9/16/02 10:40	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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
Location: None Given

Lab ID: 0204547-01
Sample ID: SESM91602NSW8'

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	**24.9**	10.0
DRO, >C12-C35	**387**	10.0
TOTAL, C6-C35	**412**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 14:06	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**0.050**	0.025
Toluene	**0.048**	0.025
p/m-Xylene	**0.144**	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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
Location: None Given

Lab ID: 0204547-02
Sample ID: SESM91602SSW8'

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	**25.1**	10.0
DRO, >C12-C35	**557**	10.0
TOTAL, C6-C35	**582**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/23/02 14:28	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**0.057**	0.025
Toluene	**0.039**	0.025
p/m-Xylene	**0.092**	0.025
o-Xylene	**0.034**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**95%**	**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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
Location: None Given

Lab ID: 0204547-03
Sample ID: SESM91602WSW8'

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	**238**	10.0
DRO, >C12-C35	**3,410**	10.0
TOTAL, C6-C35	**3,648**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/22/02 0:52	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**0.025**	0.025
Ethylbenzene	**0.322**	0.025
Toluene	**0.228**	0.025
p/m-Xylene	**0.914**	0.025
o-Xylene	**0.322**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**118%**	**80**	**120**
Bromofluorobenzene	**109%**	**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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
Location: None Given

Lab ID: 0204547-04
Sample ID: SESM91602ESW8'

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	**195**	10.0
TOTAL, C6-C35	**195**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003199-02		9/22/02 1:14	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**0.044**	0.025
Ethylbenzene	**0.256**	0.025
Toluene	**0.238**	0.025
p/m-Xylene	**0.575**	0.025
o-Xylene	**0.146**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**118%**	**80**	**120**
Bromofluorobenzene	**113%**	**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#: G0204547
Project: 2001-11095
Project Name: New Mexico State M
Location: None Given

Lab ID: 0204547-05
Sample ID: SESM91602BH10'

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	**1530**	50.0
DRO, >C12-C35	**4460**	50.0
TOTAL, C6-C35	**5990**	50.0

8021B/5030 BTEX

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

Parameter	Result mg/kg	RL
Benzene	**0.231**	0.025
Ethylbenzene	**6.58**	0.025
Toluene	**3.92**	0.025
p/m-Xylene	**13.8**	0.025
o-Xylene	**6.61**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**318%**	**80**	**120**
Bromofluorobenzene	**146%**	**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#: G0204547

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#: G0204547

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003199-02			<0.025		
Ethylbenzene-mg/kg	0003199-02			<0.025		
Toluene-mg/kg	0003199-02			<0.025		
p/m-Xylene-mg/kg	0003199-02			<0.025		
o-Xylene-mg/kg	0003199-02			<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.%	
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.115	115.%	
Toluene-mg/kg	0204546-13	0	0.1	0.114	114.%	
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.230	115.%	
o-Xylene-mg/kg	0204546-13	0	0.1	0.113	113.%	
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%
Ethylbenzene-mg/kg	0204546-13	0	0.1	0.113	113.%	1.8%
Toluene-mg/kg	0204546-13	0	0.1	0.112	112.%	1.8%
p/m-Xylene-mg/kg	0204546-13	0	0.2	0.228	114.%	0.9%
o-Xylene-mg/kg	0204546-13	0	0.1	0.111	111.%	1.8%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0003199-05		0.1	0.104	104.%	
Ethylbenzene-mg/kg	0003199-05		0.1	0.109	109.%	
Toluene-mg/kg	0003199-05		0.1	0.108	108.%	
p/m-Xylene-mg/kg	0003199-05		0.2	0.230	115.%	
o-Xylene-mg/kg	0003199-05		0.1	0.108	108.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

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

Order#: G0204547

Project: New Mexico State M

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
SESM91602NSW8'	0204547-01	SOIL	09/16/2002	09/18/2002
SESM91602SSW8'	0204547-02	SOIL	09/16/2002	09/18/2002
SESM91602WSW8'	0204547-03	SOIL	09/16/2002	09/18/2002
SESM91602ESW8'	0204547-04	SOIL	09/16/2002	09/18/2002
SESM91602BH10'	0204547-05	SOIL	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: _____ 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: Roger Boone

Project Name: New Mexico State M
Project #: 2001-11095
Project Loc:
PO#:

020457		Date Sampled	Time Sampled	No. of Containers 4x2 glass	ICE	HNO	HCI	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/CL/SAR/EC	TPH 418.1	TPH TX1005EXT	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiabilty	RUSH TAT	Standard TAT
01	SESM91602NSW8'	09/16/2002	10:00	1	X									X					X				X					
02	SESM91602SSW8'	09/16/2002	10:10	1	X									X					X				X					
03	SESM91602WSW8'	09/16/2002	10:20	1	X									X					X				X					
04	SESM91602ESW8'	09/16/2002	10:30	1	X									X					X				X					
05	SESM91602BH10'	09/16/2002	10:40	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
Roger Boone	9-18	11:45			
Relinquished:	Date	Time	Received by:	Date	Time
	9-18-02	1520	Jeanne McMurrey	9-18-02	1520

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: John Good
Address: P.O. Box 1558
Eunice, NM 88231

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

Report#/Lab ID#: 141255 **Report Date:** 04/28/03
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003WBHC-10
Sample Matrix: soil
Date Received: 04/15/2003 **Time:** 09:15
Date Sampled: 04/10/2003 **Time:** 08:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**3240**	mg/Kg	50	<50	04/23/03	8015 mod.	---	13.8	94.8	79.5	72.6
TPH by GC (as diesel-ext)	---	---	---	---	04/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**825**	mg/Kg	50	<50	04/23/03	8015 mod.	---	6.7	76.4	75.3	74.3
Volatile organics-8260b/BTEX	---		---		04/17/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	04/17/03	8260b	---	2	92.2	91.6	91.5
Ethylbenzene	**1100**	µg/Kg	20	<20	04/17/03	8260b	---	3.9	104.9	103.8	98.8
m,p-Xylenes	**2210**	µg/Kg	20	<20	04/17/03	8260b	---	5	105.2	100.5	99
o-Xylene	**1150**	µg/Kg	20	<20	04/17/03	8260b	---	4	107.5	102.2	102.2
Toluene	**432**	µg/Kg	20	<20	04/17/03	8260b	---	3	101.7	101.3	97.5

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** State M Battery 2001-11095	**Report#/Lab ID#:** 141255
Attn: John Good	**Sample Name:** ESSM041003WBHC-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	**none/diluted**	diluted @ 5X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	111	65-115	---
Toluene-d8	8260b	91.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 141255 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** John Good
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003WBHC-10

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

AnalySys Inc.

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

Client: Environmental Plus, Inc.
Attn: John Good
Address: P.O. Box 1558
Eunice, NM 88231

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

Report#/Lab ID#: 141256 **Report Date:** 04/28/03
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003MBHC-10
Sample Matrix: soil
Date Received: 04/15/2003 **Time:** 09:15
Date Sampled: 04/10/2003 **Time:** 08:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**7460**	mg/Kg	50	<50	04/23/03	8015 mod.	---	13.8	94.8	79.5	72.6
TPH by GC (as diesel-ext)	---	---	---	---	04/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**2810**	mg/Kg	50	<50	04/23/03	8015 mod.	---	6.7	76.4	75.3	74.3
Volatile organics-8260b/BTEX	---		---		04/16/03	8260b	---	---	---	---	---
Benzene	**61.3**	µg/Kg	20	<20	04/17/03	8260b	---	2	92.2	91.6	91.5
Ethylbenzene	**5910**	µg/Kg	100	<100	04/16/03	8260b	---	3.9	104.9	103.8	98.8
m,p-Xylenes	**11700**	µg/Kg	100	<100	04/16/03	8260b	---	5	105.2	100.5	99
o-Xylene	**6330**	µg/Kg	100	<100	04/16/03	8260b	---	4	107.5	102.2	102.2
Toluene	**2710**	µg/Kg	100	<100	04/16/03	8260b	---	3	101.7	101.3	97.5

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** State M Battery 2001-11095	**Report#/Lab ID#:** 141256
Attn: John Good	**Sample Name:** ESSM041003MBHC-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	**none/diluted**	diluted @ 5X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	79.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 141256 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** John Good
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003MBHC-10

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: John Good
Address: P.O. Box 1558
Eunice, NM 88231

