PLAINS
ALL AMERICAN
PIPELINE, L.P.

SITE CHARACTERIZATION
AND
PROPOSAL FOR RISK-BASED CLOSURE

ARROWHEAD GRAYBURG 8" GATHERING
PLAINS REF: 2003-00176

SE¼ OF THE SE¼ OF SECTION 2, TOWNSHIP 22 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO

~4.5 MILES SOUTHWEST (342°) OF
EUNICE, LEA COUNTY, NEW MEXICO

LATITUDE: N32° 24' 55.774" **LONGITUDE: W103° 13' 51.267"**

Plains - 34053
incident - nPAC0602634729

JUNE 8, 2004

PREPARED BY:

Environmental Plus, Inc.
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P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
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9 June 2004

Mr. Larry Johnson
NM Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division – Environmental Bureau
1625 North French Drive
Hobbs, NM 88240

Re: Site Characterization and Proposal for Risk-Based Closure #2003-00176
UL-P Section 2 T22S R36E, Lea County, New Mexico
Landowner: State of New Mexico

Dear Mr. Johnson,

Environmental Plus, Inc. (EPI), on behalf of Mr. Jimmy Byrant, Plains All American Pipeline, L.P., submits for your consideration this *Site Characterization and Proposal for Risk-Based Closure Report* for the above-referenced site. Based on data collected during the site delineation process, Plains recommends the installation of a clay barrier in the base of the excavation to prevent vertical migration of the remaining contaminants. The excavation will then be backfilled with clean soil and graded to allow natural drainage.

Should you have any questions or comments please call Mr. Ben Miller or me at EPI's offices, or at 505-390-2088 or 505-390-7306 respectively. Mr. Bryant may be contacted through Plain's Midland office at 432-684-3497.

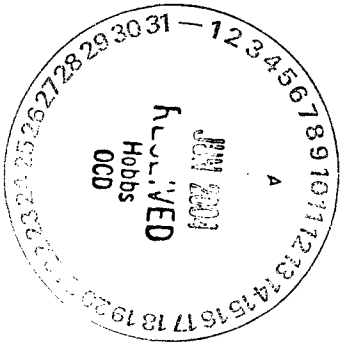
All official correspondence should be addressed to:

Mr. Jimmy Bryant
Plains All American Pipeline, L.P.
P.O. Box 1660
5805 East Highway 80
Midland, Texas 79703

Sincerely,

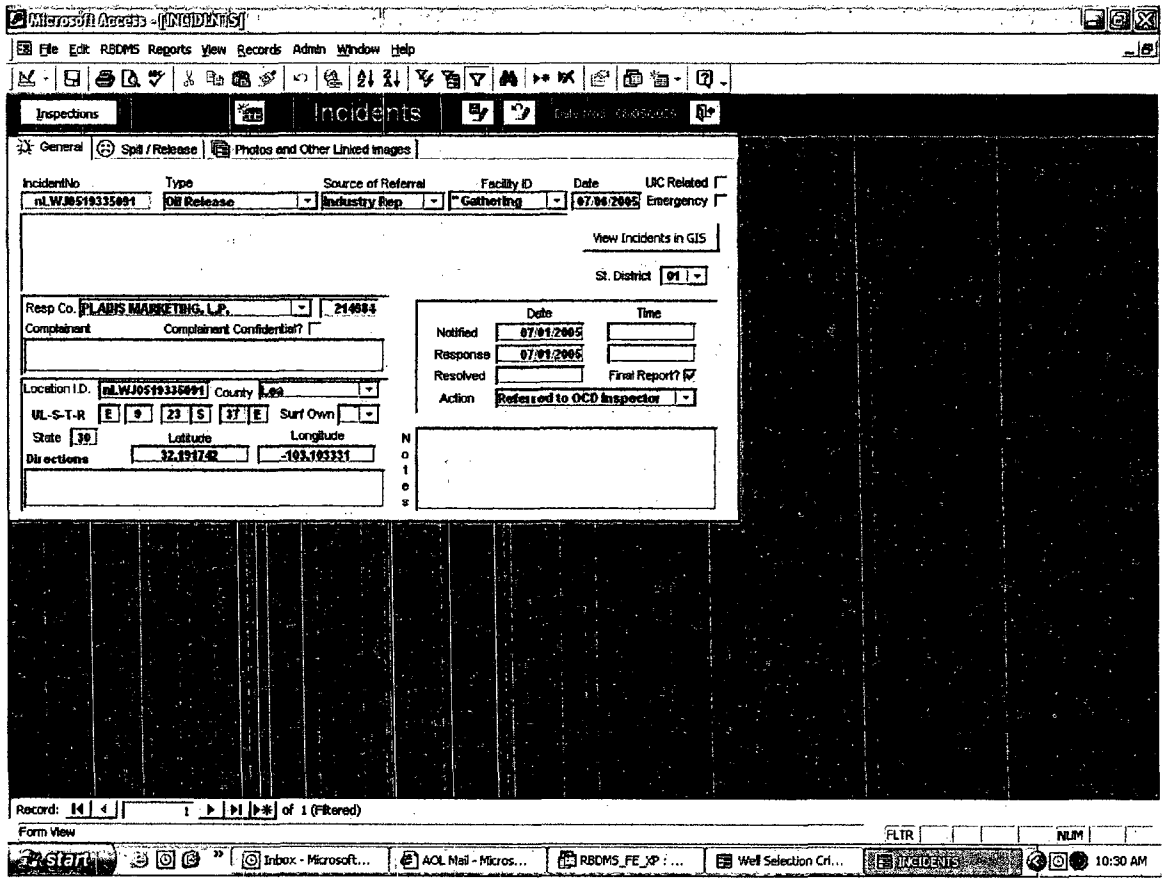
ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.
Hydrogeologist



cc: Jimmy Bryant, Plains – Midland
Jeff Dann, Plains – Houston
Sherry Miller, EPI President
Ben Miller, EPI Vice President and General Manager

ENVIRONMENTAL PLUS, INC.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1.0 Background

On June 30, 2003, a release of approximately 20 barrels of crude oil occurred from the Arrowhead Grayburg 8-Inch Gathering Line in Lea County, New Mexico (reference Figures 1 & 2). No product was recovered from the release, which covered an area of approximately 2,100 square feet and was 300 feet by 7 feet.

2.0 Site Description

The site is located approximately 4.5 miles southwest of Eunice, Lea County, New Mexico on property owned by the State of New Mexico.

2.1 Historical Use

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

2.2 Legal Description

The legal description for the site is: Unit Letter – P (SE¼ of the SE¼), Section 2, Township 22 South, Range 36 East, at latitude N 32° 24' 55.774" and longitude W 103° 13' 51.267". The site is at an elevation of approximately 3,512 feet above mean sea level.

2.3 Photographic Documentation

Photographs are included as Appendix II.

2.5 Ecological Description

The area is typical of the Upper Chiuahuan Desert Biome consisting primarily of hummocky sand dunes interspersed with Honey Mesquite (*Prosopis glandulosa*), Harvard Shinoak (*Querqus harvardii*) and typical desert grasses. Mammals represented include Orrd's and Merriam's Kangaroo Rats, Deer Mice, White Throated Wood Rat, Cottontail Rabbit, Blackmailed Jackrabbit, Pronghorn Antelope and Mule Deer. Reptiles, amphibians and birds are numerous and typical of the area. A Survey of *Listed, Threatened or Endangered Species* was not conducted.

3.0 Environmental Media Characterization

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

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993); and

- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable contaminant concentration thresholds for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX) are determined based on the following:

- Depth to groundwater from deepest detectable contamination;
- Wellhead protection area (i.e., distance from potable water supply wells); and
- Distance to bodies of surface water.

3.1 Area Groundwater Levels

The New Mexico Office of the State Engineer database indicates there are three water supply wells and one exploratory well within 4,000 feet of the release site (reference Table 3). The closest of these wells (#4399) is located approximately 1,240 feet southeast of the release site. In addition, there is a windmill well located approximately 600 feet east of the release site. Records from the New Mexico Office of the State Engineer indicate an average depth to water of approximately 123 feet below ground surface (bgs) in the vicinity of the release. The water level in the windmill well was measured on June 4, 2004 and recorded at 128.5 feet below the top of casing.

3.2 Depth to Groundwater Calculation

The NMOCD requires the site to be ranked to determine applicable remedial thresholds for TPH, benzene and total BTEX. The depth to groundwater is defined as the vertical distance from the lowermost contaminants to the seasonal high groundwater elevation. Depth to groundwater at the release site is approximately 123 feet bgs. Soil samples collected during the advancement of soil borings at the site indicate contamination to depths of at least 35 feet bgs. The calculated NMOCD depth to groundwater is approximately 88 feet.

3.3 Groundwater Gradient

The groundwater gradient in the area of the release is generally to the southeast according to the USGS Groundwater Report #6 – *Geology and Groundwater Conditions in Southern Lea County, New Mexico* (Nicholson, Jr. and Clebsch, 1961).

3.4 Wellhead Protection Area

There is a windmill well located approximately 600 feet east of the release site. There are no other water wells located within a 1,000-foot radius of the release site, based on information available from the New Mexico Office of the State Engineer.

3.5 Distance to Nearest Surface Water Body

There is a pond associated with the windmill well discussed above, located approximately 600 feet east of the release site.

3.6 Identification of Remedial Action Levels

Remedial goals for the impacted soil at this site were determined in accordance with NMOCD Guidelines. The NMOCD depth to groundwater is calculated to be approximately 88 feet bgs.

3.6.1 Site Ranking

Based on the information provided above, the site has the following scores and resultant site ranking:

- NMOCD Depth to Groundwater – 50 to 99 feet = 10 points
- Wellhead Protection Area - <1,000 feet from a water source = 20 points
- Distance to Surface Water Body – 200 to 1,000 horizontal feet = 10 points
- **SITE RANKING = 40 POINTS**

3.6.2 Remedial Action Levels

Based on the Site Ranking, the remedial action levels for the soil at this site according to NMOCD Guidelines are:

Parameter	Remedial Action Levels
Benzene[A]	10 parts per million
BTEX	50 parts per million
TPH	100 parts per million

[A] – 100 ppm field analysis may be substituted for laboratory analyses.

The New Mexico Water Quality Control Commission (NMWQCC) groundwater maximum contaminant levels TPH, BTEX and chloride are as follows:

- TPH – no standard
- Benzene – 10 micrograms per liter (µg/L)
- Toluene – 75 µg/L
- Ethylbenzene - 75 µg/L
- Total xylenes – 62 µg/L
- Chloride – 250 milligrams per liter (mg/L)

4.0 Site Delineation

The release occurred in the steel Arrowhead Grayburg 8-inch gathering line on June 30, 2003. Initial site activities consisted of exposing the point of release and repairing the line with a clamp. Once the line was repaired, excavation activities continued to remove hydrocarbon saturated soil at the site. After the saturated soil had been removed from the site, a decision was made to advance soil borings to delineate the vertical and horizontal extents of contamination.

A total of seven soil borings were advanced from September 10 through 12, 2003 to depths ranging from 15 to 35 feet bgs (reference Figure 4). During the advancement of the soil borings, samples were collected at five-foot intervals for field and laboratory analyses. Upon collection of the samples, a portion was immediately placed in laboratory provided containers and placed on ice for transport to an independent laboratory for quantification of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX). The remainder of the sample was placed in a one-quart polyethylene bag and screened for the presence of organic vapors utilizing a MiniRae photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The soil borings were advanced until organic vapor concentrations were recorded at <100 parts per million (ppm) for two consecutive samples.

Field analyses of the samples indicated organic vapor concentrations above 100 ppm to depths of 20 feet bgs, with concentrations ranging from 1.7 ppm to 2,999 ppm (reference Table 1). Based on these results, it appeared that the highest levels of contamination were restricted to the near surface and excavation to a depth of 10 feet bgs would remove the majority of the contamination.

Analytical results for these samples indicated that contaminant concentrations were above the NMOCD remedial thresholds to depths of 10 feet bgs (reference Table 1). The only exception was the sample collected from the 25 to 27 foot sampling interval in soil boring BH-4. Analytical results for this sample indicated TPH concentrations of 151 milligrams per kilogram (mg/Kg) and were reported as non-detectable (ND) for BTEX at or above each analytes respective laboratory method detection limit (MDL). Based on these results, it was decided to excavate the hydrocarbon impacted soil to a depth of approximately 10 feet bgs.

4.1 Excavation Activities

Initial excavation activities, conducted on July 1, 2003, included exposing the point of release in order to repair the line with a clamp and removing saturated soil from the site. A total of 290 cubic yards of soil were excavated and transported to the Lea Station Land Farm. The excavation measured approximately 43 feet (north/south) by 18 feet (east/west) by 10 feet deep (reference Figure 3).

Remediation excavation activities commenced on February 16, 2004 and continued through February 18, 2004. A total of 866 cubic yards of soil were excavated during

this time and transported to the Lea Station Land Farm. On February 18, 2004, the excavation basin was split into five separate sections and composite samples were collected from the excavation floor (reference Figure 5) and analyzed in the field for the presence of organic vapors utilizing an UltraRae PID equipped with 10.6 eV lamp. Results of the field analyses indicated organic vapors present at concentrations ranging from 228 to 1,144 ppm. Samples were not submitted for laboratory analyses due to the elevated levels of organic vapors detected in the field analyses.

Based on the elevated concentrations of organic vapors in the soil samples, a decision was made to complete test trenches in each of the sections and collect soil samples for laboratory analyses to determine the vertical extent of the release. The trenches were completed to depths ranging from 9 to 25 feet bgs, depending on the field analyses completed on February 18, 2004. The samples were collected on February 26, 2004 and submitted to an independent laboratory for quantification of TPH and BTEX. Analytical results indicated concentrations below the remedial goals as set by the NMOCD for all analytes with the exception of TPH in the samples collected from Section A and Section D (reference Table 2). Analytical results for these samples indicated TPH concentrations slightly above the remedial threshold of 100 ppm.

Based on analytical results for the samples collected on February 26, 2004, excavation activities resumed and continued the March 8, 2004. During this time, approximately 508 cubic yards of soil were excavated and transported to the Lea Station Land Farm. The excavation depth varied from 11 feet at the western end to 6 feet at the eastern end; however, the ground surface slopes downward from west to east, so the bottom of the excavation was at approximately the same elevation throughout. The excavation was split into three sections and samples collected from the sidewalls and base of the excavation (reference Figure 6). The samples were submitted to an independent laboratory for quantification of TPH and BTEX. Analytical results for these samples indicated contamination remaining above the remedial thresholds in five of the eight samples.

5.0 Soil Remediation

The excavated soil was transported to the Lea Station Land Farm for treatment.

6.0 Groundwater Remediation

Based on the depth of groundwater and analytical results obtained from soil samples collected during the advancement of the soil borings, it is believed that groundwater was not impacted due to this release. Therefore, no groundwater remediation is required.

7.0 Closure Proposal for Site Soil

Approximately 1,270 cubic yards of hydrocarbon impacted soil remains at the site and is represented by approximately 15 feet of impacted soil remaining beneath the excavation floor. It is proposed to isolate the remaining source term with an impermeable barrier constructed of dense compactable red clay with a minimum permeability of 1×10^{-5} cm/sec. The barrier will extend a minimum of four feet beyond the edges of soil impacted above the NMOCD remedial thresholds and will be a minimum of one-foot thick. The barrier will be installed in six-inch lifts, compacted and tested to verify that the compaction has achieved a minimum of 95% its Proctor Density. Installation of the clay barrier at a depth of approximately 11 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegradation of contaminants in the soil. After the barrier has been installed and tested to be acceptable, the excavation will be backfilled with clean soil from the Lea Station Land Farm. Prior to backfilling the excavation, composite samples will be collected from every 100 cubic yards of backfill material and screened for the presence of organic vapors utilizing an UltraRae PID equipped with a 10.6 eV lamp. Acceptable field headspace readings will be ≤ 100 ppm.

8.0 Risk / Exposure Assessment

To support and justify the closure proposal discussed in Section 7.0, a conservative risk/exposure assessment was conducted utilizing RISC Version 4.03, developed by Lynn R. Spence for BP Oil. The analytical information collected and the viable and supportive RISC risk/exposure assessment supports approval of this closure proposal addressing the soil contamination at the Plains All American (formerly Link energy) Arrowhead Grayburg 8" Gathering Line release site.

8.1 Contaminated Soil Distribution

It is estimated that approximately 1,270 cubic yards of hydrocarbon impacted soil remain, extending approximately 15 feet from the base of the current excavation. In addition, there is a limited amount of impacted soil in the sidewalls of the excavation in the vicinity of the point of release. The quantity of impacted soil remaining in the sidewalls has not been calculated; however, it will be removed prior to the placement of the clay barrier.

8.2 Engineered Barrier

The proposed compacted clay barrier will extend a minimum of four feet past the edges of soil impacted above the NMOCD remedial thresholds, will be a minimum of one-foot thick following compaction and will be installed in 6-inch lifts. The oversized barrier will prevent further vertical migration of the hydrocarbon source term. The clay barrier will have a minimum permeability of 1×10^{-5} cm/sec and compacted to 95% of its Proctor Density. The barrier will be installed from 10 to 11 feet bgs and will be sufficiently isolated as to ensure the barrier will not be eroded nor penetrated inadvertently by human activity. A conservative groundwater

risk/exposure assessment was conducted to demonstrate the effectiveness of the clay barrier in preventing groundwater impacts by isolating the remaining hydrocarbon source term and interrupting the vertical migration pathway.

8.3 Conservative Model Inputs

To ensure that the closure proposal would prevent contaminants from impacting the area groundwater, conservative hydrogeologic parameters were used in the simulations. The input parameters/variables are included in Appendix IV.

8.4 Simulation I: No Barrier

A model was completed to simulate existing conditions to determine if groundwater would be impacted by the release. The input parameters for this model are included in Appendix IV.

Results of this simulation indicate that the groundwater would be impacted in approximately 23 years; however, concentrations would be below the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards (reference Tables 3 & 4 and Figures 7 & 8). In addition, this simulation indicated that contaminants would naturally biodegrade over time (reference Tables 3 & 4 and Figures 7 & 8).

8.5 Simulation II: Clay Barrier

A model was completed to simulate the placement of the clay barrier in the excavation at a depth of approximately 10 to 11 feet bgs. The input parameters for this model are included in Appendix IV.

Results of this simulation indicate that the barrier will be effective in eliminating the vertical transport mechanism (i.e., infiltration) and adequately isolate the remaining source term (reference Tables 3 & 4 and Figures 7 & 8).

9.0 Conclusions

The computer modeling efforts illustrate that the installation of an engineered barrier will adequately protect groundwater from future impacts by permanently interrupting the vertical transport mechanism. In addition, the engineered barrier will serve to isolate the hydrocarbon source term from the environment for a duration sufficient to allow natural biodegradation of contaminant concentrations to below acceptable levels.

10.0 Recommendations

Based on the results of the computer modeling efforts, it is recommended that a clay barrier be installed in the base of the excavation. The clay barrier should be installed in 6-inch lifts, compacted and tested to verify the barrier has been compacted to a minimum of

at least 95% of its Proctor Density. Prior to installing the clay barrier, hydrocarbon impacted soil remaining in the sidewalls of the excavation above the NMOCD remedial thresholds shall be removed and transported to the Lea Station Land Farm. The removal of the aforementioned soil shall be documented via laboratory analyses. Upon documentation that the impacted soil has been removed, the clay barrier should be installed.

Results of these proposed remedial activities will be documented in a final report submitted to Plains and the NMOCD. EPI, on behalf of Plains, requests formal written approval from the NMOCD to implement these proposed remedial activities.

FIGURES

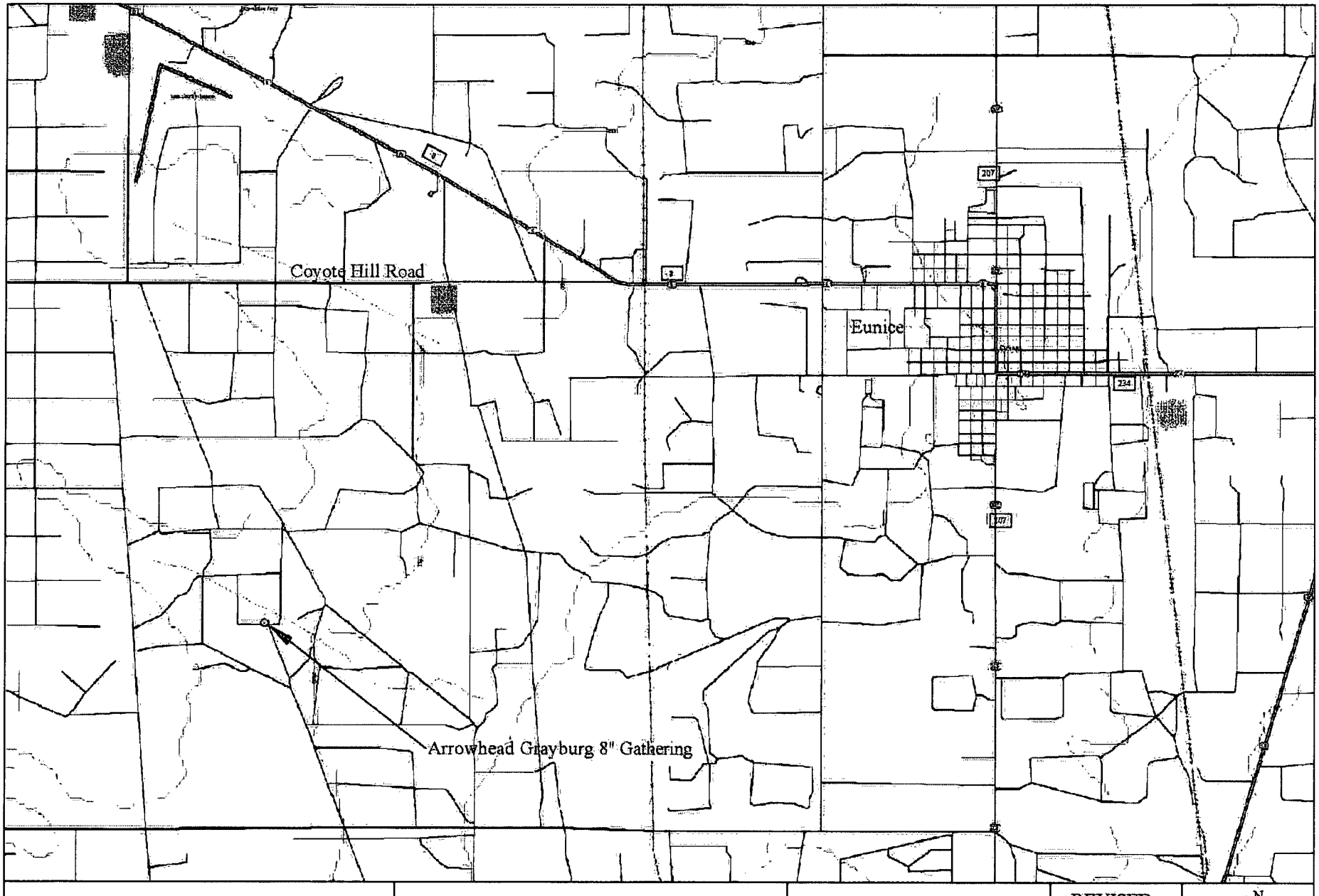

Figure 1 Area Map Plains All American Arrowhead Grayburg 8" Gathering	Lea County, New Mexico SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E N 32° 24' 55.8" W 103° 13' 51.3" Elevation: 3,512 feet amsl	DWG By: Iain Olness May 2004	REVISED:	N
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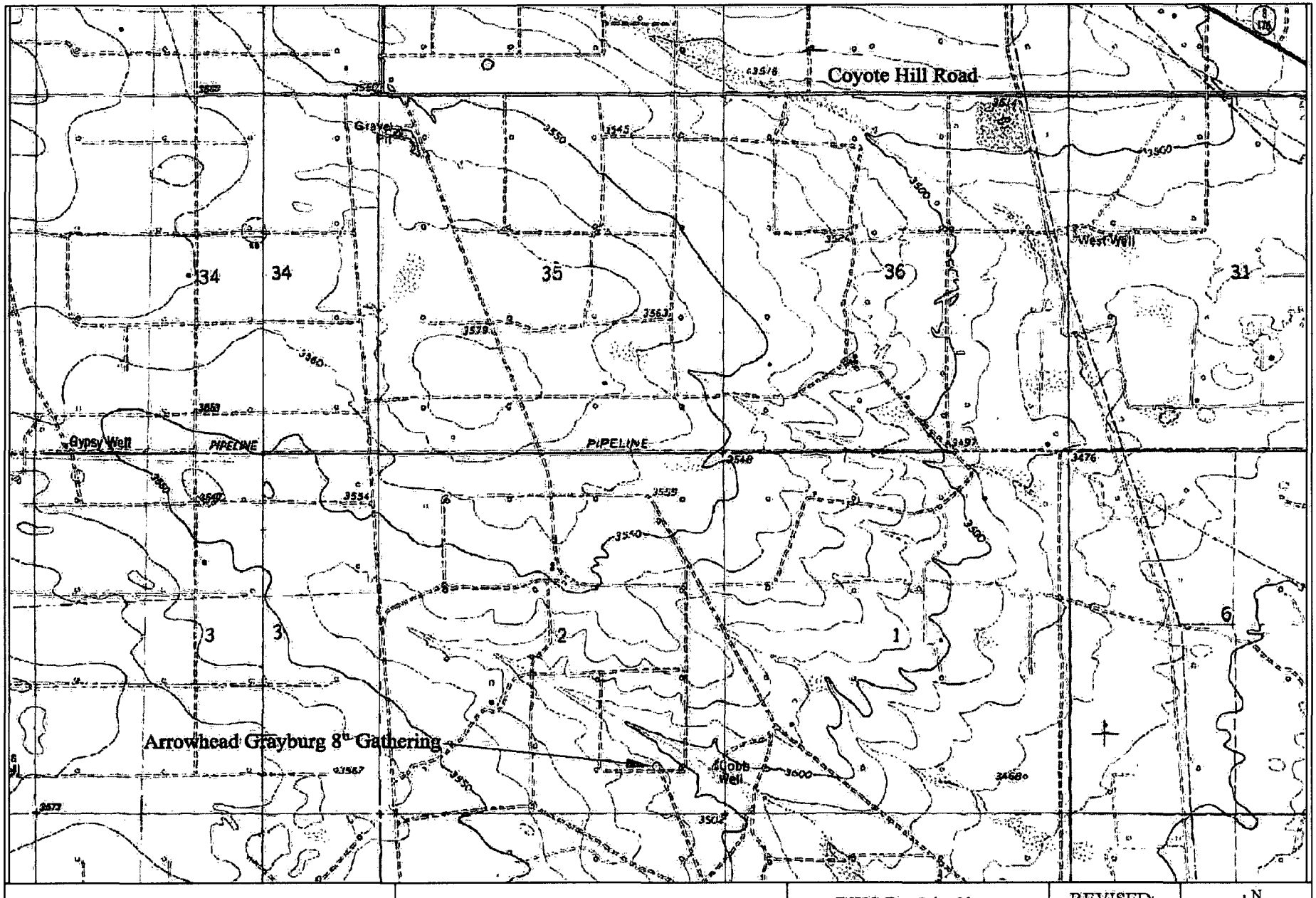

Figure 2 Site Location Map Plains All American Arrowhead Grayburg 8" Gathering	Lea County, New Mexico SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E N 32° 24' 55.8" W 103° 13' 51.3" Elevation: 3,512 feet amsl	DWG By: Iain Olness May 2004 0 2,000 4,000 Miles	REVISED: SHEET 1 of 1 N

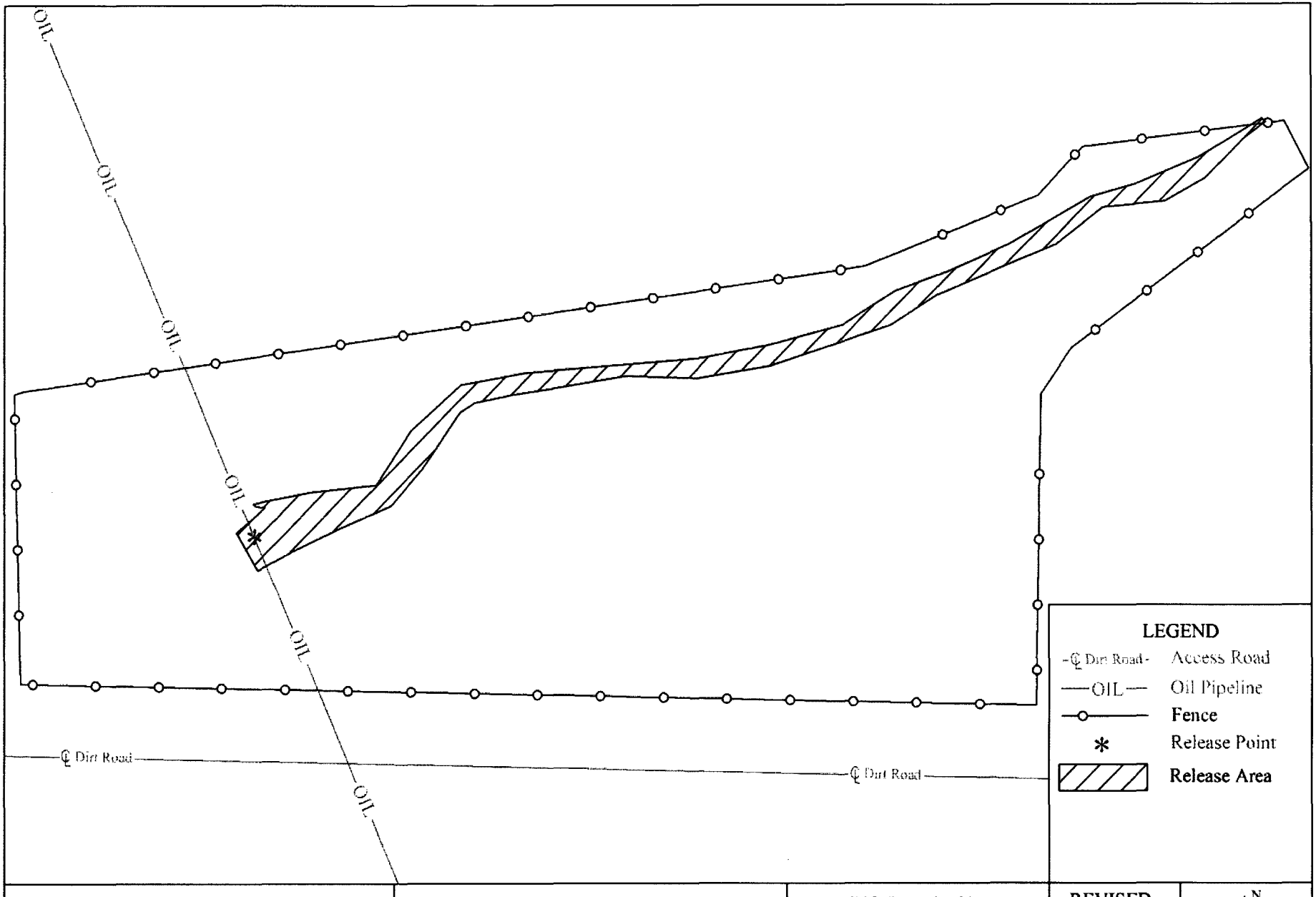

Figure 3
Site Map
Plains All American
Arrowhead Grayburg 8" Gathering

Lea County, New Mexico
SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E
N 32° 24' 55.8" W 103° 13' 51.3"
Elevation: 3,512 feet amsl

DWG By: Iain Olness
May 2004

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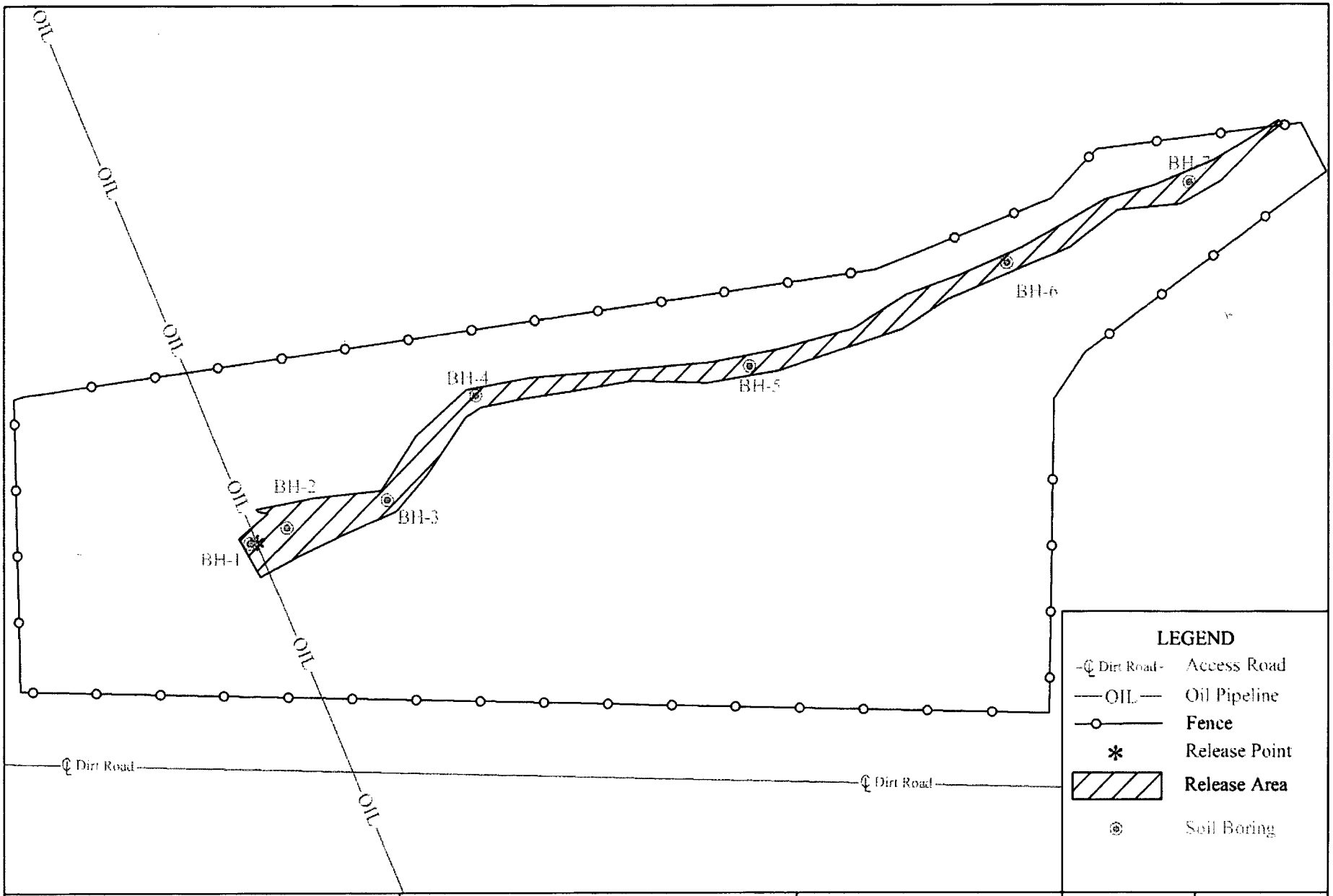

Figure 4 Soil Boring Location Map Plains All American Arrowhead Grayburg 8" Gathering	Lea County, New Mexico SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E N 32° 24' 55.8" W 103° 13' 51.3" Elevation: 3,512 feet amsl	DWG By: Iain Olness May 2004 0 40 80 Feet	REVISED: SHEET 1 of 1	N