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

Report#/Lab ID#: 141257 **Report Date:** 04/28/03
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003EBHC-10
Sample Matrix: soil
Date Received: 04/15/2003 **Time:** 09:15
Date Sampled: 04/10/2003 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**553**	mg/Kg	5	<5	04/23/03	8015 mod.	---	13.8	94.8	79.5	72.6
TPH by GC (as diesel-ext)	---	---	---	---	04/22/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	**17.4**	mg/Kg	5	<5	04/23/03	8015 mod.	---	6.7	76.4	75.3	74.3
Volatile organics-8260b/BTEX	---		---		04/16/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	04/16/03	8260b	---	2	92.2	91.6	91.5
Ethylbenzene	**128**	µg/Kg	20	<20	04/16/03	8260b	---	3.9	104.9	103.8	98.8
m,p-Xylenes	**291**	µg/Kg	20	<20	04/16/03	8260b	---	5	105.2	100.5	99
o-Xylene	**101**	µg/Kg	20	<20	04/16/03	8260b	---	4	107.5	102.2	102.2
Toluene	<20	µg/Kg	20	<20	04/16/03	8260b	J	3	101.7	101.3	97.5

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

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

Client: Environmental Plus, Inc.	**Project ID:** State M Battery 2001-11095	**Report#/Lab ID#:** 141257
Attn: John Good	**Sample Name:** ESSM041003EBHC-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	62.9	50-150	---
p-Terphenyl	8015 mod.	51.1	50-150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	99	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 141257 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** John Good
Project ID: State M Battery 2001-11095
Sample Name: ESSM041003EBHC-10

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes: _____

Analysis Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 2209 N. Padre Island Dr., Corpus Christi, TX 78408
512-444-5896 FAX: 512-447-4766

Company Name	Environmental Plus, Inc.
EPI Project Manager	John Good
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	EOTT Energy Co.
Project Name (Inv. Ref)	State M Battery 2001-11095
Project Location	UL-C SECTION 29 T22S R37E
EPI Sampler Name	John Good

Bill To

eott energy

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{2-})	pH	TCLP	OTHER >>>
141255 1	ESSM041003WBHC-10	G	1			X					X		10-Apr	8:00	X	X					
141256 2	ESSM041003MBHC-10	G	1			X					X		10-Apr	8:05	X	X					
141257 3	ESSM041003EBHC-10	G	1			X					X		10-Apr	8:10	X	X					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Sampler Relinquished: John Good — Date 4-10 Time 4:00 — Received By:

Relinquished By: — Date 4/15/03 Time 0915 — Received By: (lab staff) Melanie Humphrey

Delivered by: — Sample Cool & Intact Yes No — Checked By:

Fax Results To John Good 505-394-2601

REMARKS:

T= 5.4°C

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☑ Final Report

Name of Company	Contact
EOTT Energy Pipeline LP	**Frank Hernandez**
Address	Telephone No.
P.O. Box 1660 Midland, TX 79702	**(915) 638-3799**
Facility Name	Facility Type
State M Battery	**Crude Oil Gathering Line**

Surface Owner	Mineral Owner	Lease No.
State of New Mexico	**NA**	**NA**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from South Line	Feet from West Line	Longitude	Latitude	County:
C	**29**	**22S**	**37E**	**4317**	**2300**	**103°11'10"W**	**32°22'03"N**	**Lea**

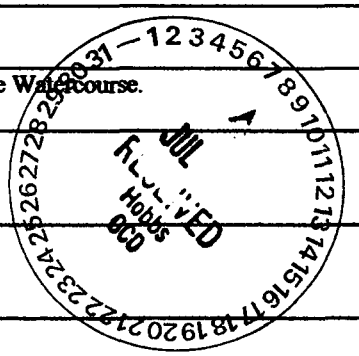
NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil Release and associated components	**unknown - historical >25**	**2 bbl**
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
4" Steel Crude Oil Pipeline	**9/3/2001**	**9/3/2001 4:30 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☑ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Internally Corroded 4" pipeline (Eunice Gathering), repaired with clamp.

Describe Area Affected and Cleanup Action Taken.*
Area = ~1,700-ft². Ground water occurs at ~65-ft bgs. The Site Rank is 20. The excavation was expanded to 85' X 45' X 10' and the contaminated soil was covered with 2-ft compacted clay barrier.



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

Signature: Frank Hernandez	OIL CONSERVATION DIVISION	
Printed Name: **Frank Hernandez**	Approved by District Supervisor:	
Title: **EOTT District Environmental Supt.**	Approval Date:	Expiration Date:
Date: **6/23/03** Phone: **(432) 638-3799**	Conditions of Approval:	☐ Attached