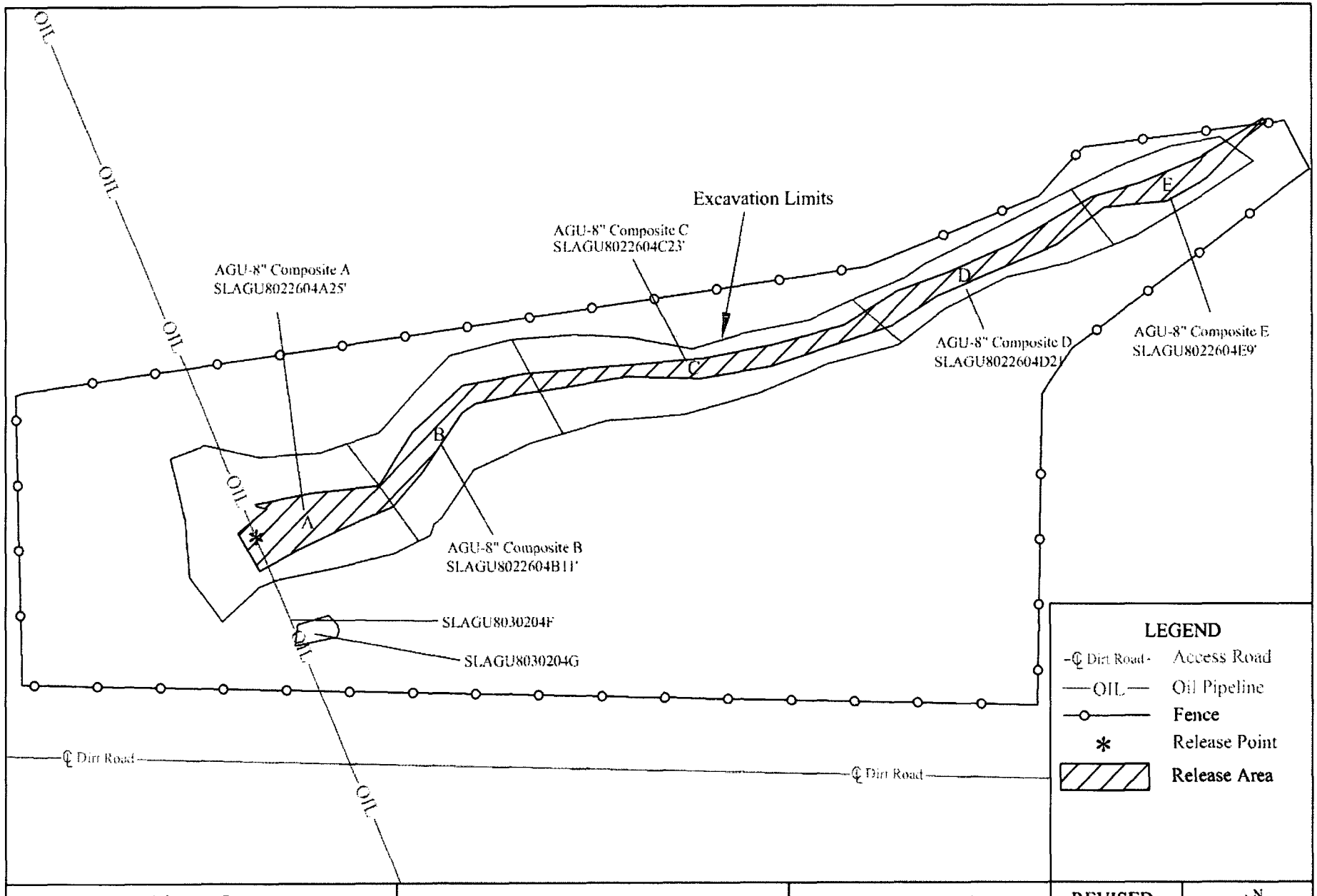

Figure 5
February 18 thru March 2, 2004
Sampling Location Map
Plains All American
Arrowhead Grayburg 8" Gathering

Lea County, New Mexico
SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E
N 32° 24' 55.8" W 103° 13' 51.3"
Elevation: 3,512 feet amsl

DWG By: Iain Olness
May 2004

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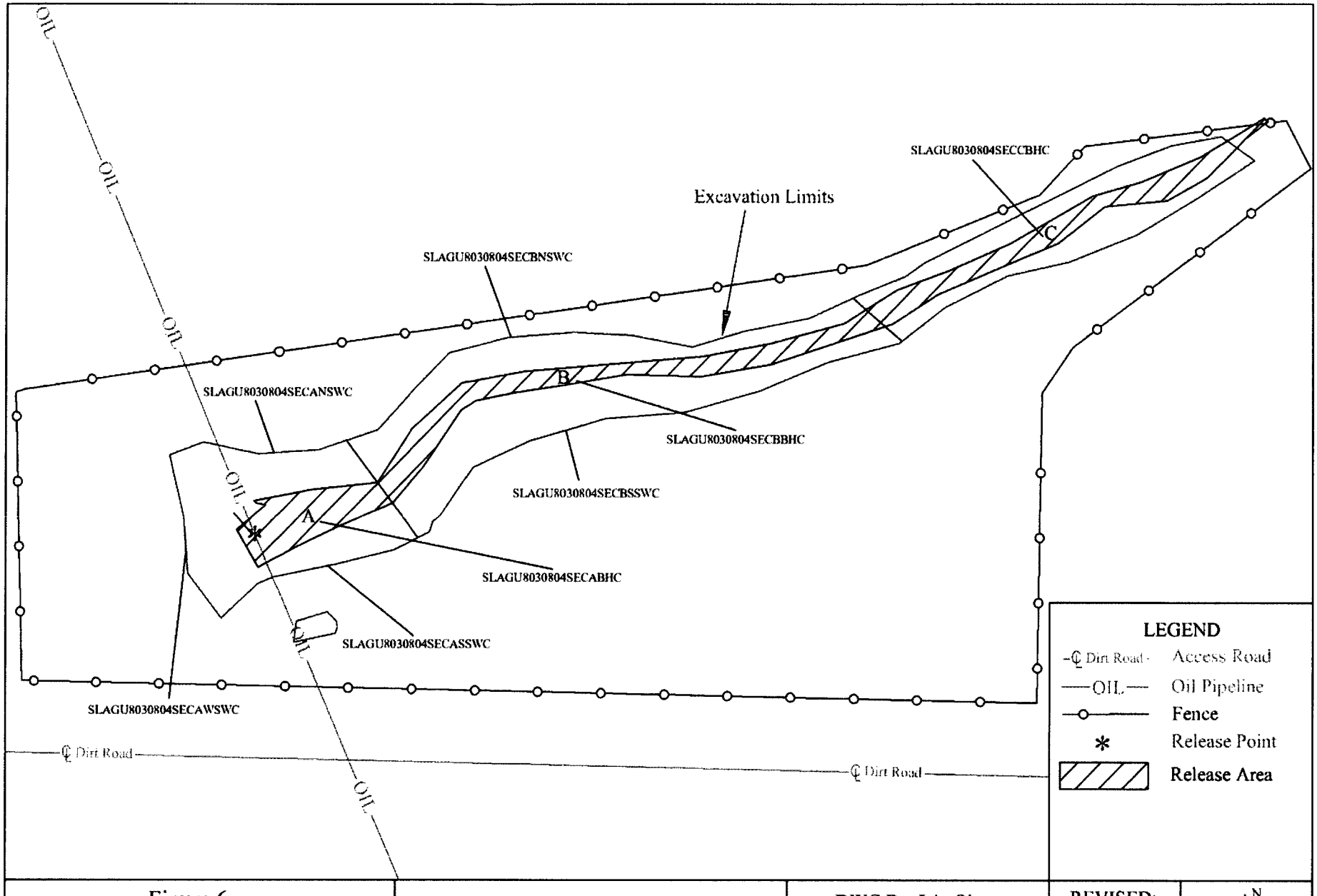

Figure 6 March 8, 2004 Sampling Location Map Plains All American Arrowhead Grayberg 8" Gathering	Lea County, New Mexico SE 1/4 of the SE 1/4, Sec. 2, T22S, R36E N 32° 24' 55.8" W 103° 13' 51.3" Elevation: 3,512 feet amsl	DWG By: Iain Olness May 2004 0 40 80 Feet	REVISED: SHEET 1 of 1	N

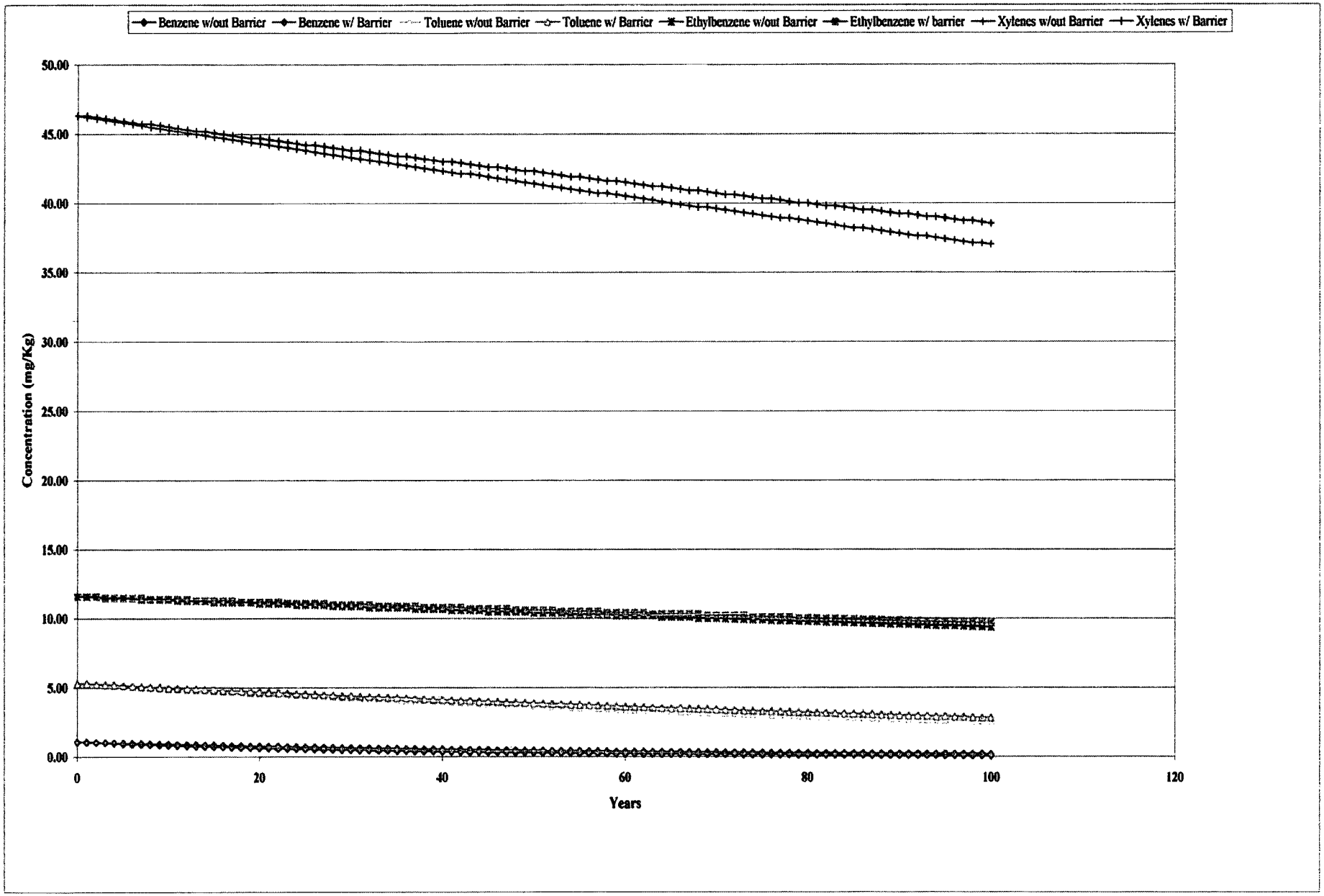

Figure 7: Contaminant Concentrations in the Source Area With and Without an Engineered Barrier.

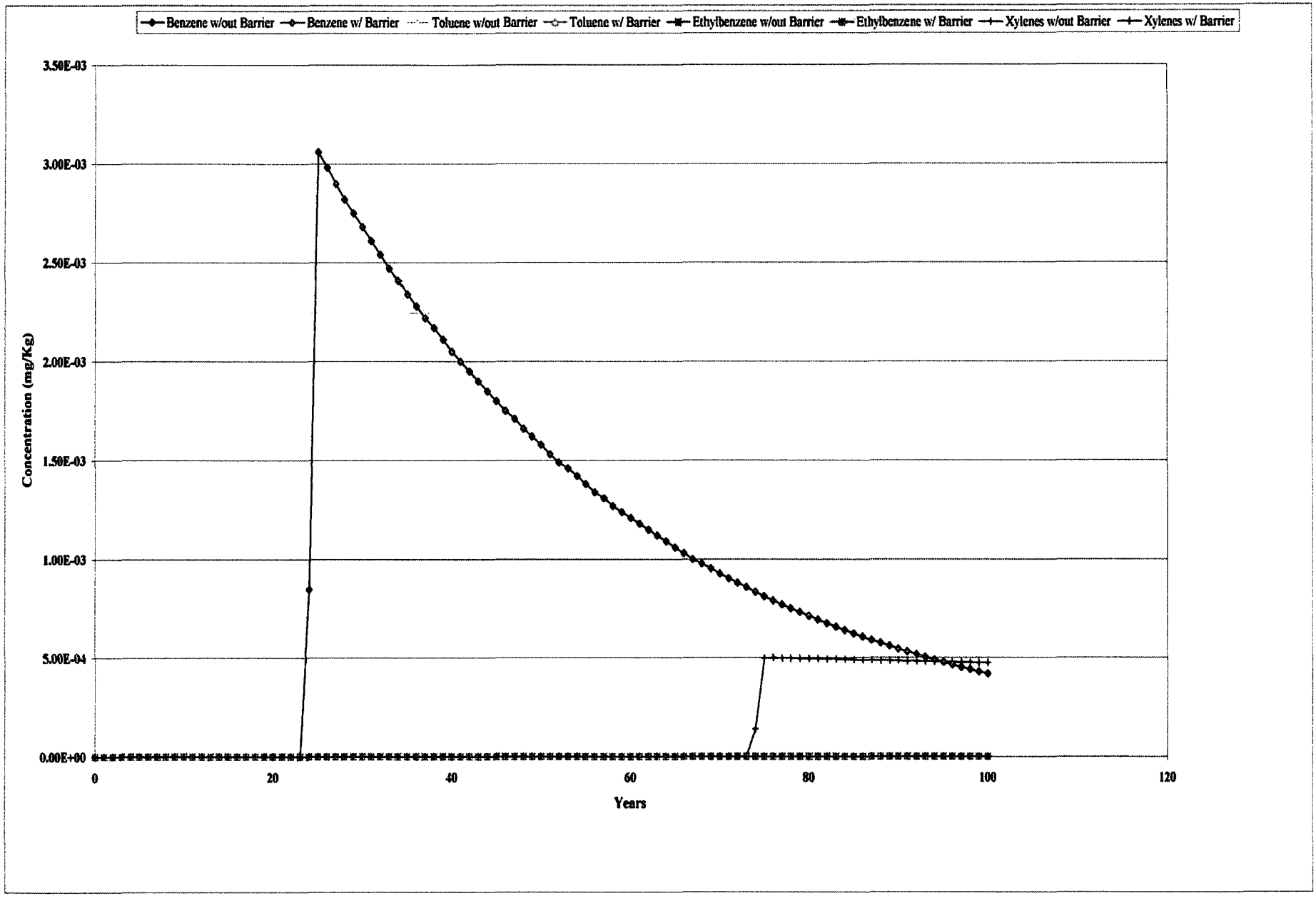

Figure 8: Contaminant Concentrations at the Watertable With and Without an Engineered Barrier.

TABLES

TABLE 1
Summary of Soil Boring Analytical Results

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Sample Name	Borehole	Interval	PID Analysis (ppm)	TPH (mg/Kg)	BTEX (µg/Kg)	Benzene (µg/Kg)
SEAGU891003BH1-2'	BH-1	2	496	**4,844**	4,527.8	24.8
SEAGU891003BH1-5'		5	770	**32,200**	**564,400**	**14,600**
SEAGU891003BH1-10'		10	5.7	60.2	<100	<20
SEAGU891003BH1-15'		15	2.4	<5	<100	<20
SEAGU891003BH2-3'	BH-2	3	2,999	**12,600**	**179,170**	2,240
SEAGU891003BH2-7'		7	2,765	**33,140**	**683,900**	**13,100**
SEAGU891003BH2-15'		15	450	28.8	<100	<20
SEAGU891003BH2-20'		20	200	5.14	<100	<20
SEAGU891003BH2-25'		25	25.4	11.5	<100	<20
SEAGU891003BH2-35'		35	1.7	28.2	<100	<20
SEAGU891103BH3-2'	BH-3	2	998	**18,250**	**194,290**	1,990
SEAGU891103BH3-5'		5	84.7	40.4	<100	<20
SEAGU891103BH3-10		10	48.4	8.06	<100	<20
SEAGU891103BH3-15'		15	50.0	<10	<100	<20
SEAGU891103BH3-20'		20	120	<10	<100	<20
SEAGU891103BH3-25'		25	40.7	10.8	<100	<20
SEAGU891103BH3-30'		30	11.7	<10	<100	<20
SEAGU891103BH4-2'	BH-4	2	973	**26,940**	**327,520**	3,520
SEAGU891103BH4-5'		5	550	**140.96**	93.6	<20
SEAGU891103BH4-10'		10	1,150	**950**	4,118	<20
SEAGU891103BH4-15'		15	92.4	<10	<100	<20
SEAGU891103BH4-20'		20	35.9	<10	<100	<20
SEAGU891103BH4-25'		25	17.3	**151**	<100	<20
SEAGU891203BH5-2'	BH-5	2	685	**28,630**	**338,160**	2,460
SEAGU891203BH5-5'		5	32.4	<10	<100	<20
SEAGU891203BH5-10'		10	40.7	<10	<100	<20
SEAGU891203BH5-15'		15	19.2	<10	<100	<20
SEAGU891203BH6-2'	BH-6	2	1,250	**18,110**	**244,293**	793
SEAGU891203BH6-5'		5	260	234	38.4	<20
SEAGU891203BH6-10'		10	147	**214.37**	205.8	<20
SEAGU891203BH6-15'		15	34.7	<10	<100	<20
SEAGU891203BH6-20'		20	20.2	43.7	<100	<20
SEAGU891203BH7-2'	BH-7	2	19.4	<10	<100	<20
SEAGU891203BH7-5'		5	36.7	<10	<100	<20
SEAGU891203BH7-10'		10	16.3	<10	<100	<20
SEAGU891203BH7-15'		15	10.2	<10	<100	<20
NMOCD Remedial Thresholds				100	50,000	10,000

ppm = parts per million, which is equivalent to milligrams per kilogram
mg/Kg = miiligrams per kilogram, which is equivalent to parts per million
µg/Kg = micrograms per kilogram, which is equivalent to 0.001 milligrams per kilogram
NS = Not Sampled
Results in **Bold** are above the remedial action levels as set by the NMOCD.

TABLE 2

Summary of Excavation Analytical Results

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Sample Name	Date	Sample Type	Depth	Location	PID Analysis (ppm)	TPH (mg/Kg)	BTEX (µg/Kg)	Benzene (µg/Kg)	Chloride (mg/Kg)
AGU-8" Composite A	18-Feb-04	Composite	10	Section A	685	NS	NS	NS	NS
AGU-8" Composite B	18-Feb-04	Composite	5	Section B	967	NS	NS	NS	NS
AGU-8" Composite C	18-Feb-04	Composite	10	Section C	228	NS	NS	NS	NS
AGU-8" Composite D	18-Feb-04	Composite	7	Section D	1,144	NS	NS	NS	NS
AGU-8" Composite E	18-Feb-04	Composite	1.5	Section E	685	NS	NS	NS	NS
SLAGU8022604A25'	26-Feb-04	Composite	25	Section A	NS	**242**	180	<25	156
SLAGU8022604B11'	26-Feb-04	Composite	11	Section B	NS	6.79	<125	<25	NA
SLAGU8022604C23'	26-Feb-04	Composite	23	Section C	NS	18.9	<125	<25	NA
SLAGU8022604D21'	26-Feb-04	Composite	21	Section D	NS	**161**	69.9	<25	NA
SLAGU8022604E9'	26-Feb-04	Composite	9	Section E	NS	<10	<125	<25	NA
SLAGU8030204F	2-Mar-04	Grab	1	Valve	93.2	NS	NS	NS	NS
SLAGU8030204G	2-Mar-04	Grab	1	Sump	84.7	NS	NS	NS	NS
SLAGU8030804SECANSW	8-Mar-04	Composite	3-8	Section A North	4.4	**902**	56.2	<25	NA
SLAGU8030804SECASSW	8-Mar-04	Composite	3-8	Section A South	144	**4,320**	3,974	75.2	NA
SLAGU8030804SECAWSW	8-Mar-04	Composite	3-8	Section A West Sidewall	2.9	14.8	<125	<25	NA
SLAGU8030804SECABHC	8-Mar-04	Composite	11	Section A Bottomhole	601	**11,200**	**64,260**	1,070	NA
SLAGU8030804SECBNSW	8-Mar-04	Composite	3-6	Section B North	7.9	33.7	<125	<25	NA
SLAGU8030804SECBSSW	8-Mar-04	Composite	3-6	Section B South	6.1	7.27	<125	<25	NA
SLAGU8030804SECBBHC	8-Mar-04	Composite	8	Section B Bottomhole	40.4	**654**	223	<25	NA
SLAGU8030804SECCBHC	8-Mar-04	Composite	6	Section C Bottomhole	108	**2,050**	2,642	<25	NA
NMOCD Remedial Thresholds						100	50,000	10,000	250

ppm = parts per million, which is equivalent to milligrams per kilogram
mg/Kg = miiligrams per kilogram, which is equivalent to parts per million
µg/Kg = micrograms per kilogram, which is equivalent to 0.001 milligrams per kilogram
NS = Not Sampled
NA = Not Analyzed
Results in **Bold** are above the remedial action levels as set by the NMOCD.

TABLE 3

Contaminant Concentrations in the Soil at the Source Area

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Time	Benzene		Toluene		Ethylbenzene		Total Xylenes	
	Without Barrier	With Barrier	Without Barrier	With Barrier	Without Barrier	With Barrier	Without Barrier	With Barrier
(years)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/ Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
0	1.07E+00	1.07E+00	5.31E+00	5.31E+00	1.16E+01	1.16E+01	4.63E+01	4.63E+01
1	1.05E+00	1.06E+00	5.29E+00	5.29E+00	1.16E+01	1.16E+01	4.62E+01	4.63E+01
2	1.03E+00	1.04E+00	5.25E+00	5.26E+00	1.16E+01	1.16E+01	4.61E+01	4.62E+01
3	1.00E+00	1.02E+00	5.21E+00	5.22E+00	1.15E+01	1.15E+01	4.60E+01	4.61E+01
4	9.74E-01	1.00E+00	5.17E+00	5.19E+00	1.15E+01	1.15E+01	4.59E+01	4.60E+01
5	9.48E-01	9.87E-01	5.13E+00	5.16E+00	1.15E+01	1.15E+01	4.58E+01	4.59E+01
6	9.24E-01	9.70E-01	5.09E+00	5.12E+00	1.15E+01	1.15E+01	4.57E+01	4.58E+01
7	9.00E-01	9.53E-01	5.05E+00	5.09E+00	1.14E+01	1.15E+01	4.56E+01	4.57E+01
8	8.76E-01	9.36E-01	5.02E+00	5.06E+00	1.14E+01	1.14E+01	4.55E+01	4.57E+01
9	8.53E-01	9.20E-01	4.98E+00	5.03E+00	1.14E+01	1.14E+01	4.54E+01	4.56E+01
10	8.31E-01	9.04E-01	4.94E+00	4.99E+00	1.14E+01	1.14E+01	4.53E+01	4.55E+01
11	8.09E-01	8.88E-01	4.90E+00	4.96E+00	1.13E+01	1.14E+01	4.52E+01	4.54E+01
12	7.88E-01	8.73E-01	4.87E+00	4.93E+00	1.13E+01	1.14E+01	4.51E+01	4.53E+01
13	7.67E-01	8.57E-01	4.83E+00	4.90E+00	1.13E+01	1.13E+01	4.50E+01	4.52E+01
14	7.47E-01	8.42E-01	4.80E+00	4.87E+00	1.13E+01	1.13E+01	4.49E+01	4.52E+01
15	7.28E-01	8.28E-01	4.76E+00	4.84E+00	1.12E+01	1.13E+01	4.48E+01	4.51E+01
16	7.09E-01	8.13E-01	4.72E+00	4.81E+00	1.12E+01	1.13E+01	4.47E+01	4.50E+01
17	6.90E-01	7.99E-01	4.69E+00	4.78E+00	1.12E+01	1.13E+01	4.46E+01	4.49E+01
18	6.72E-01	7.85E-01	4.65E+00	4.75E+00	1.12E+01	1.12E+01	4.45E+01	4.48E+01
19	6.54E-01	7.71E-01	4.62E+00	4.71E+00	1.12E+01	1.12E+01	4.44E+01	4.47E+01
20	6.37E-01	7.58E-01	4.58E+00	4.68E+00	1.11E+01	1.12E+01	4.43E+01	4.47E+01
21	6.21E-01	7.44E-01	4.55E+00	4.65E+00	1.11E+01	1.12E+01	4.42E+01	4.46E+01
22	6.04E-01	7.31E-01	4.51E+00	4.63E+00	1.11E+01	1.12E+01	4.41E+01	4.45E+01
23	5.89E-01	7.18E-01	4.48E+00	4.60E+00	1.11E+01	1.11E+01	4.40E+01	4.44E+01
24	5.73E-01	7.06E-01	4.45E+00	4.57E+00	1.10E+01	1.11E+01	4.39E+01	4.43E+01
25	5.58E-01	6.94E-01	4.41E+00	4.54E+00	1.10E+01	1.11E+01	4.38E+01	4.42E+01
26	5.44E-01	6.81E-01	4.38E+00	4.51E+00	1.10E+01	1.11E+01	4.37E+01	4.42E+01
27	5.29E-01	6.69E-01	4.35E+00	4.48E+00	1.10E+01	1.11E+01	4.36E+01	4.41E+01
28	5.16E-01	6.58E-01	4.32E+00	4.45E+00	1.09E+01	1.10E+01	4.35E+01	4.40E+01
29	5.02E-01	6.46E-01	4.28E+00	4.42E+00	1.09E+01	1.10E+01	4.34E+01	4.39E+01
30	4.89E-01	6.35E-01	4.25E+00	4.39E+00	1.09E+01	1.10E+01	4.33E+01	4.38E+01
31	4.76E-01	6.24E-01	4.22E+00	4.37E+00	1.09E+01	1.10E+01	4.32E+01	4.38E+01
32	4.64E-01	6.13E-01	4.19E+00	4.34E+00	1.08E+01	1.10E+01	4.31E+01	4.37E+01
33	4.52E-01	6.02E-01	4.16E+00	4.31E+00	1.08E+01	1.09E+01	4.30E+01	4.36E+01
34	4.40E-01	5.92E-01	4.12E+00	4.28E+00	1.08E+01	1.09E+01	4.29E+01	4.35E+01
35	4.28E-01	5.81E-01	4.09E+00	4.26E+00	1.08E+01	1.09E+01	4.28E+01	4.34E+01
36	4.17E-01	5.71E-01	4.06E+00	4.23E+00	1.08E+01	1.09E+01	4.27E+01	4.34E+01
37	4.06E-01	5.61E-01	4.03E+00	4.20E+00	1.07E+01	1.09E+01	4.26E+01	4.33E+01
38	3.96E-01	5.51E-01	4.00E+00	4.17E+00	1.07E+01	1.08E+01	4.25E+01	4.32E+01
39	3.85E-01	5.42E-01	3.97E+00	4.15E+00	1.07E+01	1.08E+01	4.24E+01	4.31E+01
40	3.75E-01	5.32E-01	3.94E+00	4.12E+00	1.07E+01	1.08E+01	4.23E+01	4.30E+01
41	3.65E-01	5.23E-01	3.91E+00	4.10E+00	1.06E+01	1.08E+01	4.22E+01	4.30E+01
42	3.56E-01	5.14E-01	3.88E+00	4.07E+00	1.06E+01	1.08E+01	4.21E+01	4.29E+01
43	3.46E-01	5.05E-01	3.85E+00	4.04E+00	1.06E+01	1.07E+01	4.21E+01	4.28E+01
44	3.37E-01	4.96E-01	3.83E+00	4.02E+00	1.06E+01	1.07E+01	4.20E+01	4.27E+01
45	3.29E-01	4.87E-01	3.80E+00	3.99E+00	1.05E+01	1.07E+01	4.19E+01	4.26E+01
46	3.20E-01	4.79E-01	3.77E+00	3.97E+00	1.05E+01	1.07E+01	4.18E+01	4.26E+01
47	3.12E-01	4.70E-01	3.74E+00	3.94E+00	1.05E+01	1.07E+01	4.17E+01	4.25E+01
48	3.03E-01	4.62E-01	3.71E+00	3.92E+00	1.05E+01	1.06E+01	4.16E+01	4.24E+01
49	2.96E-01	4.54E-01	3.68E+00	3.89E+00	1.05E+01	1.06E+01	4.15E+01	4.23E+01
50	2.88E-01	4.46E-01	3.66E+00	3.87E+00	1.04E+01	1.06E+01	4.14E+01	4.23E+01
51	2.80E-01	4.38E-01	3.63E+00	3.84E+00	1.04E+01	1.06E+01	4.13E+01	4.22E+01
52	2.73E-01	4.30E-01	3.60E+00	3.82E+00	1.04E+01	1.06E+01	4.12E+01	4.21E+01
53	2.66E-01	4.23E-01	3.58E+00	3.79E+00	1.04E+01	1.05E+01	4.11E+01	4.20E+01
54	2.59E-01	4.16E-01	3.55E+00	3.77E+00	1.03E+01	1.05E+01	4.10E+01	4.19E+01
55	2.52E-01	4.08E-01	3.52E+00	3.74E+00	1.03E+01	1.05E+01	4.09E+01	4.19E+01

TABLE 3

Contaminant Concentrations in the Soil at the Source Area

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Time	Benzene		Toluene		Ethylbenzene		Total Xylenes	
	Without Barrier	With Barrier	Without Barrier	With Barrier	Without Barrier	With Barrier	Without Barrier	With Barrier
(years)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/ Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
56	2.45E-01	4.01E-01	3.50E+00	3.72E+00	1.03E+01	1.05E+01	4.08E+01	4.18E+01
57	2.39E-01	3.94E-01	3.47E+00	3.70E+00	1.03E+01	1.05E+01	4.07E+01	4.17E+01
58	2.33E-01	3.87E-01	3.44E+00	3.67E+00	1.03E+01	1.04E+01	4.07E+01	4.16E+01
59	2.27E-01	3.80E-01	3.42E+00	3.65E+00	1.02E+01	1.04E+01	4.06E+01	4.16E+01
60	2.21E-01	3.74E-01	3.39E+00	3.63E+00	1.02E+01	1.04E+01	4.05E+01	4.15E+01
61	2.15E-01	3.67E-01	3.37E+00	3.60E+00	1.02E+01	1.04E+01	4.04E+01	4.14E+01
62	2.09E-01	3.61E-01	3.34E+00	3.58E+00	1.02E+01	1.04E+01	4.03E+01	4.13E+01
63	2.04E-01	3.54E-01	3.32E+00	3.56E+00	1.02E+01	1.03E+01	4.02E+01	4.12E+01
64	1.99E-01	3.48E-01	3.29E+00	3.53E+00	1.01E+01	1.03E+01	4.01E+01	4.12E+01
65	1.93E-01	3.42E-01	3.27E+00	3.51E+00	1.01E+01	1.03E+01	4.00E+01	4.11E+01
66	1.88E-01	3.36E-01	3.24E+00	3.49E+00	1.01E+01	1.03E+01	3.99E+01	4.10E+01
67	1.83E-01	3.30E-01	3.22E+00	3.47E+00	1.01E+01	1.03E+01	3.98E+01	4.09E+01
68	1.79E-01	3.25E-01	3.19E+00	3.44E+00	1.00E+01	1.03E+01	3.97E+01	4.09E+01
69	1.74E-01	3.19E-01	3.17E+00	3.42E+00	1.00E+01	1.02E+01	3.97E+01	4.08E+01
70	1.69E-01	3.13E-01	3.15E+00	3.40E+00	1.00E+01	1.02E+01	3.96E+01	4.07E+01
71	1.65E-01	3.08E-01	3.12E+00	3.38E+00	9.98E+00	1.02E+01	3.95E+01	4.06E+01
72	1.61E-01	3.02E-01	3.10E+00	3.36E+00	9.96E+00	1.02E+01	3.94E+01	4.06E+01
73	1.56E-01	2.97E-01	3.08E+00	3.34E+00	9.94E+00	1.02E+01	3.93E+01	4.05E+01
74	1.52E-01	2.92E-01	3.05E+00	3.31E+00	9.92E+00	1.01E+01	3.92E+01	4.04E+01
75	1.48E-01	2.87E-01	3.03E+00	3.29E+00	9.90E+00	1.01E+01	3.91E+01	4.03E+01
76	1.44E-01	2.82E-01	3.01E+00	3.27E+00	9.87E+00	1.01E+01	3.90E+01	4.03E+01
77	1.41E-01	2.77E-01	2.98E+00	3.25E+00	9.85E+00	1.01E+01	3.89E+01	4.02E+01
78	1.37E-01	2.72E-01	2.96E+00	3.23E+00	9.83E+00	1.01E+01	3.89E+01	4.01E+01
79	1.33E-01	2.67E-01	2.94E+00	3.21E+00	9.81E+00	1.00E+01	3.88E+01	4.00E+01
80	1.30E-01	2.63E-01	2.92E+00	3.19E+00	9.79E+00	1.00E+01	3.87E+01	4.00E+01
81	1.27E-01	2.58E-01	2.90E+00	3.17E+00	9.77E+00	1.00E+01	3.86E+01	3.99E+01
82	1.23E-01	2.53E-01	2.87E+00	3.15E+00	9.75E+00	9.99E+00	3.85E+01	3.98E+01
83	1.20E-01	2.49E-01	2.85E+00	3.13E+00	9.73E+00	9.98E+00	3.84E+01	3.98E+01
84	1.17E-01	2.45E-01	2.83E+00	3.11E+00	9.71E+00	9.96E+00	3.83E+01	3.97E+01
85	1.14E-01	2.40E-01	2.81E+00	3.09E+00	9.69E+00	9.94E+00	3.82E+01	3.96E+01
86	1.11E-01	2.36E-01	2.79E+00	3.07E+00	9.67E+00	9.92E+00	3.82E+01	3.95E+01
87	1.08E-01	2.32E-01	2.77E+00	3.05E+00	9.65E+00	9.90E+00	3.81E+01	3.95E+01
88	1.05E-01	2.28E-01	2.75E+00	3.03E+00	9.63E+00	9.89E+00	3.80E+01	3.94E+01
89	1.02E-01	2.24E-01	2.73E+00	3.01E+00	9.60E+00	9.87E+00	3.79E+01	3.93E+01
90	9.97E-02	2.20E-01	2.71E+00	2.99E+00	9.58E+00	9.85E+00	3.78E+01	3.92E+01
91	9.71E-02	2.16E-01	2.69E+00	2.97E+00	9.56E+00	9.83E+00	3.77E+01	3.92E+01
92	9.46E-02	2.12E-01	2.67E+00	2.95E+00	9.54E+00	9.81E+00	3.76E+01	3.91E+01
93	9.21E-02	2.09E-01	2.65E+00	2.93E+00	9.52E+00	9.80E+00	3.76E+01	3.90E+01
94	8.97E-02	2.05E-01	2.63E+00	2.92E+00	9.50E+00	9.78E+00	3.75E+01	3.90E+01
95	8.73E-02	2.01E-01	2.61E+00	2.90E+00	9.48E+00	9.76E+00	3.74E+01	3.89E+01
96	8.50E-02	1.98E-01	2.59E+00	2.88E+00	9.46E+00	9.74E+00	3.73E+01	3.88E+01
97	8.28E-02	1.94E-01	2.57E+00	2.86E+00	9.44E+00	9.72E+00	3.72E+01	3.87E+01
98	8.07E-02	1.91E-01	2.55E+00	2.84E+00	9.42E+00	9.71E+00	3.71E+01	3.87E+01
99	7.85E-02	1.88E-01	2.53E+00	2.82E+00	9.40E+00	9.69E+00	3.71E+01	3.86E+01
100	7.65E-02	1.84E-01	2.51E+00	2.81E+00	9.38E+00	9.67E+00	3.70E+01	3.85E+01

TABLE 4

Contaminant Concentrations in the Soil at the Watertable

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Time (years)	Benzene		Toluene		Ethylbenzene		Total Xylenes	
	Without Barrier (mg/Kg)	With Barrier (mg/Kg)	Without Barrier (mg/Kg)	With Barrier (mg/Kg)	Without Barrier (mg/ Kg)	With Barrier (mg/Kg)	Without Barrier (mg/Kg)	With Barrier (mg/Kg)
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	3.34E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TABLE 4

Contaminant Concentrations in the Soil at the Watertable

Arrowhead Grayburg 8" Gathering - Ref. #2003-00176

Time (years)	Benzene		Toluene		Ethylbenzene		Total Xylenes	
	Without Barrier (mg/Kg)	With Barrier (mg/Kg)	Without Barrier (mg/Kg)	With Barrier (mg/Kg)	Without Barrier (mg/ Kg)	With Barrier (mg/Kg)	Without Barrier (mg/Kg)	With Barrier (mg/Kg)
56	1.34E-03	0.00E+00	9.90E-49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	1.31E-03	0.00E+00	3.74E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	1.27E-03	0.00E+00	2.41E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	1.24E-03	0.00E+00	2.79E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	1.21E-03	0.00E+00	2.77E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	1.18E-03	0.00E+00	2.75E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	1.15E-03	0.00E+00	2.73E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	1.12E-03	0.00E+00	2.71E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	1.09E-03	0.00E+00	2.69E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	1.06E-03	0.00E+00	2.67E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	1.03E-03	0.00E+00	2.65E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	1.00E-03	0.00E+00	2.63E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	9.78E-04	0.00E+00	2.61E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	9.52E-04	0.00E+00	2.59E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	9.27E-04	0.00E+00	2.57E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	9.03E-04	0.00E+00	2.55E-31	0.00E+00	0.00E+00	0.00E+00	7.97E-58	0.00E+00
72	8.80E-04	0.00E+00	2.53E-31	0.00E+00	0.00E+00	0.00E+00	4.29E-27	0.00E+00
73	8.57E-04	0.00E+00	2.52E-31	0.00E+00	0.00E+00	0.00E+00	6.15E-10	0.00E+00
74	8.34E-04	0.00E+00	2.50E-31	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00
75	8.12E-04	0.00E+00	2.48E-31	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00
76	7.91E-04	0.00E+00	2.46E-31	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00
77	7.70E-04	0.00E+00	2.44E-31	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00
78	7.50E-04	0.00E+00	2.42E-31	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00
79	7.31E-04	0.00E+00	2.40E-31	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00
80	7.12E-04	0.00E+00	2.39E-31	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00
81	6.93E-04	0.00E+00	2.37E-31	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00
82	6.75E-04	0.00E+00	2.35E-31	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00
83	6.57E-04	0.00E+00	2.33E-31	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00
84	6.40E-04	0.00E+00	2.32E-31	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00
85	6.23E-04	0.00E+00	2.30E-31	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00
86	6.07E-04	0.00E+00	2.28E-31	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00
87	5.91E-04	0.00E+00	2.26E-31	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00
88	5.76E-04	0.00E+00	2.25E-31	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00
89	5.61E-04	0.00E+00	2.23E-31	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00
90	5.46E-04	0.00E+00	2.21E-31	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00
91	5.32E-04	0.00E+00	2.20E-31	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00
92	5.18E-04	0.00E+00	2.18E-31	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00
93	5.04E-04	0.00E+00	2.16E-31	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00
94	4.91E-04	0.00E+00	2.15E-31	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00
95	4.78E-04	0.00E+00	2.13E-31	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00
96	4.66E-04	0.00E+00	2.12E-31	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00
97	4.53E-04	0.00E+00	2.10E-31	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00
98	4.42E-04	0.00E+00	2.08E-31	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00
99	4.30E-04	0.00E+00	2.07E-31	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00
100	4.19E-04	0.00E+00	2.05E-31	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY FORMS

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 147387 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 07:45

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)	**4540**	mg/Kg	25	<25	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**304**	mg/Kg	25	<25	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/22/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**24.8**	µg/Kg	20	<20	09/22/03	8260b	---	1.3	81.1	98.7	89.6
Ethylbenzene	**580**	µg/Kg	20	<20	09/22/03	8260b	---	0.5	107.6	112.1	104.7
m,p-Xylenes	**2700**	µg/Kg	20	<20	09/22/03	8260b	---	0.2	104.4	110.4	102.9
o-Xylene	**896**	µg/Kg	20	<20	09/22/03	8260b	---	0.4	102.7	112.8	102
Toluene	**327**	µg/Kg	20	<20	09/22/03	8260b	---	3.9	85.4	102.8	89.1

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147387
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH1-2'	**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	94.7	65-115	---
Toluene-d8	8260b	104	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147387 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

AnalySys Inc.

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

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

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

Report#/Lab ID#: 147388 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **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)	**20000**	mg/Kg	125	<125	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**12200**	mg/Kg	50	<50	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/20/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**14600**	µg/Kg	1000	<1000	09/20/03	8260b	---	1.3	81.1	98.7	89.6
Ethylbenzene	**103000**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.5	107.6	112.1	104.7
m,p-Xylenes	**296000**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.2	104.4	110.4	102.9
o-Xylene	**62100**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.4	102.7	112.8	102
Toluene	**88700**	µg/Kg	1000	<1000	09/20/03	8260b	---	3.9	85.4	102.8	89.1

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147388
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH1-5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	**none/diluted**	diluted @ 10X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 25X	D
1,2-Dichloroethane-d4	8260b	**none/diluted**	diluted @ 50X	D
Toluene-d8	8260b	**none/diluted**	diluted @ 50X	D

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

Exceptions Report:

Report #/Lab ID#: 147388 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-5'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

AnalySys Inc.

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

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

Report#/Lab ID#: 147389 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-10'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 08:20

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)	60.2	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891003BH1-10'	**Report#/Lab ID#:** 147389 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	70.9	50-150	---
p-Terphenyl	8015 mod.	105	50-150	---
1,2-Dichloroethane-d4	8260b	85.3	65-115	---
Toluene-d8	8260b	99.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147389 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-10'

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

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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

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Eunice NM 88231

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

Report#/Lab ID#: 147390 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **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	09/24/03	8015 mod.	J,S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891003BH1-15'	**Report#/Lab ID#:** 147390 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	71.2	50-150	---
p-Terphenyl	8015 mod.	70.8	50-150	---
1,2-Dichloroethane-d4	8260b	79.6	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147390 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH1-15'

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
TPH by GC (as diesel)	J	See J-flag discussion above.

Notes: _____

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Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 147391 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-3'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 09:10

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)	**8890**	mg/Kg	50	<50	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**3710**	mg/Kg	25	<25	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/22/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**2240**	µg/Kg	2000	<2000	09/22/03	8260b	---	1.3	81.1	98.7	89.6
Ethylbenzene	**8930**	µg/Kg	2000	<2000	09/22/03	8260b	---	0.5	107.6	112.1	104.7
m,p-Xylenes	**123000**	µg/Kg	2000	<2000	09/22/03	8260b	---	0.2	104.4	110.4	102.9
o-Xylene	**30300**	µg/Kg	2000	<2000	09/22/03	8260b	---	0.4	102.7	112.8	102
Toluene	**14700**	µg/Kg	2000	<2000	09/22/03	8260b	---	3.9	85.4	102.8	89.1

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,

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147391
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH2-3'	**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 @ 10X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 100X	D
Toluene-d8	8260b	none/diluted	diluted @ 100X	D

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

Exceptions Report:

Report #/Lab ID#: 147391 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-3'

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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

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

Report#/Lab ID#: 147392 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-7'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **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)	**23500**	mg/Kg	125	<125	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**9640**	mg/Kg	50	<50	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/22/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**13100**	µg/Kg	5000	<5000	09/22/03	8260b	---	1.3	81.1	98.7	89.6
Ethylbenzene	**123000**	µg/Kg	5000	<5000	09/22/03	8260b	---	0.5	107.6	112.1	104.7
m,p-Xylenes	**376000**	µg/Kg	5000	<5000	09/22/03	8260b	---	0.2	104.4	110.4	102.9
o-Xylene	**79300**	µg/Kg	5000	<5000	09/22/03	8260b	---	0.4	102.7	112.8	102
Toluene	**92500**	µg/Kg	5000	<5000	09/22/03	8260b	---	3.9	85.4	102.8	89.1

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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. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891003BH2-7'	**Report#/Lab ID#:** 147392 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	**none/diluted**	diluted @ 10X	D
p-Terphenyl	8015 mod.	**none/diluted**	diluted @ 25X	D
1,2-Dichloroethane-d4	8260b	**none/diluted**	diluted @ 250X	D
Toluene-d8	8260b	**none/diluted**	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#: 147392 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-7'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147393 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 10:35

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)	**28.8**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147393
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH2-15'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	73.3	50-150	---
p-Terphenyl	8015 mod.	89.9	50-150	---
1,2-Dichloroethane-d4	8260b	86.5	65-115	---
Toluene-d8	8260b	100	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147393 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-15'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

AnalySys Inc.

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

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

Report#/Lab ID#: 147394 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-20'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 11:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**5.14**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	J	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147394
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH2-20'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	73.7	50-150	---
p-Terphenyl	8015 mod.	77	50-150	---
1,2-Dichloroethane-d4	8260b	80.6	65-115	---
Toluene-d8	8260b	99.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147394 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-20'

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

AnalySys inc.

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

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

Report#/Lab ID#: 147395 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-25'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 13:10

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)	**11.5**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	J	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147395
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH2-25'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	70.1	50-150	---
p-Terphenyl	8015 mod.	69.7	50-150	---
1,2-Dichloroethane-d4	8260b	74.9	65-115	---
Toluene-d8	8260b	100	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147395 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-25'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

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Eunice NM 88231

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

Report#/Lab ID#: 147396 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-35'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/10/2003 **Time:** 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	28.2	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147396
Attn: Pat McCasland	**Sample Name:** SEAGU891003BH2-35'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	61.6	50-150	---
p-Terphenyl	8015 mod.	74.6	50-150	---
1,2-Dichloroethane-d4	8260b	83.4	65-115	---
Toluene-d8	8260b	97.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147396 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891003BH2-35'

Sample Temperature/Condition <=6°C

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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 147397 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 07:20

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)	**13500**	mg/Kg	50	<50	09/25/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**4750**	mg/Kg	25	<25	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/20/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**1990**	µg/Kg	1000	<1000	09/20/03	8260b	---	1.3	81.1	98.7	89.6
Ethylbenzene	**25300**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.5	107.6	112.1	104.7
m,p-Xylenes	**117000**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.2	104.4	110.4	102.9
o-Xylene	**28700**	µg/Kg	1000	<1000	09/20/03	8260b	---	0.4	102.7	112.8	102
Toluene	**21300**	µg/Kg	1000	<1000	09/20/03	8260b	---	3.9	85.4	102.8	89.1

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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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147397
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-2'	**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 @ 10X	D
1,2-Dichloroethane-d4	8260b	**none/diluted**	diluted @ 50X	D
Toluene-d8	8260b	**none/diluted**	diluted @ 50X	D

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

Exceptions Report:

Report #/Lab ID#: 147397 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840
(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147398 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **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)	**40.4**	mg/Kg	5	<5	09/25/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147398
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	70.7	50-150	---
p-Terphenyl	8015 mod.	92.8	50-150	---
1,2-Dichloroethane-d4	8260b	75.6	65-115	---
Toluene-d8	8260b	106	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147398 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-5'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

AnalySys Inc.

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Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 147399 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-10
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **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)	**8.06**	mg/Kg	5	<5	09/25/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	J	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147399
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-10	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	79.5	50-150	---
p-Terphenyl	8015 mod.	81	50-150	---
1,2-Dichloroethane-d4	8260b	84.8	65-115	---
Toluene-d8	8260b	103	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147399 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-10

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).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147400 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **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)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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Richard Laster

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147400
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-15'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	71.8	50-150	---
p-Terphenyl	8015 mod.	74	50-150	---
1,2-Dichloroethane-d4	8260b	86.2	65-115	---
Toluene-d8	8260b	110	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147400 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-15'

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

Send Report To:
Company Name Environmental Plus
Address 2100 Ave O
City Eunice State N.M Zip 88231
ATTN: Pat McCasland
Phone 505-394-3481 Fax 505-394-2601

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

4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-00176 Sampler: Bradley Dan

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 418.1	BTEX 8021B	Comments
SEAGU89103BH3-2	9-11-03	7:20	1	X			147397	X	X	
SEAGU89103BH3-5	9-11-03	7:30	1	X			147398	X	X	
SEAGU89103BH3-10	9-11-03	7:50	1	X			147399	X	X	
SEAGU89103BH3-15	9-11-03	8:10	1	X			147400	X	X	
SEAGU89103BH3-20	9-11-03	8:35	1	X			147401	X	X	
SEAGU89103BH3-25	9-11-03	9:00	1	X			147402	X	X	
SEAGU89103BH3-30	9-11-03	10:20	1	X			147403	X	X	
SEAGU89103BH4-2'	9-11-03	11:10	1	X			147404	X	X	
SEAGU89103BH4-5	9-11-03	11:25	1	X			147405	X	X	
SEAGU89103BH4-10	9-11-03	12:00	1	X			147406	X	X	

Analyses Requested (1)
Please attach explanatory information as requi

(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 reporti 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By 4=5.2°C			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Dan	Environmental Plus	9-11-03		Melanie Humphrey	ASI	9/18/03	10:30

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

Send Report To:
Company Name Environmental Plus
Address 2100 Ave O
City Eunice State N.M Zip 88231
ATTN: Pat McCasland
Phone 505 394-3481 Fax 505-394-2601

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-00176 Sampler: Bradley Blair

4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896

Analyses Requested (1)
Please attach explanatory information as requir

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
SEAGU891003BH1-2'	9-10-03	7:45	1	X			147387	X	X	
SEAGU891003BH1-5'	9-10-03	8:00	1	X			147388	X	X	
SEAGU891003BH1-10'	9-10-03	8:20	1	X			147389	X	X	
SEAGU891003BH1-15'	9-10-03	8:45	1	X			147390	X	X	
SEAGU891003BH2-2'	9-10-03	9:10	1	X			147391	X	X	
SEAGU891003BH2-7'	9-10-03	9:20	1	X			147392	X	X	
SEAGU891003BH2-15	9-10-03	10:35	1	X			147393	X	X	
SEAGU891003BH2-20	9-10-03	11:45	1	X			147394	X	X	
SEAGU891003BH2-25	9-10-03	1:10	1	X			147395	X	X	
SEAGU891003BH2-35	9-10-03	3:00	1	X			147396	X	X	

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Sample Relinquished By				Sample Received By T=5.2°C			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Blair	Environmental Plus	9-10-03		Melanie Humphrey	ASI	9/18/03	10:30

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

Exceptions Report:

Report #/Lab ID#: 147422 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH7-15'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 147420 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH7-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 13:10

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	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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.

Exceptions Report:

Report #/Lab ID#: 147419 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH7-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891203BH7-2'	**Report#/Lab ID#:** 147419 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	64.6	50-150	---
p-Terphenyl	8015 mod.	63	50-150	---
1,2-Dichloroethane-d4	8260b	68.5	65-115	---
Toluene-d8	8260b	95.3	50-120	---

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

AnalySys Inc.

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

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

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

Report#/Lab ID#: 147419 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH7-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 13:00

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	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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Respectfully Submitted,

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 147418 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-20'

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

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.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147418
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH6-20'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	61.6	50-150	---
p-Terphenyl	8015 mod.	84.9	50-150	---
1,2-Dichloroethane-d4	8260b	82.6	65-115	---
Toluene-d8	8260b	94.2	50-120	---

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

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147418 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-20'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	43.7	mg/Kg	5	<5	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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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Exceptions Report:

Report #/Lab ID#: 147417 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-15'

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891203BH6-15'	**Report#/Lab ID#:** 147417 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	64.3	50-150	---
p-Terphenyl	8015 mod.	64.5	50-150	---
1,2-Dichloroethane-d4	8260b	75.8	65-115	---
Toluene-d8	8260b	95	50-120	---

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

ANALYSYS INC.

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Eunice NM 88231

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

Report#/Lab ID#: 147417 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 10:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147416
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH6-10'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	64	50-150	---
p-Terphenyl	8015 mod.	128	50-150	---
1,2-Dichloroethane-d4	8260b	85	65-115	---
Toluene-d8	8260b	91.3	50-120	---

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Frank Hernandez
Link Energy Pipeline
P.O. Box 1660
Midland, TX 79702

Project: Arrowhead Greyberg Unit 8
Project Number: 2003-00176
Location: None Given

Lab Order Number: 4C09002

Report Date: 03/15/04

Link Energy Pipeline	Project: Arrowhead Greyberg Unit 8	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/15/04 16:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SLAGU8030804SECANSWC	4C09002-01	Soil	03/08/04 09:05	03/09/04 12:20
SLAGU8030804SECASSWC	4C09002-02	Soil	03/08/04 09:15	03/09/04 12:20
SLAGU8030804SECAWSWC	4C09002-03	Soil	03/08/04 09:25	03/09/04 12:20
SLAGU8030804SECABHC	4C09002-04	Soil	03/08/04 09:40	03/09/04 12:20
SLAGU8030804SECBNSWC	4C09002-05	Soil	03/08/04 09:55	03/09/04 12:20
SLAGU8030804SECBSSWC	4C09002-06	Soil	03/08/04 10:10	03/09/04 12:20
SLAGU8030804SECBBHC	4C09002-07	Soil	03/08/04 10:25	03/09/04 12:20
SLAGU8030804SECCBBHC	4C09002-08	Soil	03/08/04 10:45	03/09/04 12:20

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

Link Energy Pipeline	Project: Arrowhead Greyberg Unit 8	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/15/04 16:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8030804SECANSWC (4C09002-01)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0562**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**36.6**	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**865**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**902**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	
SLAGU8030804SECASSWC (4C09002-02)									
Benzene	**0.0752**	0.0500	mg/kg dry	50	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	**0.277**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.713**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**2.40**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.509**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*129 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**402**	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3920**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4320**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
SLAGU8030804SECAWSWC (4C09002-03)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**14.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**14.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	

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Quality Assurance Review

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Link Energy Pipeline	Project: Arrowhead Greyberg Unit 8	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/15/04 16:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8030804SECABHC (4C09002-04)									
Benzene	**1.07**	0.100	mg/kg dry	100	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	**5.31**	0.100	"	"	"	"	"	"	
Ethylbenzene	**11.6**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**36.8**	0.100	"	"	"	"	"	"	
Xylene (o)	**9.48**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*278 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**2400**	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**8750**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**11200**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*167 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*116 %*	*70-130*		"	"	"	"	
SLAGU8030804SECBNSWC (4C09002-05)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**33.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**33.7**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.0 %*	*70-130*		"	"	"	"	
SLAGU8030804SECBSSWC (4C09002-06)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [7.27]	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.6 %*	*70-130*		"	"	"	"	

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Quality Assurance Review

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

Link Energy Pipeline	Project: Arrowhead Greyberg Unit 8	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/15/04 16:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8030804SECBBHC (4C09002-07)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0347**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.142**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0460**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**52.0**	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**602**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**654**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.8 %*	*70-130*		"	"	"	"	
SLAGU8030804SECCBBHC (4C09002-08)									
Benzene	ND	0.0250	mg/kg dry	25	EC41506	03/12/04	03/12/04	EPA 8021B	
Toluene	**0.167**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.369**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.57**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.536**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**300**	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1750**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2050**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

Quality Assurance Review

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8030804SECANSWC (4C09002-01)									
% Solids	**92.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECASSWC (4C09002-02)									
% Solids	**94.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECAWSWC (4C09002-03)									
% Solids	**94.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECABHC (4C09002-04)									
% Solids	**88.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECBNSWC (4C09002-05)									
% Solids	**91.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECBSSWC (4C09002-06)									
% Solids	**91.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECBBHC (4C09002-07)									
% Solids	**91.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	
SLAGU8030804SECCBBHC (4C09002-08)									
% Solids	**90.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	

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Quality Assurance Review

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

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40903 - Solvent Extraction (GC)										
Blank (EC40903-BLK1)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*38.9*		*mg/kg*	*50.0*		*77.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.4*		*"*	*50.0*		*76.8*	*70-130*			
Blank (EC40903-BLK2)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.4*		*mg/kg*	*50.0*		*80.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.8*		*"*	*50.0*		*85.6*	*70-130*			
LCS (EC40903-BS1)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	396		mg/kg	500		79.2	75-125			
Diesel Range Organics >C12-C35	504		"	500		101	75-125			
Total Hydrocarbon C6-C35	900		"	1000		90.0	75-125			
Surrogate: 1-Chlorooctane	*53.8*		*"*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.2*		*"*	*50.0*		*88.4*	*70-130*			
LCS (EC40903-BS2)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125			
Diesel Range Organics >C12-C35	473	10.0	"	500		94.6	75-125			
Total Hydrocarbon C6-C35	881	10.0	"	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	*54.7*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.6*		*"*	*50.0*		*89.2*	*70-130*			
Calibration Check (EC40903-CCV1)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	443		mg/kg	500		88.6	80-120			
Diesel Range Organics >C12-C35	519		"	500		104	80-120			
Total Hydrocarbon C6-C35	962		"	1000		96.2	80-120			
Surrogate: 1-Chlorooctane	*59.8*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.1*		*"*	*50.0*		*96.2*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40903 - Solvent Extraction (GC)										
Calibration Check (EC40903-CCV2)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	437		mg/kg	500		87.4	80-120			
Diesel Range Organics >C12-C35	527		"	500		105	80-120			
Total Hydrocarbon C6-C35	964		"	1000		96.4	80-120			
Surrogate: 1-Chlorooctane	*59.2*		*"*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.4*		*"*	*50.0*		*96.8*	*70-130*			
Matrix Spike (EC40903-MS1)		**Source: 4C09001-03**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	496		mg/kg	500	ND	99.2	75-125			
Diesel Range Organics >C12-C35	518		"	500	ND	104	75-125			
Total Hydrocarbon C6-C35	1010		"	1000	ND	101	75-125			
Surrogate: 1-Chlorooctane	*55.2*		*"*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.9*		*"*	*50.0*		*99.8*	*70-130*			
Matrix Spike (EC40903-MS2)		**Source: 4C09008-01**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	527	10.0	mg/kg dry	538	ND	98.0	75-125			
Diesel Range Organics >C12-C35	774	10.0	"	538	203	106	75-125			
Total Hydrocarbon C6-C35	1300	10.0	"	1080	203	102	75-125			
Surrogate: 1-Chlorooctane	*57.6*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.2*		*"*	*50.0*		*100*	*70-130*			
Matrix Spike Dup (EC40903-MSD1)		**Source: 4C09001-03**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	476		mg/kg	500	ND	95.2	75-125	4.12	20	
Diesel Range Organics >C12-C35	537		"	500	ND	107	75-125	3.60	20	
Total Hydrocarbon C6-C35	1010		"	1000	ND	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*55.2*		*"*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.9*		*"*	*50.0*		*99.8*	*70-130*			
Matrix Spike Dup (EC40903-MSD2)		**Source: 4C09008-01**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	538	ND	97.0	75-125	0.953	20	
Diesel Range Organics >C12-C35	777	10.0	"	538	203	107	75-125	0.387	20	
Total Hydrocarbon C6-C35	1300	10.0	"	1080	203	102	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*57.0*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.2*		*"*	*50.0*		*100*	*70-130*			

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Quality Assurance Review

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

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41506 - EPA 5030C (GC)										
Blank (EC41506-BLK1)				Prepared & Analyzed: 03/12/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*99.2*		*ug/kg*	*100*		*99.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*101*		"	*100*		*101*	*80-120*			
LCS (EC41506-BS1)				Prepared & Analyzed: 03/12/04						
Benzene	101		ug/kg	100		101	80-120			
Toluene	98.3		"	100		98.3	80-120			
Ethylbenzene	97.9		"	100		97.9	80-120			
Xylene (p/m)	197		"	200		98.5	80-120			
Xylene (o)	98.5		"	100		98.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*108*		"	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*101*		"	*100*		*101*	*80-120*			
Calibration Check (EC41506-CCV1)				Prepared: 03/12/04 Analyzed: 03/15/04						
Benzene	95.3		ug/kg	100		95.3	80-120			
Toluene	93.3		"	100		93.3	80-120			
Ethylbenzene	93.1		"	100		93.1	80-120			
Xylene (p/m)	185		"	200		92.5	80-120			
Xylene (o)	95.8		"	100		95.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*97.5*		"	*100*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.2*		"	*100*		*98.2*	*80-120*			
Matrix Spike (EC41506-MS1)	**Source: 4C11003-03**			Prepared: 03/12/04 Analyzed: 03/15/04						
Benzene	104		ug/kg	100	ND	104	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	101		"	100	ND	101	80-120			
Xylene (p/m)	201		"	200	ND	100	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.5*		"	*100*		*99.5*	*80-120*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41506 - EPA 5030C (GC)										
Matrix Spike Dup (EC41506-MSD1)	**Source: 4C11003-03**			Prepared: 03/12/04		Analyzed: 03/15/04				
Benzene	99.3		ug/kg	100	ND	99.3	80-120	4.62	20	
Toluene	94.6		"	100	ND	94.6	80-120	6.54	20	
Ethylbenzene	95.7		"	100	ND	95.7	80-120	5.39	20	
Xylene (p/m)	192		"	200	ND	96.0	80-120	4.08	20	
Xylene (o)	96.4		"	100	ND	96.4	80-120	5.65	20	
Surrogate: a,a,a-Trifluorotoluene	*93.2*		*"*	*100*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*93.9*		*"*	*100*		*93.9*	*80-120*			

Roland K Tuttle

Quality Assurance Review

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41004 - % Solids										
Blank (EC41004-BLK1)				Prepared: 03/09/04 Analyzed: 03/10/04						
% Solids	100		%							
Duplicate (EC41004-DUP1)		**Source: 4C08007-03**		Prepared: 03/09/04 Analyzed: 03/10/04						
% Solids	90.0		%		90.0			0.00	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Roland K Tuttle

Quality Assurance Review

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

Environmental Lab of Texas, Inc.
12600 West I-20 East Phone: 915-563-1800
Odessa Texas 79763 Fax: 915-563-1713

Project Manager: Frank Hernandez
Company Name: Link Energy
Company Address:
City/State/Zip:
Telephone No: 505-631-3095
Sampler Signature: Morris Burkett

Project Name: ArrowHead Greyberg Unit 8"
Project #: 2003-00176
Project Loc:
PO#:

4C09002

		Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCI	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH8015MGRODRO	Metals	Volatiles	Semivolatiles	BTEX 8021B/5030 ✓	Reactivity	Corrosivity	Ignitiabilty	Chlorides			RUSH TAT	Standard TAT
01	SLAGU8030804SECANSWC	03/08/2004	9:05	1	X									X					X				X								
02	SLAGU8030804SECASSWC	03/08/2004	9:15	1	X									X					X				X								
03	SLAGU8030804SECAWSWC	03/08/2004	9:25	1	X									X					X				X								
04	SLAGU8030804SECABHC	03/08/2004	9:40	1	X									X					X				X								
05	SLAGU8030804SECBNSWC	03/08/2004	9:55	1	X									X					X				X								
06	SLAGU8030804SECBSSWC	03/08/2004	10:10	1	X									X					X				X								
07	SLAGU8030804SECBBHC	03/08/2004	10:25	1	X									X					X				X								
08	SLAGU8030804SECCBHC	03/08/2004	10:45	1	X									X					X				X								

Special Instructions

FAX RESULTS TO PAT McCASLAND ASAP CMMB142@aol.com

Sample Containers Ir Y N
Temperature Upon Request
Laboratory Comments:
Ice 3.5°C.

Relinquished:	Date	Time	Received by:	Date	Time
Morris Burkett	3/9/04	7:00	Cody Miller		
Relinquished:	Date	Time	Received by:	Date	Time
Cody Miller	3/9/04	1220	Rol & K	3-09-04	1220

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Link Energy

Date/Time: 3-9-04 12:20

Order #: 4C09002

Initials: KA

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

AnalySys Inc.

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

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

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

Report#/Lab ID#: 147401 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-20'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 08:35

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	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/19/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.8	83	97.3	95.1
Ethylbenzene	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.7	96.1	111.7	114.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/19/03	8260b	---	9.8	94.4	112.1	112
o-Xylene	<20	µg/Kg	20	<20	09/19/03	8260b	---	11	93.1	112.7	112.1
Toluene	<20	µg/Kg	20	<20	09/19/03	8260b	---	0.7	82.4	94.9	94.2

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147401
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-20'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	70.9	50-150	---
p-Terphenyl	8015 mod.	74.3	50-150	---
1,2-Dichloroethane-d4	8260b	84.3	65-115	---
Toluene-d8	8260b	108	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147401 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-20'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147402 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-25'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**10.8**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/23/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/23/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/23/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147402
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-25'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	71.6	50-150	---
p-Terphenyl	8015 mod.	80.3	50-150	---
1,2-Dichloroethane-d4	8260b	113	65-115	---
Toluene-d8	8260b	97.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147402 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-25'

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

AnalySys Inc.

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

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

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

Report#/Lab ID#: 147403 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-30'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 10:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/23/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/23/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/23/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/23/03	8260b	---	4.8	100.6	100.2	97.8

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147403
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH3-30'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	73.2	50-150	---
p-Terphenyl	8015 mod.	74.9	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	94.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147403 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH3-30'

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

ANALYSYS INC.

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

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

Report#/Lab ID#: 147404 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 11:10

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)	**18600**	mg/Kg	125	<125	09/25/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**8340**	mg/Kg	50	<50	09/25/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/25/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**3520**	µg/Kg	1000	<1000	09/25/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	**59600**	µg/Kg	1000	<1000	09/25/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	**182000**	µg/Kg	1000	<1000	09/25/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**38200**	µg/Kg	1000	<1000	09/25/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	**44200**	µg/Kg	1000	<1000	09/25/03	8260b	---	0.5	87.6	97.4	79.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147404
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH4-2'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 25X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D

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

Exceptions Report:

Report #/Lab ID#: 147404 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147405 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 11:25

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)	**133**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**7.96**	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/25/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/25/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/25/03	8260b	J	2.2	99.1	111.1	97.5
m,p-Xylenes	**71.8**	µg/Kg	20	<20	09/25/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**21.8**	µg/Kg	20	<20	09/25/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/25/03	8260b	---	0.5	87.6	97.4	79.4

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.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147405
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH4-5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	74.9	50-150	---
p-Terphenyl	8015 mod.	126	50-150	---
1,2-Dichloroethane-d4	8260b	82.8	65-115	---
Toluene-d8	8260b	88.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147405 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-5'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Ethylbenzene	J	See J-flag discussion above.

Notes:

AnalySys Inc.

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

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

Report#/Lab ID#: 147406 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-10'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**844**	mg/Kg	5	<5	09/24/03	8015 mod.	S,M	19.1	84.1	96.6	86.9
TPH by GC (as diesel-ext)	---	---	---	---	09/23/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**106**	mg/Kg	5	<5	09/24/03	8015 mod.	---	9.7	82.9	87.1	79.2
Volatile organics-8260b/BTEX	---		---		09/25/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/25/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	**729**	µg/Kg	20	<20	09/25/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	**2570**	µg/Kg	20	<20	09/25/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**670**	µg/Kg	20	<20	09/25/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	**149**	µg/Kg	20	<20	09/25/03	8260b	---	0.5	87.6	97.4	79.4

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	**Project ID:** 2003-00176 **Sample Name:** SEAGU891103BH4-10'	**Report#/Lab ID#:** 147406 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	**203**	50-150	X
1,2-Dichloroethane-d4	8260b	94.3	65-115	---
Toluene-d8	8260b	92.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147406 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-10'

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

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
p-Terphenyl	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices
p-Terphenyl	X	(sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 147407 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 12:40

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	09/25/03	8015 mod.	J	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147407
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH4-15'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	60.5	50-150	---
p-Terphenyl	8015 mod.	60.8	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	88.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147407 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-15'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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

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

Report#/Lab ID#: 147408 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-20'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 13:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147408
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH4-20'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	62.8	50-150	---
p-Terphenyl	8015 mod.	58.3	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	88.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147408 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-20'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 147409 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-25'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/11/2003 **Time:** 14:20

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)	151	mg/Kg	5	<5	09/25/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/25/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147409
Attn: Pat McCasland	**Sample Name:** SEAGU891103BH4-25'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	63.5	50-150	---
p-Terphenyl	8015 mod.	120	50-150	---
1,2-Dichloroethane-d4	8260b	101	65-115	---
Toluene-d8	8260b	89	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147409 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891103BH4-25'

Sample Temperature/Condition <=6°C

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

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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

_____

_____

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

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

Report#/Lab ID#: 147410 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **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)	**22200**	mg/Kg	125	<125	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**6430**	mg/Kg	25	<25	09/26/03	8015 mod.	---	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/25/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**2460**	µg/Kg	1000	<1000	09/25/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	**61900**	µg/Kg	1000	<1000	09/25/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	**192000**	µg/Kg	1000	<1000	09/25/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**41500**	µg/Kg	1000	<1000	09/25/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	**40300**	µg/Kg	1000	<1000	09/25/03	8260b	---	0.5	87.6	97.4	79.4

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.

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00176 **Sample Name:** SEAGU891203BH5-2'	**Report#/Lab ID#:** 147410 **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 @ 25X	D
1,2-Dichloroethane-d4	8260b	**none/diluted**	diluted @ 50X	D
Toluene-d8	8260b	**none/diluted**	diluted @ 50X	D

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

Exceptions Report:

Report #/Lab ID#: 147410 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

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Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 147411 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **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	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147411
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH5-5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	66.3	50-150	---
p-Terphenyl	8015 mod.	69.3	50-150	---
1,2-Dichloroethane-d4	8260b	99.7	65-115	---
Toluene-d8	8260b	89.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147411 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-5'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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

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

Report#/Lab ID#: 147412 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-10'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 07:45

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	09/26/03	8015 mod.	J	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147412
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH5-10'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	60.8	50-150	---
p-Terphenyl	8015 mod.	57.2	50-150	---
1,2-Dichloroethane-d4	8260b	92.7	65-115	---
Toluene-d8	8260b	92.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147412 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-10'

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).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

AnalySys Inc.

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Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 147413 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-15'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **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)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147413
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH5-15'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	61.5	50-150	---
p-Terphenyl	8015 mod.	55.7	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	88.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147413 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH5-15'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 147414 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-2'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	**14100**	mg/Kg	50	<50	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**4010**	mg/Kg	25	<25	09/26/03	8015 mod.	---	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/25/03	8260b(5030/5035)	---	---	---	---	---
Benzene	**793**	µg/Kg	100	<100	09/25/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	**45700**	µg/Kg	1000	<1000	09/25/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	**143000**	µg/Kg	1000	<1000	09/25/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**31800**	µg/Kg	1000	<1000	09/25/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	**23000**	µg/Kg	100	<100	09/25/03	8260b	---	0.5	87.6	97.4	79.4

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

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147414
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH6-2'	**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 @ 10X	D
1,2-Dichloroethane-d4	8260b	113	65-115	---
Toluene-d8	8260b	108	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147414 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
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: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 147415 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-5'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **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)	234	mg/Kg	5	<5	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	09/26/03	8015 mod.	J	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	3.9	95.2	92.7	92.2
Ethylbenzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	99.1	105.1	99.9
m,p-Xylenes	38.4	µg/Kg	20	<20	09/24/03	8260b	---	4.7	100.4	106.1	100.4
o-Xylene	<20	µg/Kg	20	<20	09/24/03	8260b	J	3.5	102.2	106.2	103.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	4.8	100.6	100.2	97.8

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

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00176	**Report#/Lab ID#:** 147415
Attn: Pat McCasland	**Sample Name:** SEAGU891203BH6-5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	62.4	50-150	---
p-Terphenyl	8015 mod.	137	50-150	---
1,2-Dichloroethane-d4	8260b	99.2	65-115	---
Toluene-d8	8260b	87.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 147415 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-5'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.
o-Xylene	J	See J-flag discussion above.

Notes: _____

AnalySys Inc.

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

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

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

Report#/Lab ID#: 147416 **Report Date:** 09/30/03
Project ID: 2003-00176
Sample Name: SEAGU891203BH6-10'
Sample Matrix: soil
Date Received: 09/18/2003 **Time:** 10:30
Date Sampled: 09/12/2003 **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)	**206**	mg/Kg	5	<5	09/26/03	8015 mod.	---	5.1	78	94.8	82
TPH by GC (as diesel-ext)	---	---	---	---	09/25/03	3570m	---	---	---	---	---
TPH by GC (as gasoline)	**8.37**	mg/Kg	5	<5	09/26/03	8015 mod.	---	1.7	71.7	86.9	70.7
Volatile organics-8260b/BTEX	---		---		09/24/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/24/03	8260b	---	1.4	84.9	94.8	78.4
Ethylbenzene	**33.3**	µg/Kg	20	<20	09/24/03	8260b	---	2.2	99.1	111.1	97.5
m,p-Xylenes	**134**	µg/Kg	20	<20	09/24/03	8260b	---	0.9	99.1	109.6	94.5
o-Xylene	**38.5**	µg/Kg	20	<20	09/24/03	8260b	---	1.5	97.5	111.2	94.3
Toluene	<20	µg/Kg	20	<20	09/24/03	8260b	---	0.5	87.6	97.4	79.4

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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Send Reports To: [redacted] Bill [redacted] (if different): [redacted]

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

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

4221 Freidrich Lane, Suite 1[illegible] Austin, TX 7874
(512) 444-5896

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

Project Name/PO#: 2003.00176 Sampler: Bradley Blea

Analyses Requested (1)
Please attach explanatory information as require

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
SEAGU891103BH4-15	9-11-03	12:40	1	X			147407	X	X	
SEAGU891103BH4-20	9-11-03	1:15	1	X			147408	X	X	
SEAGU891103BH4-25	9-11-03	2:40	1	X			147409	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 reportin 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By T=5.2°C			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Blea		9-17-03	3:30	Melanie Humphrey	ASI	9/18/03	10:30

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

Send Report To:
Company Name Environmental Plus
Address 2100 Ave O
City Eunice State N.M Zip 88231
ATTN: Pat McCasland
Phone 505-394-3481 Fax 505-394-2601

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-00176 Sampler: Bradley Blair

ASI Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896

Analyses Requested (1)
Please attach explanatory information as requir

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
SEAGU891203BH5-2'	9-12-03	7:15	1	X			147410	X	X	
SEAGU891203BH5-5'	9-12-03	7:30	1	X			147411	X	X	
SEAGU891203BH5-10'	9-12-03	7:45	1	X			147412	X	X	
SEAGU891203BH5-15'	9-12-03	8:10	1	X			147413	X	X	
SEAGU891203BH6-2'	9-12-03	8:30	1	X			147414	X	X	
SEAGU891203BH6-5'	9-12-03	8:45	1	X			147415	X	X	
SEAGU891203BH6-10'	9-12-03	9:25	1	X			147416	X	X	
SEAGU891203BH6-15'	9-12-03	10:20	1	X			147417	X	X	
SEAGU891203BH6-20'	9-12-03	11:00	1	X			147418	X	X	
SEAGU891203BH7-2'	9-12-03	1:00	1	X			147419	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 reporti 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By T=5.2°C			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Blair	Environmental Plus	9-12-03		Melanie Humphrey	ASI	9/18/03	10:30

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

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

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-00176 Sampler: [signature]

Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896

Analyses Requested (1)
Please attach explanatory information as requir

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
SEAGU89203BH7-5	9-12-03	1:10	1	X			147420	X	X	
SEAGU89203BH7-10	9-12-03	1:30	1	X			147421	X	X	
SEAGU89203BH7-15	9-12-03	2:35	1	X			147422	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 report 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 Pollutant ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
[signature]		9-17-03	3:30	[signature]	ASI	9/18/03	10.30

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Frank Hernandez
Link Energy Pipeline
P.O. Box 1660
Midland, TX 79702

Project: AGU 8 inch #4
Project Number: 2003-00176
Location: None Given

Lab Order Number: 4B27003

Report Date: 03/01/04

Link Energy Pipeline	Project: AGU 8 inch #4	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/01/04 16:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SLAGU8022604A25'	4B27003-01	Soil	02/26/04 09:35	02/27/04 10:50
SLAGU8022604B11'	4B27003-02	Soil	02/26/04 09:45	02/27/04 10:50
SLAGU8022604C23'	4B27003-03	Soil	02/26/04 13:05	02/27/04 10:50
SLAGU8022604D21'	4B27003-04	Soil	02/26/04 14:12	02/27/04 10:50
SLAGU8022604E9'	4B27003-05	Soil	02/26/04 14:35	02/27/04 10:50

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

Link Energy Pipeline	Project: AGU 8 inch #4	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/01/04 16:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8022604A25' (4B27003-01)									
Benzene	ND	0.0250	mg/kg dry	25	EC40119	02/27/04	02/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0330**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.124**	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0229]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**25.0**	10.0	mg/kg dry	1	EB42707	02/27/04	02/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	**217**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**242**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
SLAGU8022604B11' (4B27003-02)									
Benzene	ND	0.0250	mg/kg dry	25	EC40119	02/27/04	02/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB42707	02/27/04	02/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.79]	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.8 %*	*70-130*		"	"	"	"	
SLAGU8022604C23' (4B27003-03)									
Benzene	ND	0.0250	mg/kg dry	25	EC40119	02/27/04	02/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB42707	02/27/04	02/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	**18.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**18.9**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

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

Link Energy Pipeline	Project: AGU 8 inch #4	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/01/04 16:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8022604D21' (4B27003-04)									
Benzene	ND	0.0250	mg/kg dry	25	EC40119	02/27/04	02/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0171]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0528**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**15.9**	10.0	mg/kg dry	1	EB42707	02/27/04	02/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	**145**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**161**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.6 %*	*70-130*		"	"	"	"	
SLAGU8022604E9' (4B27003-05)									
Benzene	ND	0.0250	mg/kg dry	25	EC40119	02/27/04	02/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB42707	02/27/04	02/27/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.4 %*	*70-130*		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

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

Link Energy Pipeline	Project: AGU 8 inch #4	Fax: (432) 682-9719
P.O. Box 1660	Project Number: 2003-00176	**Reported:**
Midland TX, 79702	Project Manager: Frank Hernandez	03/01/04 16:16

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLAGU8022604A25' (4B27003-01)									
Chloride	**156**	20.0	mg/kg Wet	2	EB42708	02/27/04	02/27/04	SW 846 9253	
% Solids	**96.0**		%	1	EC40108	03/01/04	03/01/04	% calculation	
SLAGU8022604B11' (4B27003-02)									
% Solids	**96.0**		%	1	EC40108	03/01/04	03/01/04	% calculation	
SLAGU8022604C23' (4B27003-03)									
% Solids	**96.0**		%	1	EC40108	03/01/04	03/01/04	% calculation	
SLAGU8022604D21' (4B27003-04)									
% Solids	**96.0**		%	1	EC40108	03/01/04	03/01/04	% calculation	
SLAGU8022604E9' (4B27003-05)									
% Solids	**95.0**		%	1	EC40108	03/01/04	03/01/04	% calculation	

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB42707 - Solvent Extraction (GC)										
Blank (EB42707-BLK1)				Prepared & Analyzed: 02/27/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.0*		*mg/kg*	*50.0*		*80.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.1*		*"*	*50.0*		*84.2*	*70-130*			
LCS (EB42707-BS1)				Prepared & Analyzed: 02/27/04						
Gasoline Range Organics C6-C12	421	10.0	mg/kg wet	500		84.2	75-125			
Diesel Range Organics >C12-C35	493	10.0	"	500		98.6	75-125			
Total Hydrocarbon C6-C35	914	10.0	"	1000		91.4	75-125			
Surrogate: 1-Chlorooctane	*45.7*		*mg/kg*	*50.0*		*91.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.6*		*"*	*50.0*		*83.2*	*70-130*			
Calibration Check (EB42707-CCV1)				Prepared & Analyzed: 02/27/04						
Gasoline Range Organics C6-C12	468		mg/kg	500		93.6	80-120			
Diesel Range Organics >C12-C35	512		"	500		102	80-120			
Total Hydrocarbon C6-C35	980		"	1000		98.0	80-120			
Surrogate: 1-Chlorooctane	*56.9*		*"*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.4*		*"*	*50.0*		*107*	*70-130*			
Matrix Spike (EB42707-MS1)	**Source: 4B25003-17**			Prepared & Analyzed: 02/27/04						
Gasoline Range Organics C6-C12	543	10.0	mg/kg dry	549	ND	98.9	75-125			
Diesel Range Organics >C12-C35	620	10.0	"	549	80.9	98.2	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1100	80.9	98.1	75-125			
Surrogate: 1-Chlorooctane	*59.0*		*mg/kg*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.8*		*"*	*50.0*		*112*	*70-130*			
Matrix Spike Dup (EB42707-MSD1)	**Source: 4B25003-17**			Prepared & Analyzed: 02/27/04						
Gasoline Range Organics C6-C12	515	10.0	mg/kg dry	549	ND	93.8	75-125	5.29	20	
Diesel Range Organics >C12-C35	601	10.0	"	549	80.9	94.7	75-125	3.11	20	
Total Hydrocarbon C6-C35	1120	10.0	"	1100	80.9	94.5	75-125	3.51	20	
Surrogate: 1-Chlorooctane	*61.4*		*mg/kg*	*50.0*		*123*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.5*		*"*	*50.0*		*109*	*70-130*			

Environmental Lab of Texas

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Quality Assurance Review

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

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40119 - EPA 5030C (GC)										
Blank (EC40119-BLK1)				Prepared & Analyzed: 02/27/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*91.6*		*ug/kg*	*100*		*91.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.3*		*"*	*100*		*94.3*	*80-120*			
LCS (EC40119-BS1)				Prepared & Analyzed: 02/27/04						
Benzene	91.7		ug/kg	100		91.7	80-120			
Toluene	90.1		"	100		90.1	80-120			
Ethylbenzene	90.7		"	100		90.7	80-120			
Xylene (p/m)	178		"	200		89.0	80-120			
Xylene (o)	87.7		"	100		87.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	*95.0*		*"*	*100*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*93.2*		*"*	*100*		*93.2*	*80-120*			
Calibration Check (EC40119-CCV1)				Prepared & Analyzed: 02/27/04						
Benzene	93.9		ug/kg	100		93.9	80-120			
Toluene	90.6		"	100		90.6	80-120			
Ethylbenzene	88.8		"	100		88.8	80-120			
Xylene (p/m)	174		"	200		87.0	80-120			
Xylene (o)	89.8		"	100		89.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*93.7*		*"*	*100*		*93.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*93.9*		*"*	*100*		*93.9*	*80-120*			
Matrix Spike (EC40119-MS1)	**Source: 4B27003-05**			Prepared & Analyzed: 02/27/04						
Benzene	96.1		ug/kg	100	ND	96.1	80-120			
Toluene	93.5		"	100	ND	93.5	80-120			
Ethylbenzene	93.1		"	100	ND	93.1	80-120			
Xylene (p/m)	183		"	200	ND	91.5	80-120			
Xylene (o)	93.5		"	100	ND	93.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*96.0*		*"*	*100*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*80-120*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40119 - EPA 5030C (GC)										
Matrix Spike Dup (EC40119-MSD1)	**Source: 4B27003-05**			Prepared & Analyzed: 02/27/04						
Benzene	92.9		ug/kg	100	ND	92.9	80-120	3.39	20	
Toluene	90.2		"	100	ND	90.2	80-120	3.59	20	
Ethylbenzene	90.3		"	100	ND	90.3	80-120	3.05	20	
Xylene (p/m)	178		"	200	ND	89.0	80-120	2.77	20	
Xylene (o)	91.9		"	100	ND	91.9	80-120	1.73	20	
Surrogate: a,a,a-Trifluorotoluene	*82.2*		*"*	*100*		*82.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.6*		*"*	*100*		*99.6*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB42708 - General Preparation (WetChem)										
Blank (EB42708-BLK1)				Prepared & Analyzed: 02/27/04						
Chloride	ND	20.0	mg/kg Wet							
Calibration Check (EB42708-CCV1)				Prepared & Analyzed: 02/27/04						
Chloride	5100		mg/kg Wet	5000		102	80-120			
Matrix Spike (EB42708-MS1)		Source: 4B27003-01		Prepared & Analyzed: 02/27/04						
Chloride	610	20.0	mg/kg Wet	500	156	90.8	80-120			
Matrix Spike Dup (EB42708-MSD1)		Source: 4B27003-01		Prepared & Analyzed: 02/27/04						
Chloride	610	20.0	mg/kg Wet	500	156	90.8	80-120	0.00	20	
Batch EC40108 - % Solids										
Blank (EC40108-BLK1)				Prepared & Analyzed: 03/01/04						
% Solids	100		%							
Duplicate (EC40108-DUP1)		Source: 4B25003-12		Prepared & Analyzed: 03/01/04						
% Solids	87.0		%		87.0			0.00	20	

Environmental Lab of Texas

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Quality Assurance Review

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

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Environmental Lab of Texas, Inc.

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

Project Manager: Frank Hernandez
Company Name: Link Energy
Company Address:
City/State/Zip:
Telephone No: 505-631-3095
Sampler Signature:

Project Name: AGU 8" #4
Project #: 2003-00176
Project Loc:
PO#:

402 glass

482-7003		Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCI	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Analyze For: TCLP / TOTAL: TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH8015MGRODRO	Metals	Volatiles	Semivolatiles	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiabilty	Chlorides			RUSH TAT	Standard TAT
-01	SLAGU8022604A25'	02/26/2004	9:35	1	X									X					X				X				X				X
-02	SLAGU8022604B11'	02/26/2004	9:45	1	X									X					X				X								X
-03	SLAGU8022604C23'	02/26/2004	1:05	1	X									X					X				X								X
-04	SLAGU8022604D21'	02/26/2004	2:12	1	X									X					X				X								X
-05	SLAGU8022604E9'	02/26/2004	2:35	1	X									X					X				X								X

Special Instructions

FAX RESULTS TO PAT McCASLAND ASAP

Sample Containers Ir Y N
Temperature Upon Request
Laboratory Comments:

-1.5°C

Relinquished:	Date	Time	Received by:	Date	Time
	2/26/04			2/27/04 MRE	8:20
Relinquished:	Date 2/27/04 MRE	Time 10:50	Received by:	Date 2-27-04	Time 1050

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Link Energy

Date/Time: 02-27-04 @ 1140

Order #: 4B27003

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-1.5 C
Shipping container/cooler in good condition?	Yes	No	N/A
Custody Seals intact on shipping container/cooler?	Yes	No	(~~Not present~~)
Custody Seals intact on sample bottles?	Yes	No	(~~Not present~~)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

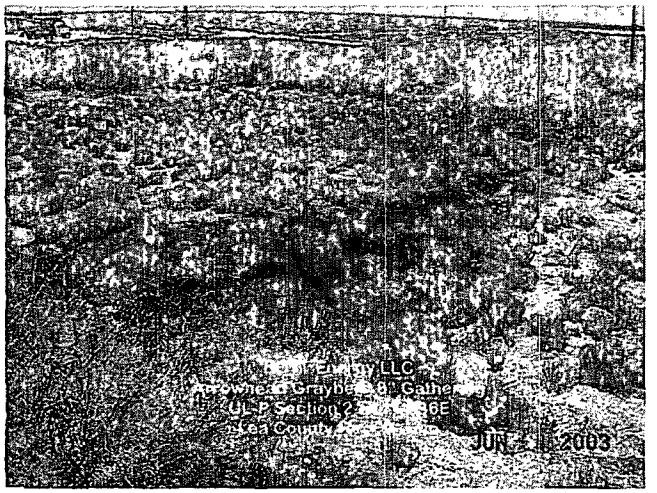
_____

_____

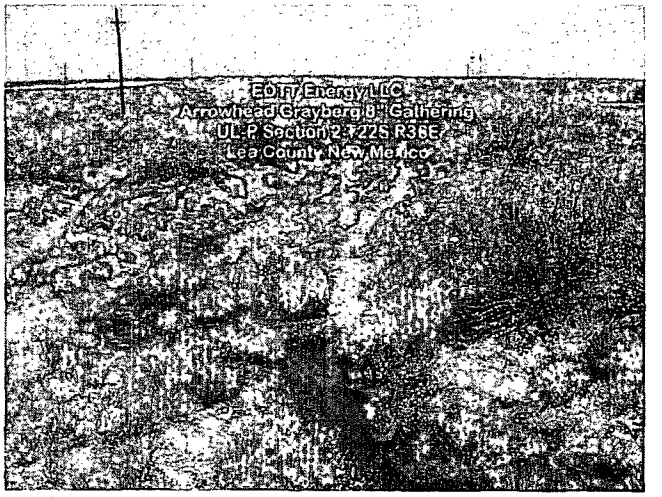
_____

APPENDIX B

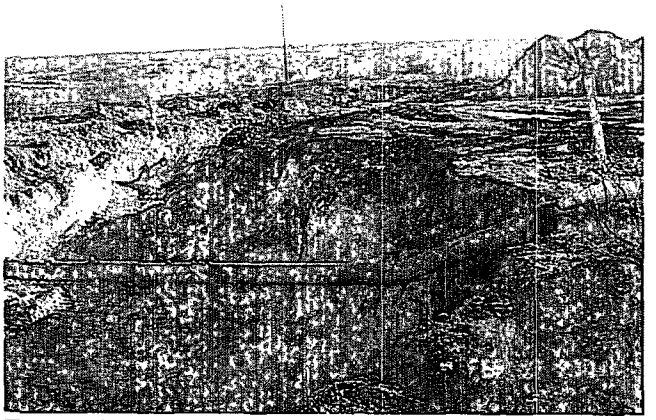
SITE PHOTOGRAPHS

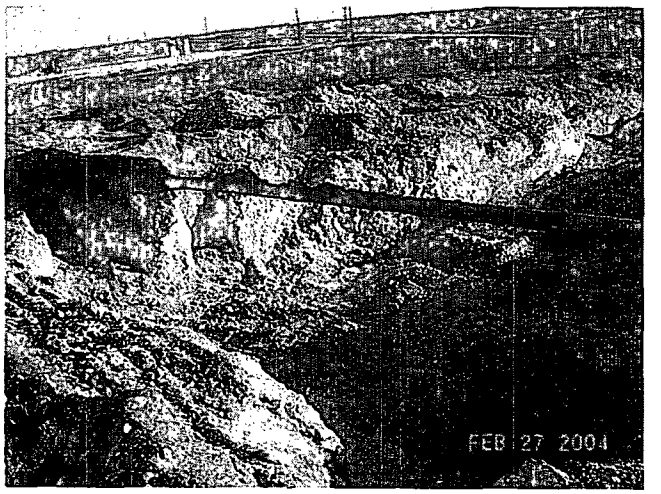


Leak origin, looking east-southeast.

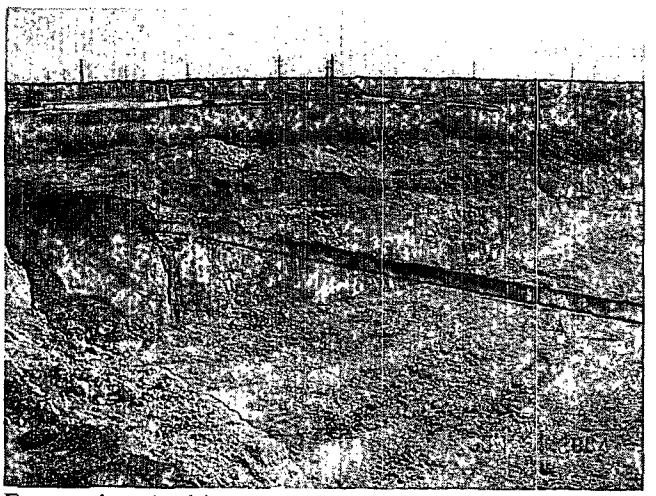


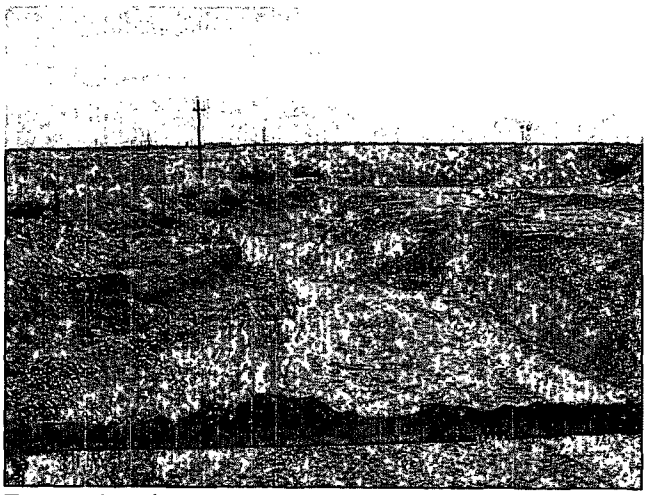
Leak origin, looking east-northeast.


Excavation, looking east-northeast from the leak origin.



Excavation, looking northerly from the leak origin.


Excavation, looking northeast from the leak origin.


Excavation, looking east-northeast from the leak origin.

APPENDIX C

SITE INFORMATION AND METRICS FORM

AND

INITIAL C-141

eottenergy	Site Information and Metrics	Incident Date: EOTT Energy LLC	NMOCD Notified: 6-30-03 @ 2:00 PM

SITE: Arrowhead Grayburg 8" Gathering	Assigned Site Reference #:
Company: EOTT Energy LLC	
Street Address: PO Box 1660	
Mailing Address: 5805 East Highway 80	
City, State, Zip: Midland, Texas 79702	
Representative: Frank Hernandez	
Representative Telephone: 505.631.3095	
Telephone:	
Fluid volume released (bbls): 20 bbls	Recovered (bbls): 0 bbls
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: Arrowhead Grayburg 8" Gathering	
Source of contamination: 8" Steel Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico	
LSP Dimensions ~309' x 2.5'	
LSP Area: 1,763 sqft ft^2	
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32 24' 55.774"N	
Longitude: 103 13' 51.267"W	
Elevation above mean sea level: 3,510 'amsl	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SE¼ of the SE¼	Unit Letter: P
Location- Section: 2	
Location- Township: T22S	
Location- Range: R36E	
Surface water body within 1000 ' radius of site: none	
Surface water body within 1000 ' radius of site:	
Domestic water wells within 1000' radius of site: none	
Domestic water wells within 1000' radius of site:	
Agricultural water wells within 1000' radius of site: none	
Agricultural water wells within 1000' radius of site:	
Public water supply wells within 1000' radius of site: none	
Public water supply wells within 1000' radius of site:	
Depth from land surface to ground water (DG) ~137'bgs	
Depth of contamination (DC) – ?	
Depth to ground water (DG – DC = DtGW) -	

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 = 0	*Wellhead Protection Area Score= 0*	*Surface Water Score= 0*

Site Rank (1+2+3) = 0

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	10 ppm	10 ppm	**10 ppm**
BTEX[1]	50 ppm	50 ppm	**50 ppm**
TPH	100 ppm	1000 ppm	**5000 ppm**

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

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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 LLC	**Frank Hernandez**
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 505.631.3095
Facility Name Arrowhead Grayburg 8" Gathering	Facility Type 8" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
State of New Mexico		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 24' 55.774"N Lon. 103 13' 51.267"W
2	2	T22S	R36E					

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 20 barrels	Volume Recovered 0 barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence EOTT Energy LLC	Date and Hour of Discovery 6-30-03 @ 12:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? Sylvia Dickie	
By Whom? Pat McCasland, EPI	Date and Hour 6-30-03 @ 2:00 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
The leak was caused by internal/external corrosion. A line repair clamp was installed. The line will be tested and replaced if necessary.

Describe Area Affected and Cleanup Action Taken.*
Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

Signature: Frank Hernandez	**OIL CONSERVATION DIVISION**	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: July 1, 2003 Phone: 505.631.3095	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

APPENDIX D

RISK/EXPOSURE ASSESSMENT INPUT DATA

FATE AND TRANSPORT MODEL INPUT SUMMARY FILE - NO BARRIER

Model Description:
Unsaturated zone model linked with saturated zone model

Title:
AGU-8" Run □

Simulation time (years). 100

Vadose Zone Source Parameters

Thickness of contamination (m)	4.6
Depth to top of contamination (m).	3.4
Length of source (m)	93.
Width of source (m).	4.6

Unsaturated Zone Properties

Total Porosity in vadose zone (cm3/cm3)	0.30
Residual water content (cm3/cm3)	5.00E-02
Fraction organic carbon (g oc/g soil).	2.00E-03
Soil bulk density (g/cm3).	1.7
Infiltration Rate (cm/yr).	36.
Saturated conductivity (m/d)	5.0
Van Genuchten's N.	2.7
Thickness of vadose zone (m)	38.

Aquifer Properties

Effective porosity (cm3/cm3)	0.30
Fraction organic carbon (g oc/g soil).	2.00E-03
Hydraulic conductivity (m/d)	5.0
Soil bulk density (g/cm3).	1.7
Hydraulic gradient (m/m)	1.00E-03

***Longitudinal dispersivity (m). code calculated
***Transverse dispersivity (m). code calculated
***Vertical dispersivity (m). code calculated

Receptor Well Location

Distance downgradient (m).	0.10
Distance cross-gradient (m).	0.10
Depth to top of well screen (m).	38.
Depth to bottom of well screen(m).	44.
Number of points used to calc. conc.	5

TPH Data for Unsaturated Zone Source

Concentration of TPH in soil (mg/kg)	1.12E+04
Molecular weight of TPH (g/mol).	1.00E+02

CHEMICAL DATA FOR: Benzene

Diffusion coefficient in air (cm2/s)	8.80E-02
Diffusion coefficient in water (cm2/s)	9.80E-06
Solubility (mg/l)	1.75E+03
Vapor pressure (mmHg)	95.
KOC (L/kg).	59.
Henry's Law coefficient (-).	0.23
Molecular weight (g/mol).	78.
Degradation rate, saturated zone (1/d).	9.60E-04
Degradation rate, vadose zone (1/d).	9.60E-04

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 1.1

CHEMICAL DATA FOR: Ethylbenzene

Diffusion coefficient in air (cm2/s)	7.50E-02
Diffusion coefficient in water (cm2/s)	7.80E-06
Solubility (mg/l)	1.69E+02
Vapor pressure (mmHg)	9.6
KOC (L/kg).	3.60E+02
Henry's Law coefficient (-).	0.32
Molecular weight (g/mol).	1.06E+02
Degradation rate, saturated zone (1/d).	3.00E-03

Degradation rate, vadose zone (1/d). 3.00E-03

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 12.

CHEMICAL DATA FOR: Toluene

Diffusion coefficient in air (cm2/s)	8.70E-02
Diffusion coefficient in water (cm2/s)	8.60E-06
Solubility (mg/l)	5.26E+02
Vapor pressure (mmHg)	28.
KOC (L/kg).	1.80E+02
Henry's Law coefficient (-).	0.27
Molecular weight (g/mol).	92.
Degradation rate, saturated zone (1/d).	2.50E-02
Degradation rate, vadose zone (1/d).	2.50E-02

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 5.3

CHEMICAL DATA FOR: TPH Aromatic C10-12

Diffusion coefficient in air (cm2/s)	0.10
Diffusion coefficient in water (cm2/s)	1.00E-05
Solubility (mg/l)	25.
Vapor pressure (mmHg)	0.48
KOC (L/kg).	2.50E+03
Henry's Law coefficient (-).	0.14
Molecular weight (g/mol).	1.30E+02
Degradation rate, saturated zone (1/d).	0.0
Degradation rate, vadose zone (1/d).	0.0

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 2.40E+03

CHEMICAL DATA FOR: TPH Aromatic C16-21

Diffusion coefficient in air (cm2/s)	0.10
Diffusion coefficient in water (cm2/s)	1.00E-05
Solubility (mg/l)	0.51
Vapor pressure (mmHg)	5.80E-03
KOC (L/kg).	1.60E+04
Henry's Law coefficient (-).	1.30E-02
Molecular weight (g/mol).	1.90E+02
Degradation rate, saturated zone (1/d).	0.0
Degradation rate, vadose zone (1/d).	0.0

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 8.75E+03

CHEMICAL DATA FOR: Xylenes

Diffusion coefficient in air (cm2/s)	7.20E-02
Diffusion coefficient in water (cm2/s)	8.50E-06
Solubility (mg/l)	1.98E+02
Vapor pressure (mmHg)	8.8
KOC (L/kg).	2.40E+02
Henry's Law coefficient (-).	0.29
Molecular weight (g/mol).	1.06E+02
Degradation rate, saturated zone (1/d).	1.90E-03
Degradation rate, vadose zone (1/d).	1.90E-03

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 9.5

FATE AND TRANSPORT MODEL INPUT SUMMARY FILE - CLAY BARRIER

Model Description:
Unsaturated zone model linked with saturated zone model

Title:
AGU 8" with Barrier

Simulation time (years).	100

Vadose Zone Source Parameters

Thickness of contamination (m)	4.6
Depth to top of contamination (m).	3.4
Length of source (m)	93.
Width of source (m).	4.6

Unsaturated Zone Properties

Total Porosity in vadose zone (cm3/cm3)	0.30
Residual water content (cm3/cm3)	5.00E-02
Fraction organic carbon (g oc/g soil).	2.00E-03
Soil bulk density (g/cm3).	1.7
Infiltration Rate (cm/yr).	1.00E-02
Saturated conductivity (m/d)	5.0
Van Genuchten's N.	2.7
Thickness of vadose zone (m)	38.

Lens Parameters

Thickness of lens (m).	0.30
Total porosity in lens (cm3/cm3)	0.45
Residual water content--lens (cm3/cm3)	0.17
Saturated conductivity (m/d)	1.50E-02
Van Genuchten N in lens.	1.1

Aquifer Properties

Effective porosity (cm3/cm3)	0.30
Fraction organic carbon (g oc/g soil).	2.00E-03

Hydraulic conductivity (m/d)	5.0
Soil bulk density (g/cm3).	1.7
Hydraulic gradient (m/m)	1.00E-03

***Longitudinal dispersivity (m). code calculated
***Transverse dispersivity (m). code calculated
***Vertical dispersivity (m). code calculated

Receptor Well Location

Distance downgradient (m).	0.10
Distance cross-gradient (m).	0.10
Depth to top of well screen (m).	38.
Depth to bottom of well screen(m).	44.
Number of points used to calc. conc.	5

TPH Data for Unsaturated Zone Source

Concentration of TPH in soil (mg/kg)	1.12E+04
Molecular weight of TPH (g/mol).	1.00E+02

CHEMICAL DATA FOR: Benzene

Diffusion coefficient in air (cm2/s)	8.80E-02
Diffusion coefficient in water (cm2/s)	9.80E-06
Solubility (mg/l)	1.75E+03
Vapor pressure (mmHg)	95.
KOC (L/kg).	59.
Henry's Law coefficient (-).	0.23
Molecular weight (g/mol).	78.
Degradation rate, saturated zone (1/d).	9.60E-04
Degradation rate, vadose zone (1/d).	9.60E-04

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 1.1

CHEMICAL DATA FOR: Ethylbenzene

Diffusion coefficient in air (cm2/s)	7.50E-02
Diffusion coefficient in water (cm2/s)	7.80E-06
Solubility (mg/l)	1.69E+02
Vapor pressure (mmHg)	9.6
KOC (L/kg).	3.60E+02
Henry's Law coefficient (-).	0.32
Molecular weight (g/mol).	1.06E+02
Degradation rate, saturated zone (1/d).	3.00E-03
Degradation rate, vadose zone (1/d).	3.00E-03

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 12.

CHEMICAL DATA FOR: Toluene

Diffusion coefficient in air (cm2/s)	8.70E-02
Diffusion coefficient in water (cm2/s)	8.60E-06
Solubility (mg/l)	5.26E+02
Vapor pressure (mmHg)	28.
KOC (L/kg).	1.80E+02
Henry's Law coefficient (-).	0.27
Molecular weight (g/mol).	92.
Degradation rate, saturated zone (1/d).	2.50E-02
Degradation rate, vadose zone (1/d).	2.50E-02

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 5.3

CHEMICAL DATA FOR: TPH Aliphatic C8-10

Diffusion coefficient in air (cm2/s)	0.10
Diffusion coefficient in water (cm2/s)	1.00E-05
Solubility (mg/l)	0.43
Vapor pressure (mmHg)	4.8
KOC (L/kg).	3.20E+04
Henry's Law coefficient (-).	82.
Molecular weight (g/mol).	1.30E+02
Degradation rate, saturated zone (1/d).	0.0
Degradation rate, vadose zone (1/d).	0.0

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 2.40E+03

CHEMICAL DATA FOR: TPH Aliphatic C12-16

Diffusion coefficient in air (cm2/s)	0.10
Diffusion coefficient in water (cm2/s)	1.00E-05
Solubility (mg/l)	7.60E-04
Vapor pressure (mmHg)	3.60E-02
KOC (L/kg).	5.00E+06
Henry's Law coefficient (-).	5.40E+02
Molecular weight (g/mol).	2.00E+02
Degradation rate, saturated zone (1/d).	0.0
Degradation rate, vadose zone (1/d).	0.0

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 8.75E+03

CHEMICAL DATA FOR: Xylenes

Diffusion coefficient in air (cm2/s)	7.20E-02
Diffusion coefficient in water (cm2/s)	8.50E-06
Solubility (mg/l)	1.98E+02
Vapor pressure (mmHg)	8.8
KOC (L/kg).	2.40E+02
Henry's Law coefficient (-).	0.29
Molecular weight (g/mol).	1.06E+02
Degradation rate, saturated zone (1/d).	1.90E-03
Degradation rate, vadose zone (1/d).	1.90E-03

Source Concentrations:

Source conc. for unsaturated zone model (mg/kg). 46.

District I
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Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Contact
EOTT Energy LLC	**Frank Hernandez**
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 505.631.3095
Facility Name Arrowhead Grayburg 8" Gathering	Facility Type 8" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
State of New Mexico		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 24' 55.774"N Lon. 103 13' 51.267"W
2	2	T22S	R36E					

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 20 barrels	Volume Recovered 0 barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence EOTT Energy LLC	Date and Hour of Discovery 6-30-03 @ 12:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? Sylvia Dickie	
By Whom? Pat McCasland, EPI	Date and Hour 6-30-03 @ 2:00 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
The leak was caused by internal/external corrosion. A line repair clamp was installed. The line will be tested and replaced if necessary.

Describe Area Affected and Cleanup Action Taken.*
Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

Signature: Frank Hernandez	**OIL CONSERVATION DIVISION**	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: July 1, 2003 Phone: 505.631.3095	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary