AP - 012

STAGE 1 & 2 WORKPLANS

DATE:

Feb. 2005

PLAINS
MARKETING, L.P.

February 7, 2005

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

AP-12

RECEIVED
FEB 8 2005
Per.....

Re: Plains All American Site Restoration Work Plan
and Proposed Soil Closure Strategy
TNM 98-05B Release Site
Section 26, T21S, R37E
Lea County, New Mexico

Dear Mr. Martin:

Please find attached for your approval a Site Restoration Work Plan and Proposed Soil Closure Strategy, dated February 2005, for the TNM 98-05B release site located in the Section 26, T21S, and R37E in Lea County, New Mexico. The Site Restoration Work Plan and Proposed Soil Closure Strategy details site activities conducted to date and future activities for remediation and closure of the site.

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

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

SITE RESTORATION WORK PLAN
AND
PROPOSED CLOSURE STRATEGY

TNM 98-05B
Section 26, Township 21 South, Range 37 East
Lea County, New Mexico
Plains EMS Number: TNM-98-05B

Volume 1 of 2

NOVA safety and environmental

Prepared For:

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February 2005

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1.0 INTRODUCTION

NOVA Safety and Environmental (NOVA) is pleased to submit this Site Restoration Work Plan and Proposed Closure Strategy to Plains Pipeline, L.P. (Plains) outlining proposed corrective actions at the TNM 98-05B (also known as TNM 98-05) crude oil release site and ultimate request for closure of soil issues at the site. The site, formerly operated by Enron Oil Trading and Transportation (EOTT) who became Link, is now owned by Plains. Section 3.0 of this Site Restoration Work Plan and Closure Strategy summarizes investigative and remedial activities performed at the site and presents the findings of these activities. Based on the results of these activities, Section 4.0 proposes a work plan that summarizes corrective actions and closure strategy of soil and groundwater issues at the site.

The site is located approximately two miles northeast of the town of Eunice, New Mexico in Section 26, Township 21 South, Range 37 East (FIGURE 1). The release occurred on February 4, 1998. An estimated 49 barrels of crude oil was released from a Texas –New Mexico 6" pipeline, of which approximately three barrels were recovered during the emergency response activities. The release was attributed to external corrosion of the pipeline.

Remedial actions conducted at the above referenced site are in accordance with General Work Plan for Remediation of Link Pipeline Spills, Leaks and Releases in New Mexico (GWPR) approved by NMOCD on August 1, 2000. The GWPR was developed to ensure consistency of response and closure at all Link release sites. The overall closure strategy for this site is consistent with the strategy outlined in the approved GWPR.

2.0 NEW MEXICO OIL CONSERVATION DIVISION - SITE CLASSIFICATION

Groundwater at this site occurs between 40 and 45 feet below ground surface (bgs) as evidenced by 10 monitor wells installed at the site. These site conditions result in 20-points assigned to the site (based on the NMOCD Site Ranking Criteria).

The distance to a possible water source (<1,000 feet) or private domestic water source (<200 feet) from the leak source is not clear, consequently a score of 20 points will be assigned to a yes answered under the well head protection criteria.

There are no down gradient surface water bodies located within 1,000 feet of the site. These site conditions result in no points assigned to the site as a result of this criterion.

The NMOCD guidelines indicate that the site would have a Ranking Score of 40 points. The soil action levels for a site with a score greater than 19 points as determined by the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993) are as follows: Benzene - 10 ppm, BTEX - 50 ppm and TPH - 100 ppm. According to the WQCC regulatory limits groundwater action levels are as follows: Benzene – 0.01 mg/l, Toluene – 0.75 mg/l, Ethylbenzene – 0.75 mg/l, and Total Xylenes – 0.62 mg/l.

3.0 SUMMARY OF FIELD ACTIVITIES

In summary, field activities have included a shallow soil investigation utilizing a Geo-Probe® soil boring machine, a deeper soil investigation utilizing a drilling rig, excavation of crude oil affected soils and a groundwater investigation whereby 10 monitor wells were installed at the site. Each activity is discussed in the following subsections.

3.1 Geo-Probe® Shallow Soil Investigation

A Geo-Probe® investigation was performed at the site in April 2000 to initially assess oil impacted soils. The Geo-Probe® points were advanced to refusal at an average depth of 13 feet bgs. FIGURE 2 displays the location of Geo-Probe® borings and other site details. In summary, the analytical results of boring terminus soil samples collected near the leak source (GP-7, GP-10 and GP-11) indicated TPH concentrations above regulatory guidelines at 13 feet bgs. All other soil boring soil sample data exhibited TPH concentrations below regulatory clean up levels at 13 feet bgs. TABLE I displays the analytical results of laboratory analyzed soil samples obtained during the Geo-Probe® investigation. The certified laboratory reports are provided in APPENDIX A.

3.2 Deeper Soil Investigation

In June 2001, three deeper soil borings were advanced to the capillary fringe zone ranging from 40 to 46 feet below ground surface (bgs). Ten to eleven soil samples from each soil boring were submitted for laboratory analysis of TPH. The soil samples were obtained from a depth range of surface to approximately 45 feet bgs. FIGURE 2 displays the location of the deeper soil borings and other site details. In summary, all soil samples submitted for laboratory analysis exhibited TPH concentrations below regulatory clean up levels. TABLE 2 displays the analytical results of the soil samples obtained from the three deeper soil borings. The certified laboratory reports are provided in APPENDIX A.

In June 2001, five monitor wells (MW-1 through MW-5) were initially installed to assess soil and ground water conditions at the site. Five additional monitor wells (MW-6 through MW-10) were installed in April 2002. FIGURE 2 displays the locations of the ten monitor wells. In summary, a total of 10 to 12 soil samples from the bore holes of MW-1 through MW-5 were submitted for laboratory analysis of TPH. In addition, BTEX analysis was performed on the soil samples from MW-1. Two soil samples from the bore holes of MW-6 through MW-10 were submitted for laboratory analysis of BTEX and TPH. The analytical results indicate all soil samples submitted to the laboratory exhibited TPH and BTEX concentrations below regulatory guidelines with the exception of the upper three (surface to 12 feet bgs) soil samples collected from the MW-1 borehole. Soil samples below 12 feet exhibited BTEX and TPH concentrations below regulatory guidelines. The analytical results of soil samples obtained from monitor well drilling activities are presented in TABLE 3. The certified laboratory reports are provided in APPENDIX A.

3.3 Excavation Activities

Based on the analytical results of soil samples obtained from the Geo-Probe® bore holes, deeper soil borings and monitor well bore holes, excavation of crude oil impacted soils began in September 2001. Approximately 1,800 cubic yards (cy) of impacted soil was excavated and stockpiled on site. The excavation was completed to a depth of approximately 15 feet bgs. Soil samples were obtained from the walls of the excavation in November 2002 and a composite floor sample (15 feet) was obtained in April 2003. FIGURE 3 displays the excavation boundaries, confirmation soil sample locations, stockpiles and other site details. In summary, the analytical results indicate that the east and west walls exhibit TPH and BTEX concentrations below regulatory cleanup levels. However, the north and south wall samples exhibited TPH concentrations of 206 mg/kg and 5,681 mg/kg, respectively. The floor composite soil sample obtained in April 2003 exhibited a TPH concentration of 253 mg/Kg. The analytical results are presented in TABLE 3. The certified laboratory reports are provided in APPENDIX A.

The excavated soil was stockpiled at two onsite locations and due to landowner request was not spread and aerated. The stockpiles (West stockpile and East stockpile) were sampled in May 2002 and exhibited TPH concentrations of 1,975 mg/kg and 3,220 mg/kg, respectively. On August 23, 2004, one soil sample from the western stockpile and eight soil samples from the eastern soil stockpile were obtained for laboratory analysis of BTEX. The east stockpile was divided into eight grid cells (A through H). Soil samples were obtained by auguring approximately three feet into each grid cell on the stockpile. Soil samples from the east stockpile are identified as ESP-A through ESP-H and the soil sample obtained from the west stockpile is identified as WSP. FIGURE 3 displays the grid cell identification for the stockpile soil samples. In summary, all stockpile samples obtained on November 26, 2004 exhibited BTEX concentrations below regulatory guidelines. TPH concentrations were also below regulatory guidelines with the exception of ESP-G, which exhibited a TPH concentration of 109 mg/Kg. The analytical results of the stockpile soil samples are presented in TABLE 4. The certified laboratory reports are provided in APPENDIX A.

3.4 Groundwater Assessment

Based on groundwater gauging activities performed during each groundwater sampling event, the groundwater gradient is determined to be to the southeast. FIGURE 3 displays the locations of the monitor wells and groundwater gradient on November 30, 2004. TABLE 5 displays the historical (BTEX) analytical results of groundwater samples obtained from each well, during each quarterly sampling event, as well as the New Mexico groundwater clean up standards. The certified laboratory reports are provided in APPENDIX A.

In summary, monitor wells MW-1, MW-2 and MW-5 have been sampled on a quarterly basis from near completion date to November 30, 2004 and are the only three monitor wells that have exhibited any concentration of benzene since completion of all wells. Based on the historical groundwater analytical results, sampling frequency reduction was approved by the NMOCD in a letter dated April 28, 2004 and signed by Ed Martin granting that MW-3 and MW-4 be sampled on an annual basis. After installation of five additional monitor wells

(April 2004) with analytical results indicating that the additional wells did not contain detectible hydrocarbon concentrations, the groundwater sampling reduction request (annual basis) was amended in May 2004 to include MW-6 through MW-10. Monitor wells MW-3, MW-4, MW-6, MW-7, MW-8, MW-9 and MW-10 have consistently exhibited benzene, toluene, ethylbenzene and xylene (BTEX) concentrations below laboratory detection limits.

Historic concentrations of benzene detected in MW-1, MW-2 and MW-5 are summarized below.

- Benzene concentrations above regulatory guidelines were detected in MW-1 in the first two sampling events (June and September, 2001) followed by seven sampling events indicating benzene concentrations below regulatory guidelines (October 2001 to May 2003). Benzene concentrations slightly above 0.01 mg/L were detected in the August 2003 and February 2004 quarterly sampling events, followed by two consecutive sampling events indicating benzene concentrations well below regulatory clean up levels. The latest quarterly sampling event performed on November 30, 2004 indicated that MW-1 exhibited a benzene concentration above regulatory cleanup levels at 0.252 mg/L.

- Benzene concentrations above regulatory standards were detected in MW-2 during the first six quarterly sampling events (June 2001 to September 2002), followed by nine successive quarterly sampling events (November 2002 to November 2004) indicating benzene concentrations were below regulatory standards.

- Benzene concentrations above regulatory standards were detected in MW-5 during the first seven quarterly sampling events (June 2001 to November 2002), followed by seven successive quarterly sampling events (February 2003 to August 2004) indicating benzene concentrations were below regulatory standards. The latest quarterly sampling event performed on November 30, 2004 indicated that MW-5 exhibited a benzene concentration slightly above regulatory cleanup levels at 0.0121 mg/L.

4.0 SUPPLEMENTAL WORK PLAN

The remediation work plan, as outlined in this document, will serve as a Supplement to the *General Work Plan for Remediation of EOTT Pipeline Spills, Leaks and Releases in New Mexico* (GWPR) approved by NMOCD on August 1, 2000. The GWPR was developed to ensure consistency of response and closure at all EOTT release sites. Closure of the soils issue at this site will include additional excavation and backfilling the excavation with the excavated soils, currently stockpiled on site. The following sections summarize proposed corrective actions to facilitate closure of soil and groundwater issues at the site.

4.1 Soil Closure Strategy

Based on the analytical results of the excavation wall and floor soil samples obtained in November 2002 and April 2003 respectively, Plains proposes to mobilize an excavator to the site and remove additional soil from the north wall, south wall and floor of the excavation. Confirmation grab soil samples from each of the proposed excavated areas will be submitted for laboratory analysis of TPH by EPA Method 8015 Modified GRO/DRO and BTEX analysis using EPA Method 8021B. If the analytical results confirm that the excavation walls and floor exhibit TPH and BTEX concentrations below regulatory guidelines, then Plains proposes to back fill the excavation with the stockpiled excavated soil. The soil proposed to be excavated from the north and south walls and from the floor of the excavation will be segregated and will be blended with clean soil and placed in the excavation last so that it can aerate/remediate. Once the excavation is backfilled, one final composite soil sample will be collected and analyzed for BTEX and TPH. If the sample results are below NMOCD criteria, Plains will proceed with site restoration activities. If soil sample results are above NMOCD criteria, Plains will till the upper one-foot of backfill monthly and resample until soil meets NMOCD criteria. Upon completion of backfilling activities, the topography will be graded to original contours and the construction affected areas of the site will be re-seeded with grass/vegetation acceptable to the landowner.

4.2 Groundwater Closure Strategy

Based on the historical analytical results of groundwater samples collected from 10 monitor wells located at up gradient, cross gradient and down gradient locations around the leak source, Plains request that the NMOCD grant approval to a Groundwater Closure Strategy Plan as outlined below.

- Plains respectfully requests that monitor wells MW-6 through MW-10 (previously approved for annual groundwater sampling) be plugged and abandoned. This request is based on the analytical results of nine successive quarterly sampling events (May 2002 to November 2004), indicating non-detection concentrations of BTEX in the referenced wells. Additionally, three of the wells (MW-7, MW-8 and MW-9) are located up gradient of the leak source and two wells (MW-6 and MW-10) are located in cross gradient positions of the leak source. Monitor wells will be plugged by a licensed Water Well Driller and per the specifications of the State of New Mexico (FIGURE 4).

- The remaining five monitor wells (MW-1, MW-2, MW-3, MW-5 and MW-4) will continue to be sampled on a quarterly basis.

- Plains proposes that a final request for groundwater closure be granted after eight successive quarterly groundwater sampling events (as per NMOCD rule 19.15.1.19) indicate that all remaining monitor wells exhibit hydrocarbon concentrations below regulatory guidelines.

5.0 SITE CLOSURE REQUEST

Plains is prepared to begin field activities and perform the corrective actions summarized in the supplemental work plan, upon review and approval of the work plan by the NMOCD. Upon completion of the field activities summarized in this closure strategy plan, Plains will submit a Soil Closure Report to the NMOCD, documenting the results of confirmation soil samples, final topography restoration and monitor well plugging activities. In this report, Plains will request that the NMOCD grant closure to soil issues at the site. A groundwater closure report will follow after eight successive quarterly groundwater sampling events have demonstrated that hydrocarbon concentrations are below regulatory guidelines.

6.0 QA/QC PROCEDURES

6.1 Soil Sampling

Soil samples were obtained utilizing single-use, disposable, latex gloves. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace analysis using a photoionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to ELOT, in Midland, Texas for BTEX and TPH analyses using the methods described below. All samples were analyzed within approved holding times following the collection date.

- BTEX concentrations in accordance with EPA Method 8021B/5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO;

Results of laboratory analysis of the soil samples are summarized in Table 1, and the laboratory reports are provided as Appendix A.

6.2 Decontamination of Equipment

Soil sampling tools such as small hand shovels were washed with Liqui-Nox® detergent and rinsed with distilled water between collection of soil samples.

6.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

7.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Site Investigation Report and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA Safety and Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Pipeline Company. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Plains Pipeline Company.

DISTRIBUTION

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Tables

TABLE 1

TPH CONCENTRATIONS FROM GEO-PROBE - SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Method EPA 8015M		
		GRO	DRO	TOTAL TPH
		(mg/Kg)	(mg/Kg)	(mg/Kg)
Regulatory Levels				**100 mg/Kg**
GP1 001 4'	04/11/00	<10	<10	<10
GP1 002 7'	04/11/00	<10	<10	<10
GP1 003 10'	04/11/00	<10	<10	<10
GP1 004 13'	04/11/00	<10	<10	<10
GP2 001 4'	04/11/00	<10	<10	<10
GP2 002 7'	04/11/00	<10	<10	<10
GP2 003 10'	04/11/00	<10	<10	<10
GP2 004 13'	04/11/00	<10	<10	<10
GP2 005 16'	04/11/00	<10	<10	<10
GP3 001 4'	04/11/00	<10	<10	<10
GP3 002 7'	04/11/00	<10	<10	<10
GP3 003 10'	04/11/00	<10	<10	<10
GP3 004 13'	04/11/00	<10	<10	<10
GP3 005 16'	04/11/00	<10	<10	<10
GP4 001 4	04/11/00	<10	<10	<10
GP4 002 7'	04/11/00	<10	<10	<10
GP4 003 10'	04/11/00	<10	<10	<10
GP4 004 13'	04/11/00	<10	<10	<10
GP4 005 16'	04/11/00	<10	<10	<10
GP4 006 17.5'	04/11/00	<10	<10	<10
GP5 001 4'	04/11/00	<10	<10	<10
GP5 002 7'	04/11/00	<10	<10	<10
GP5 003 10'	04/11/00	<10	<10	<10
GP5 004 13'	04/11/00	<10	<10	<10
GP5 005 16'	04/11/00	<10	<10	<10
GP5 006 17.5'	04/11/00	<10	<10	<10
GP6 001 4'	04/11/00	43	<10	43
GP6 002 7'	04/11/00	10944	15918	**26,862**
GP6 003 10'	04/11/00	1231	2673	**3,904**
GP6 004 13'	04/11/00	<10	89	89
GP7 001 4'	04/11/00	3732	6777	**10,509**
GP7 002 7'	04/11/00	4996	9368	**14,364**
GP7 003 10'	04/11/00	3246	4762	**8,008**
GP7 004 13'	04/11/00	1778	3649	**5,427**
GP8 001 4'	04/11/00	<10	98	98
GP8 002 7'	04/11/00	<10	50	50
GP8 003 10'	04/11/00	<10	26	26
GP8 004 13'	04/11/00	<10	<10	<10
GP9 001 4'	04/12/00	<10	<10	<10
GP9 002 7'	04/12/00	<10	<10	<10
GP9 003 10'	04/12/00	<10	<10	<10
GP9 004 13'	04/12/00	<10	<10	<10

TABLE 1

TPH CONCENTRATIONS FROM GEO-PROBE - SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Method EPA 8015M		
		GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels				**100 mg/Kg**
GP10 001 4'	04/12/00	5357	12582	**17,939**
GP10 002 7'	04/12/00	3110	6536	**9,646**
GP10 003 10'	04/12/00	2774	4489	**7,263**
GP10 004 13'	04/12/00	84	762	**846**
GP11 001 4'	04/12/00	5025	9095	**14,120**
GP11 002 7'	04/12/00	3399	6924	**10,323**
GP11 003 10'	04/12/00	728	1945	**2,673**
GP11 004 13'	04/12/00	986	2419	**3,405**
GP12 001 4'	04/12/00	<10	70	70
GP12 002 7'	04/12/00	<10	<10	<10
GP12 003 10'	04/12/00	<10	<10	<10
GP12 004 13'	04/12/00	<10	<10	<10
GP13 001 4'	04/12/00	<10	<10	<10
GP13 002 7'	04/12/00	<10	<10	<10
GP13 003 10'	04/12/00	<10	<10	<10
GP13 004 13'	04/12/00	<10	<10	<10
GP14 001 4'	04/12/00	<10	<10	<10
GP14 002 7'	04/12/00	<10	<10	<10
GP14 003 10'	04/12/00	<10	<10	<10
GP14 004 13'	04/12/00	<10	<10	<10
GP15 001 4'	04/12/00	<10	<10	<10
GP15 002 7'	04/12/00	<10	<10	<10
GP15 003 10'	04/12/00	<10	<10	<10
GP15 004 13'	04/12/00	<10	<10	<10
GP16 001 4'	04/12/00	<10	<10	<10
GP16 002 7'	04/12/00	<10	<10	<10
GP16 003 10'	04/12/00	<10	<10	<10
GP16 004 13'	04/12/00	<10	<10	<10

TABLE 2

TPH CONCENTRATIONS FROM SOIL BORINGS
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Method EPA 8015M		
		GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels				**100 mg/Kg**
SB - 1 (0-2')	06/14/01	<1.3	<50	<50
SB - 1 (5-7')	06/14/01	<1.3	<50	<50
SB -1 (10-12')	06/14/01	<1.3	<50	<50
SB - 1 (15-17')	06/14/01	<1.3	<50	<50
SB - 1 (20-22')	06/14/01	<1.0	<50	<50
SB - 1 (25-27')	06/14/01	<1.0	<50	<50
SB -1 (30-32')	06/14/01	<1.0	<50	<50
SB - 1 (35-37')	06/14/01	<1.0	<50	<50
SB - 1 (40-42')	06/14/01	<1.0	<50	<50
SB - 1 (44-46')	06/14/01	<1.0	<50	<50
SB - 2 (0-2')	06/14/01	<1.0	<50	<50
SB - 2 (5-7')	06/14/01	<1.0	<50	<50
SB - 2 (10-12')	06/14/01	<1.0	<50	<50
SB - 2 (15-17')	06/14/01	<1.0	<50	<50
SB - 2 (20-22')	06/14/01	<1.3	<50	<50
SB - 2 (25-27')	06/14/01	<1.3	<50	<50
SB - 2 (30-32')	06/14/01	<1.3	<50	<50
SB - 2 (35-37')	06/14/01	<1.3	<50	<50
SB - 2 (40-42')	06/14/01	<1.3	<50	<50
SB - 2 (43')	06/14/01	<1.3	<50	<50
SB - 2 (45')	06/14/03	<1.3	<50	<50
SB - 3 (0-2')	06/14/01	<1.3	<50	<50
SB - 3 (5-7')	06/14/01	<1.3	<50	<50
SB - 3 (10-12')	06/14/01	<1.3	<50	<50
SB - 3 (15-17')	06/14/01	<1.3	<50	<50
SB - 3 (20-22')	06/14/01	<1.3	<50	<50
SB - 3 (25-27')	06/14/01	<1.3	<50	<50
SB - 3 (30-32')	06/14/01	<1.3	<50	<50
SB - 3 (35-37')	06/14/01	<1.3	<50	<50
SB - 3 (40-42')	06/14/01	<1.3	<50	<50
SB - 3 (43-45')	06/14/01	<1.3	<50	<50

TABLE 3

CONCENTRATIONS OF BTEX AND TPH IN MONITOR WELL - SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA 8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P,O-XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		**10 (mg/kg)**				**50 (mg/Kg)**			**100 (mg/Kg)**
MW - 1 (0-2')	06/12/01	-	-	-	-	-	9.67	6460	**6,470**
MW - 1 (5-7')	06/12/01	5.519	103.8	104.3	142.73	**356.349**	1584	1650	**3,234**
MW - 1 (10-12')	06/12/01	2.495	65.135	67.093	114.85	**249.573**	1259	384	**1,643**
MW - 1 (15-17')	06/12/01	<0.013	0.0261	0.0474	0.214	0.2875	7.57	<50	8
MW - 1 (20-22')	06/12/01	<0.013	0.0144	0.0143	0.1311	0.1598	6.56	<50	7
MW - 1 (25-27')	06/12/01	<0.013	<0.013	0.022	0.0599	0.0819	3.94	52	56
MW - 1 (30-32')	06/12/01	<0.013	0.017	0.0466	0.1377	0.2013	4.62	<50	5
MW - 1 (35-37')	06/12/01	<0.025	0.0304	0.074	0.212	0.3164	7.14	<50	7
MW - 1 (40-42')	06/12/01	<0.025	<0.025	<0.025	0.0785	0.0785	5.43	70	75
MW - 1 (45-47')	06/12/01	-	-	-	-	-	<1.3	<50	1
MW - 1 (50-52')	06/12/01	-	-	-	-	-	1.62	<50	2
MW - 2 (0-2')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (5-7')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (10-12')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (15-17')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (20-22')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (25-27')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (30-32')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (35-37')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (40-42')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (45-47')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 2 (50-52')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (0-2')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (5-7')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (10-12')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (15-17')	06/13/01	-	-	-	-	-	<1.3	<50	<50

TABLE 3

CONCENTRATIONS OF BTEX AND TPH IN MONITOR WELL - SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA 8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P,O-XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		**10 (mg/kg)**				**50 (mg/Kg)**			**100 (mg/Kg)**
MW - 3 (20-22')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (25-27')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (30-32')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (35-37')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (40-42')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (45-47')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (50-52')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 3 (55-56')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (0-2')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (5-7')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (10-12')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (15-17')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (20-22')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (25-27')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (30-32')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (35-37')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (40-42')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (45-47')	06/13/01	-	-	-	-	-	<1.3	<50	<50
MW - 4 (50-52')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (0-2')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (5-7')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (10-12')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (15-17')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (20-22')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (25-27')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (30-32')	06/14/01	-	-	-	-	-	<1.3	<50	<50

TABLE 3

CONCENTRATIONS OF BTEX AND TPH IN MONITOR WELL - SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA 8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P,O-XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		**10 (mg/kg)**				**50 (mg/Kg)**			**100 (mg/Kg)**
MW - 5 (35-37')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (40-42')	06/14/01	-	-	-	-	-	<1.3	<50	<50
MW - 5 (43-44')	06/14/01	<0.013	<0.013	<0.013	<0.013	<0.013	<1.3	<50	<50
MW - 6 (38-40')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 6 (43-45')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 7 (38-40')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 7 (43-45')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 8 (33-35')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 8 (43-45')	04/23/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 9 (23-25')	04/24/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 9 (43-45')	04/24/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 10 (33-35')	04/24/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50
MW - 10 (43-45')	04/24/02	<0.020	<0.020	<0.020	<0.020	<0.020	<5.0	<5.0	<50

TABLE 4

CONCENTRATIONS OF BTEX AND TPH IN EXCAVATION SOIL SAMPLES
TNM 98-05B
Plains Marketing, L.P.
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Methods: EPA SW 846-8015M		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P,O-XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)
Regulatory Levels		**5 mg/Kg**				**50 mg/Kg**			**100 mg/Kg**
Excavation Walls	05/08/02	<0.025	0.266	0.275	492	**492.541**	711	896	**1,607**
Excavation Btm	05/08/02	<0.025	0.028	<0.025	58.2	**58.228**	<10.0	35.3	35
Stockpile East	05/08/02	<0.025	0.026	0.243	513	**513.269**	1540	1680	**3,220**
Stockpile West	05/08/02	<0.025	0.178	0.137	318	**318.315**	895	1080	**1,975**
Excavation S. Wall	11/14/02	<0.025	0.885	7.46	11.4	19.745	781	4900	**5,681**
Excavation N. Wall	11/14/02	<0.025	<0.025	0.112	0.136	0.248	20.8	186	**207**
Excavation W. Wall	11/14/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10
Excavation E. Wall	11/14/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10
Excavation Btm.Comp.	04/16/03	<0.025	<0.025	0.044	0.106	0.15	21.1	232	**253**
ESP-A	11/26/2004	<0.01	0.0634	<0.01	0.0114	0.0748	<50	<1.0	<50
ESP-B	11/26/2004	<0.01	0.199	0.0117	<0.01	0.2107	<50	<1.0	<50
ESP-C	11/26/2004	<0.01	0.26	<0.01	0.0105	0.275	<50	<1.0	<50
ESP-D	11/26/2004	<0.01	0.114	<0.01	<0.01	0.114	<50	<1.0	<50
ESP-E	11/26/2004	<0.01	0.0835	<0.01	<0.01	0.0835	<50	<1.0	<50
ESP-F	11/26/2004	<0.050	0.258	<0.050	<0.050	0.258	<50	<5.0	<50
ESP-H	11/26/2004	<0.10	0.56	<0.10	<0.10	0.56	109	<.10.0	**109**
ESP-H	11/26/2004	<0.01	0.0626	<0.01	0.0164	0.079	<50	<1.0	<50
WSP	11/26/2004	<0.050	0.297	<0.050	<0.050	0.297	73.9	<5.0	73.9

TABLE 5

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05B
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
New Mexico BTEX Clean up Standards for Groundwater		0.01 mg/L	0.75 mg/L	0.75 mg/L	Total Xylenes 0.62 mg/L	
MW-1 through MW-5 completed June 2001						
MW - 1	06/20/01	**0.067**	0.017	<0.005	0.018	
	09/04/01	**0.030**	0.010	0.001	0.002	0.008
	10/25/01	0.002	0.006	0.001	0.002	0.001
	01/28/02	0.004	0.002	<0.001	<0.001	0.002
	05/06/02	0.004	0.004	<0.001	<0.001	0.002
	09/17/02	0.008	<0.001	<0.001	<0.001	0.003
	11/13/02	0.007	<0.001	<0.001	0.001	0.003
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	0.003	<0.001	<0.001	<0.001	<0.001
	08/15/03	**0.014**	0.010	0.011	0.019	0.005
	11/07/03	0.008	0.002	0.006	0.010	0.003
	02/04/04	**0.030**	0.008	0.010	0.019	0.007
	05/04/04	0.00973	0.00428	0.00821	0.0142	0.00391
	08/23/04	0.00469	<0.001	0.00572	0.00689	0.00219
	11/30/04	**0.252**	<0.001	0.121	0.026	
MW - 2	06/20/01	**0.119**	0.091	0.005		
	09/04/01	**0.437**	0.339	0.029	0.052	0.013
	10/25/01	**0.018**	0.019	0.002	0.004	0.001
	01/28/02	**0.011**	0.008	<0.001	0.003	0.001
	05/06/02	**0.017**	0.011	<0.001	<0.002	<0.001
	09/17/02	**0.024**	0.011	0.001	0.003	0.001
	11/13/02	0.006	0.004	<0.001	0.001	<0.001
	02/04/03	0.002	0.002	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/04/04	0.00145	<0.001	<0.001	<0.002	<0.001
	08/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.005	<0.005	<0.005	<0.005	
MW - 3	06/20/01	0.008	<0.005	<0.005	<0.005	
	09/04/01	0.009	0.005	<0.001	<0.001	<0.001
	10/25/01	0.003	0.002	<0.001	<0.001	<0.001
	01/28/02	0.002	0.001	<0.001	<0.001	<0.001
	05/06/02	0.003	0.001	<0.001	<0.001	<0.001
	09/17/02	0.004	0.001	<0.001	<0.001	<0.001
	11/13/02	0.003	0.001	<0.001	0.001	<0.001
	02/04/03	0.002	<0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.005	<0.005	<0.005	<0.005	
MW - 4	06/20/01	<0.005	<0.005	<0.005	<0.005	
	09/04/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/25/01	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 5

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05B
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
New Mexico BTEX Clean up Standards for Groundwater		0.01 mg/L	0.75 mg/L	0.75 mg/L	Total Xylenes 0.62 mg/L	
	01/28/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.005	<0.005	<0.005	<0.005	
MW - 5	06/20/01	**0.071**	0.058	<0.005	0.008	
	09/04/01	**0.023**	0.017	0.004	0.010	0.001
	10/25/01	**0.020**	0.011	<0.001	0.003	<0.001
	01/28/02	**0.055**	0.031	0.001	0.005	0.002
	05/06/02	**0.065**	0.035	0.001	0.005	0.004
	09/17/02	**0.031**	0.014	0.001	0.002	0.002
	11/13/02	**0.013**	0.006	<0.001	0.001	<0.001
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	0.004	<0.001	<0.001	<0.001	<0.001
	08/15/03	0.006	<0.001	<0.001	0.002	<0.001
	11/07/03	0.001	<0.001	<0.001	0.008	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/04/04	0.00358	<0.001	<0.001	<0.002	<0.001
	08/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	**0.0121**	<0.001	<0.001	0.0029	
MW-6 through MW-10 completed Aril 2002						
MW - 6	05/06/02	0.001	0.001	<0.001	<0.001	<0.001
	09/17/02	0.006	0.002	<0.001	<0.001	<0.001
	11/13/02	0.005	0.001	<0.001	<0.001	<0.001
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	0.003	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/06/02	0.002	0.002	<0.001	<0.001	<0.001
	09/17/02	0.004	0.002	<0.001	<0.001	<0.001
	11/13/02	0.004	0.002	<0.001	<0.001	<0.001
	02/04/03	0.002	0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/06/02	0.004	0.004	<0.001	<0.001	<0.001
	09/17/02	0.001	<0.001	<0.001	<0.001	<0.001
	11/13/02	0.003	0.002	<0.001	<0.001	<0.001

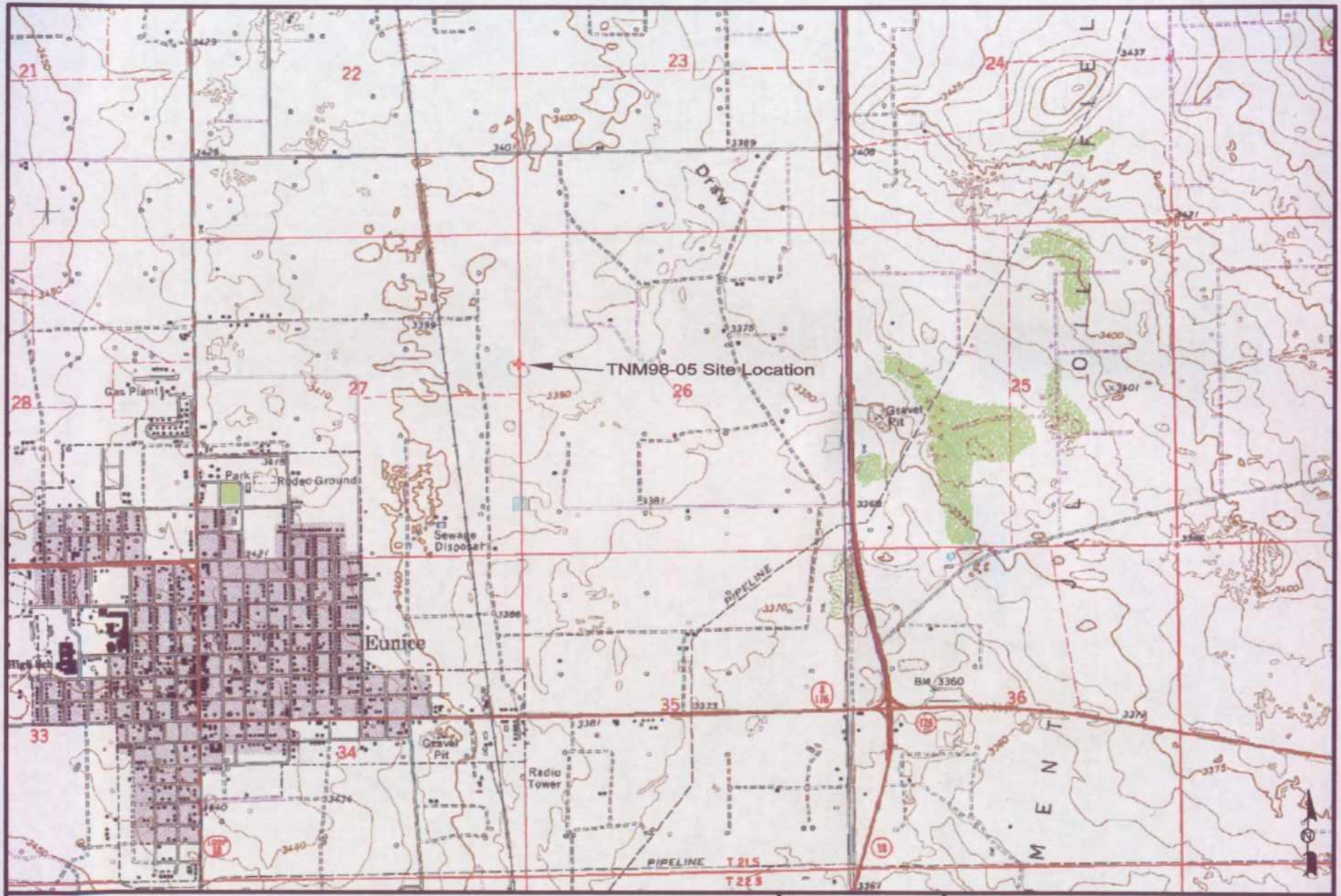
TABLE 5

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05B
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
New Mexico BTEX Clean up Standards for Groundwater		0.01 mg/L	0.75 mg/L	0.75 mg/L	Total Xylenes 0.62 mg/L	
	02/04/03	0.008	0.005	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	0.003	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	0.001	<0.001	<0.001	<0.001	
MW - 9	05/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/06/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/17/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
	02/04/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/15/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/07/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/04/04	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/04	<0.005	<0.005	<0.005	<0.005	

Figures

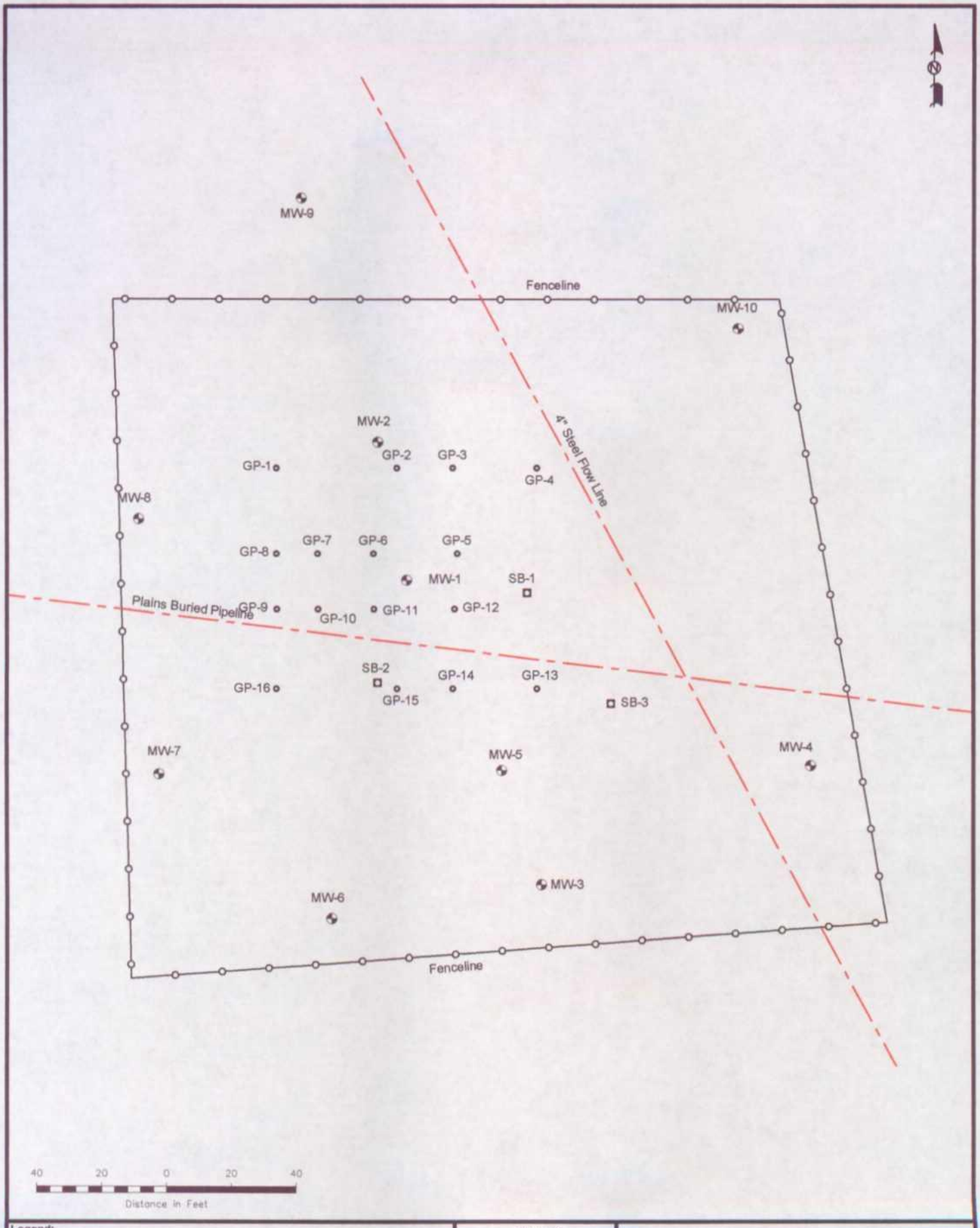


NE 1/4, NW 1/4, Sec. 26, T21S, R37E
32° 27' 03.8 N, 103°, 08', 30.3" W

Figure 1
Site Location Map
Plains Marketing, L.P.
TNM98-05B
Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
December 21, 2004		



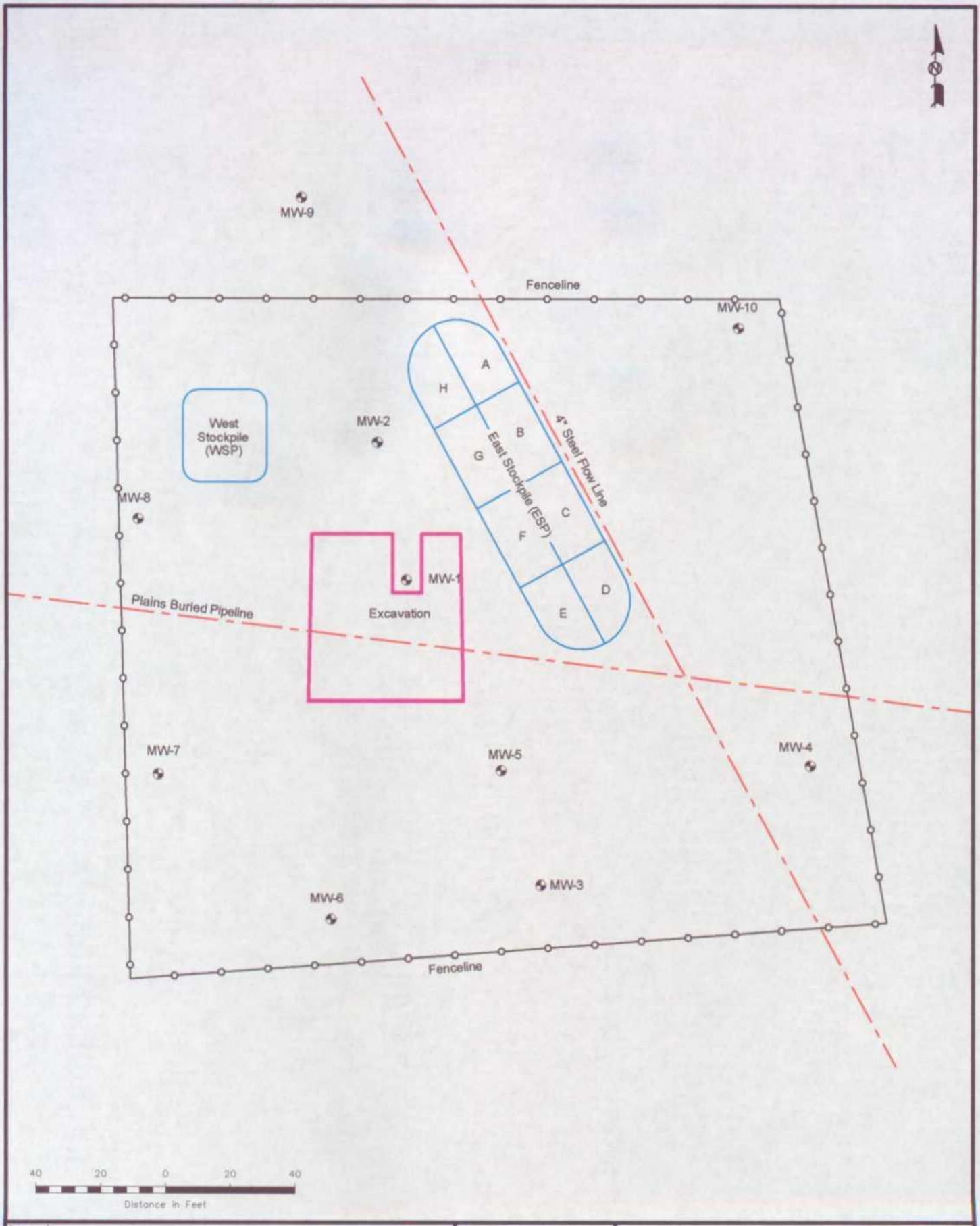
Legend:

- Geoprobe Location
- Monitor Well Location
- Soil Boring
- Fence

Figure 2
Site Detail Map
GeoProbe, Soil Boring & Monitor Well Locations
Plains Marketing, L.P.
TNM98-05B
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 40	Prep By: CS	Checked By: TKC
December 22, 2004		



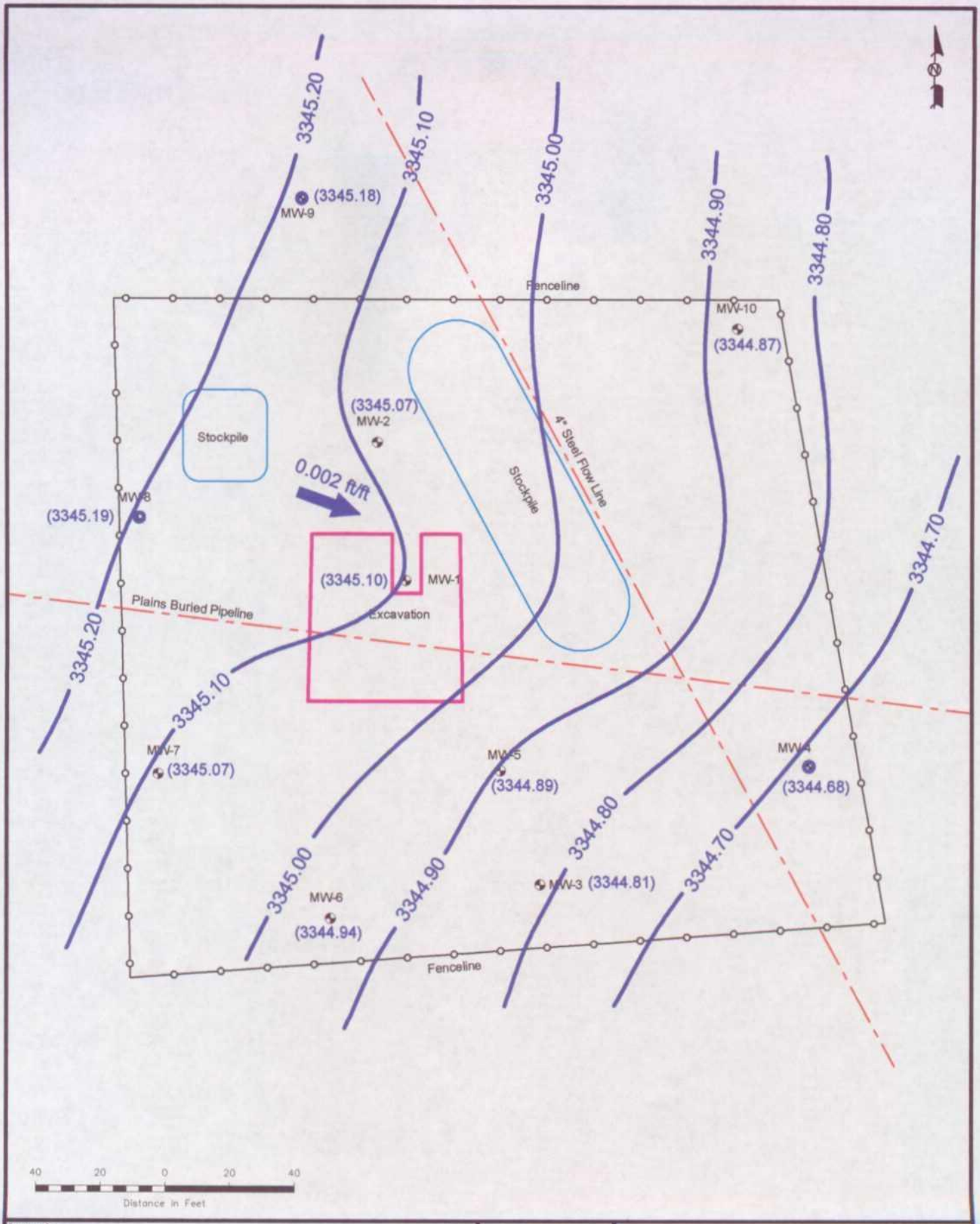
Legend:

- Monitor Well Location
- Fence

Figure 3
Site Details
Excavation and Stockpiles
Plains Marketing, L.P.
TNM98-05B
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 40	Prep By: CDS	Checked By: TKC
December 21, 2004		



Legend:

- Pipeline
- Monitor Well Location
- Fence
- 0.002 ft/ft — Groundwater Gradient Direction & Magitude
- (3344.47) — Groundwater Elevation in Feet
- Excavation

Figure 4
Inferred Groundwater Gradient (11/30/04)
Plains Marketing, L.P.
TNM98-05B
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 40	Prep By: DPM	Checked By: CE
February 2, 2005		

Appendices

Appendix A:
Soil Laboratory Reports

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: July 5, 2001

Order ID Number: A01061812

Project Number: EOT 2056C
Project Name: TNM 98-05
Project Location: Lea County,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
173497	MW-1 0'-2'	Soil	6/12/01	13:40	6/16/01
173498	MW-1 5'-7'	Soil	6/12/01	14:00	6/16/01
173499	MW-1 10'-12'	Soil	6/12/01	14:10	6/16/01
173500	MW-1 15'-17'	Soil	6/12/01	14:20	6/16/01
173501	MW-1 20'-22'	Soil	6/12/01	14:45	6/16/01
173502	MW-1 25'-27'	Soil	6/12/01	14:55	6/16/01
173503	MW-1 30'-32'	Soil	6/12/01	15:00	6/16/01
173504	MW-1 35'-37'	Soil	6/12/01	15:08	6/16/01
173505	MW-1 40'-42'	Soil	6/12/01	15:15	6/16/01
173506	MW-1 45-47	Soil	6/12/01	15:20	6/16/01
173507	MW-1 50-52	Soil	6/12/01	15:25	6/16/01
173508	MW-2 0-2'	Soil	6/13/01	7:45	6/16/01
173509	MW-2 5'-7'	Soil	6/13/01	7:57	6/16/01
173510	MW-2 10'-12'	Soil	6/13/01	8:05	6/16/01
173511	MW-2 15'-17'	Soil	6/13/01	8:15	6/16/01
173512	MW-2 20'-22'	Soil	6/13/01	8:25	6/16/01
173513	MW-2 25'-27'	Soil	6/13/01	8:35	6/16/01
173514	MW-2 30'-32'	Soil	6/13/01	8:47	6/16/01
173515	MW-2 35'-37'	Soil	6/13/01	9:00	6/16/01
173516	MW-2 40'-42'	Soil	6/13/01	9:17	6/16/01
173517	MW-2 45'-47'	Soil	6/13/01	9:30	6/16/01
173518	MW-2 50'-52'	Soil	6/13/01	9:38	6/16/01
173519	MW-3 0'-2'	Soil	6/13/01	10:15	6/16/01
173520	MW-3 5'-7'	Soil	6/13/01	10:20	6/16/01
173521	MW-3 10'-12'	Soil	6/13/01	10:25	6/16/01
173522	MW-3 15'-17'	Soil	6/13/01	10:40	6/16/01
173523	MW-3 20'-22'	Soil	6/13/01	10:50	6/16/01
173524	MW-3 25'-27'	Soil	6/13/01	10:59	6/16/01
173525	MW-3 30'-32'	Soil	6/13/01	11:10	6/16/01
173526	MW-3 35'-37'	Soil	6/13/01	11:25	6/16/01
173527	MW-3 40'-42'	Soil	6/13/01	11:42	6/16/01
173528	MW-3 45'-47'	Soil	6/13/01	12:00	6/16/01
173529	MW-3 50'-52'	Soil	6/13/01	12:17	6/16/01
173530	MW-3 55'-56'	Soil	6/13/01	12:27	6/16/01

Continued ...

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
173531	MW-4 0'-2'	Soil	6/13/01	13:30	6/16/01
173532	MW-4 5'-7'	Soil	6/13/01	13:37	6/16/01
173533	MW-4 10'-12'	Soil	6/13/01	13:50	6/16/01
173534	MW-4 15'-17'	Soil	6/13/01	14:00	6/16/01
173535	MW-4 20'-22'	Soil	6/13/01	14:10	6/16/01
173536	MW-4 25'-27'	Soil	6/13/01	14:20	6/16/01
173537	MW-4 30-32'	Soil	6/13/01	14:27	6/16/01
173538	MW-4 35'-37'	Soil	6/13/01	14:40	6/16/01
173539	MW-4 40'-42'	Soil	6/13/01	14:45	6/16/01
173540	MW-4 45'-47'	Soil	6/13/01	15:00	6/16/01
173541	MW-4 50'-52'	Soil	6/14/01	15:10	6/16/01
173542	MW-5 0'-2'	Soil	6/14/01	8:00	6/16/01
173543	MW-5 5'-7'	Soil	6/14/01	8:10	6/16/01
173544	MW-5 10'-12'	Soil	6/14/01	8:25	6/16/01
173545	MW-5 15'-17'	Soil	6/14/01	8:30	6/16/01
173546	MW-5 20'-22'	Soil	6/14/01	8:38	6/16/01
173547	MW-5 25-27	Soil	6/14/01	8:45	6/16/01
173548	MW-5 30'-32'	Soil	6/14/01	8:52	6/16/01
173549	MW-5 35'-37'	Soil	6/14/01	9:00	6/16/01
173550	MW-5 40'-42'	Soil	6/14/01	9:10	6/16/01
173551	MW-5 43-44'	Soil	6/12/01	9:15	6/16/01
173552	SB-1 0'-2'	Soil	6/14/01	10:00	6/16/01
173553	SB-1 5'-7'	Soil	6/14/01	10:05	6/16/01
173554	SB-1 10'-12'	Soil	6/14/01	10:10	6/16/01
173555	SB-1 15-17'	Soil	6/14/01	10:25	6/16/01
173556	SB-1 20'-22'	Soil	6/14/01	10:32	6/16/01
173557	SB-1 25'-27'	Soil	6/14/01	10:40	6/16/01
173558	SB-1 30'-32'	Soil	6/14/01	10:52	6/16/01
173559	SB-1 35-37	Soil	6/14/01	11:00	6/16/01
173560	SB-1 40-42	Soil	6/14/01	11:10	6/16/01
173561	SB-1 44'-46'	Soil	6/14/01	11:20	6/16/01
173562	SB-2 0'-2'	Soil	6/14/01	12:00	6/16/01
173563	SB-2 5'-7'	Soil	6/14/01	12:05	6/16/01
173564	SB-2 10'-12'	Soil	6/14/01	12:10	6/16/01
173565	SB-2 15'-17'	Soil	6/14/01	12:20	6/16/01
173566	SB-2 20'-22'	Soil	6/14/01	12:29	6/16/01
173567	SB-2 25'-27'	Soil	6/14/01	12:40	6/16/01
173568	SB-2 30'-32'	Soil	6/14/01	12:50	6/16/01
173569	SB-2 35-37	Soil	6/14/01	13:00	6/16/01
173570	SB-2 40-42	Soil	6/14/01	13:07	6/16/01
173571	SB-2 43'	Soil	6/14/01	13:12	6/16/01
173572	SB-2 45'	Soil	6/14/01	13:18	6/16/01
173573	SB-3 0'-2'	Soil	6/14/01	13:45	6/16/01
173574	SB-3 5-7	Soil	6/14/01	13:50	6/16/01
173575	SB-3 10-12	Soil	6/14/01	13:55	6/16/01
173576	SB-3 15'-17'	Soil	6/14/01	14:04	6/16/01
173577	SB-3 20-22'	Soil	6/14/01	14:15	6/16/01
173578	SB-3 25'-27'	Soil	6/14/01	14:27	6/16/01
173579	SB-3 30'-32'	Soil	6/14/01	14:40	6/16/01
173580	SB-3 35'-37'	Soil	6/14/01	14:54	6/16/01
173581	SB-3 40'-42'	Soil	6/14/01	15:00	6/16/01
173582	SB-3 45'	Soil	6/14/01	15:09	6/16/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 68 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 173497 - MW-1 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		6460	mg/Kg	5	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		1180	mg/Kg	5	250	94	70 - 130

Sample: 173497 - MW-1 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		9.67	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.16	mg/Kg	13	0.10	89	70 - 130
4-BFB	[1]	1.75	mg/Kg	13	0.10	135	70 - 130

Sample: 173498 - MW-1 5'-7'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		5.519	mg/Kg	100	0.001
Toluene		103.8	mg/Kg	100	0.001
Ethylbenzene		104.3	mg/Kg	100	0.001
M,P,O-Xylene		142.73	mg/Kg	100	0.001
Total BTEX		356.35	mg/Kg	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		41.6	mg/Kg	100	0.10	410	72 - 128
4-BFB	[2]	134	mg/Kg	100	0.10	1340	72 - 128

Sample: 173498 - MW-1 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

[1]SURROGATE OUT OF LIMITS DUE TO PEAK INTERFERENCE
[2]SURROGATE OUT OF LIMITS DUE TO PEAK INTERFERENCE

Param	Flag	Result	Units	Dilution	RDL
DRO		1650	mg/Kg	2	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		518	mg/Kg	2	250	103	70 - 130

Sample: 173498 - MW-1 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		1584	mg/Kg	100	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[3]	41.6	mg/Kg	100	0.10	416	70 - 130
4-BFB	[4]	134	mg/Kg	100	0.10	1340	70 - 130

Sample: 173499 - MW-1 10'-12'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		2.495	mg/Kg	100	0.001
Toluene		65.135	mg/Kg	100	0.001
Ethylbenzene		67.093	mg/Kg	100	0.001
M,P,O-Xylene		114.85	mg/Kg	100	0.001
Total BTEX		249.573	mg/Kg	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		40.4	mg/Kg	100	0.10	40	72 - 128
4-BFB	[5]	147	mg/Kg	100	0.10	1470	72 - 128

Sample: 173499 - MW-1 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		384	mg/Kg	1	50

[3]SURROGATE OUT OF LIMITS DUE TO MATRIX
[4]SURROGATE OUT OF LIMITS DUE TO PEAK INTERFERENCE
[5]SURROGATE OUT OF LIMITS DUE TO PEAK INTERFERENCE

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[6]	320	mg/Kg	1	250	128	70 - 130

Sample: 173499 - MW-1 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		1259	mg/Kg	100	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[7]	40.4	mg/Kg	100	0.10	404	70 - 130
4-BFB	[8]	147	mg/Kg	100	0.10	1470	70 - 130

Sample: 173500 - MW-1 15'-17'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.013	mg/Kg	13	0.001
Toluene		0.0261	mg/Kg	13	0.001
Ethylbenzene		0.0474	mg/Kg	13	0.001
M,P,O-Xylene		0.214	mg/Kg	13	0.001
Total BTEX		0.2875	mg/Kg	13	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.22	mg/Kg	13	0.10	92	72 - 128
4-BFB		1.37	mg/Kg	13	0.10	100	72 - 128

Sample: 173500 - MW-1 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		238	mg/Kg	1	250	95	70 - 130

[6]MATRIX INTERFERENCE ON SURROGATE RECOVERY
[7]SURROGATE OUT OF LIMITS DUE TO MATRIX
[8]SURROGATE OUT OF LIMITS DUE TO PEAK INTERFERENCE

Sample: 173500 - MW-1 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		7.57	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.22	mg/Kg	13	0.10	93	70 - 130
4-BFB		1.37	mg/Kg	13	0.10	105	70 - 130

Sample: 173501 - MW-1 20'-22'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.013	mg/Kg	13	0.001
Toluene		0.0144	mg/Kg	13	0.001
Ethylbenzene		0.0143	mg/Kg	13	0.001
M,P,O-Xylene		0.1311	mg/Kg	13	0.001
Total BTEX		0.1598	mg/Kg	13	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	91	72 - 128
4-BFB		1.28	mg/Kg	13	0.10	99	72 - 128

Sample: 173501 - MW-1 20'-22'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		242	mg/Kg	1	250	96	70 - 130

Sample: 173501 - MW-1 20'-22'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		6.56	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173502 - MW-1 25'-27'

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC12050 | Date Analyzed: 6/19/01
Analyst: CG | Preparation Method: E 5035 | Prep Batch: PB10592 | Date Prepared: 6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.013	mg/Kg	13	0.001
Toluene		<0.013	mg/Kg	13	0.001
Ethylbenzene		0.022	mg/Kg	13	0.001
M,P,O-Xylene		0.0599	mg/Kg	13	0.001
Total BTEX		0.0819	mg/Kg	13	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	88	72 - 128
4-BFB		1.35	mg/Kg	13	0.10	102	72 - 128

Sample: 173502 - MW-1 25'-27'

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC12027 | Date Analyzed: 6/18/01
Analyst: JJ | Preparation Method: 3550 B | Prep Batch: PB10297 | Date Prepared: 6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		52	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		245	mg/Kg	1	250	98	70 - 130

Sample: 173502 - MW-1 25'-27'

Analysis: TPH GRO | Analytical Method: 8015B | QC Batch: QC12172 | Date Analyzed: 6/21/01
Analyst: CG | Preparation Method: 5035 | Prep Batch: PB10318 | Date Prepared: 6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		3.94	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.35	mg/Kg	13	0.10	103	70 - 130

Sample: 173503 - MW-1 30'-32'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.013	mg/Kg	13	0.001
Toluene		0.017	mg/Kg	13	0.001
Ethylbenzene		0.0466	mg/Kg	13	0.001
M,P,O-Xylene		0.1377	mg/Kg	13	0.001
Total BTEX		0.2013	mg/Kg	13	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.13	mg/Kg	13	0.10	87	72 - 128
4-BFB		1.29	mg/Kg	13	0.10	99	72 - 128

Sample: 173503 - MW-1 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		239	mg/Kg	1	250	95	70 - 130

Sample: 173503 - MW-1 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		4.62	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.13	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.29	mg/Kg	13	0.10	99	70 - 130

Sample: 173504 - MW-1 35'-37'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.025	mg/Kg	25	0.001
Toluene		0.0304	mg/Kg	25	0.001
Ethylbenzene		0.074	mg/Kg	25	0.001

Continued ...

... Continued Sample: 173504 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		0.212	mg/Kg	25	0.001
Total BTEX		0.3164	mg/Kg	25	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		2.15	mg/Kg	25	0.10	88	72 - 128
4-BFB		2.54	mg/Kg	25	0.10	101	72 - 128

Sample: 173504 - MW-1 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		270	mg/Kg	1	250	108	70 - 130

Sample: 173504 - MW-1 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		7.14	mg/Kg	25	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		2.15	mg/Kg	25	0.10	86	70 - 130
4-BFB		2.54	mg/Kg	25	0.10	101	70 - 130

Sample: 173505 - MW-1 40'-42'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12050	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10592	Date Prepared:	6/21/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.025	mg/Kg	25	0.001
Toluene		<0.025	mg/Kg	25	0.001
Ethylbenzene		<0.025	mg/Kg	25	0.001
M,P,O-Xylene		0.0786	mg/Kg	25	0.001
Total BTEX		0.0786	mg/Kg	25	0.001

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		2.18	mg/Kg	25	0.10	88	72 - 128
4-BFB		2.5	mg/Kg	25	0.10	100	72 - 128

Sample: 173505 - MW-1 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		70	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		261	mg/Kg	1	250	104	70 - 130

Sample: 173505 - MW-1 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		5.43	mg/Kg	25	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		2.18	mg/Kg	25	0.10	87	70 - 130
4-BFB		2.5	mg/Kg	25	0.10	100	70 - 130

Sample: 173506 - MW-1 45-47

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		250	mg/Kg	1	250	100	70 - 130

Sample: 173506 - MW-1 45-47

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1	mg/Kg	13	0.10	76	70 - 130
4-BFB		1.2	mg/Kg	13	0.10	92	70 - 130

Sample: 173507 - MW-1 50-52

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		280	mg/Kg	1	250	112	70 - 130

Sample: 173507 - MW-1 50-52

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		1.62	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173508 - MW-2 0-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		249	mg/Kg	1	250	99	70 - 130

Sample: 173508 - MW-2 0-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.09	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173509 - MW-2 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		257	mg/Kg	1	250	102	70 - 130

Sample: 173509 - MW-2 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.02	mg/Kg	13	0.10	78	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173510 - MW-2 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		241	mg/Kg	1	250	96	70 - 130

Sample: 173510 - MW-2 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.06	mg/Kg	13	0.10	81	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173511 - MW-2 15'-17'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12027 Date Analyzed: 6/18/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10297 Date Prepared: 6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		247	mg/Kg	1	250	98	70 - 130

Sample: 173511 - MW-2 15'-17'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC12172 Date Analyzed: 6/21/01
Analyst: CG Preparation Method: 5035 Prep Batch: PB10318 Date Prepared: 6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173512 - MW-2 20'-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12027 Date Analyzed: 6/18/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10297 Date Prepared: 6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		269	mg/Kg	1	250	107	70 - 130

Sample: 173512 - MW-2 20'-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC12172 Date Analyzed: 6/21/01
Analyst: CG Preparation Method: 5035 Prep Batch: PB10318 Date Prepared: 6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.976	mg/Kg	13	0.10	75	70 - 130
4-BFB		1.19	mg/Kg	13	0.10	91	70 - 130

Sample: 173513 - MW-2 25'-27'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		236	mg/Kg	1	250	94	70 - 130

Sample: 173513 - MW-2 25'-27'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	94	70 - 130

Sample: 173514 - MW-2 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		240	mg/Kg	1	250	96	70 - 130

Sample: 173514 - MW-2 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.05	mg/Kg	13	0.10	80	70 - 130
4-BFB		1.2	mg/Kg	13	0.10	92	70 - 130

Sample: 173515 - MW-2 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12027	Date Analyzed:	6/18/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10297	Date Prepared:	6/18/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		238	mg/Kg	1	250	95	70 - 130

Sample: 173515 - MW-2 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12172	Date Analyzed:	6/21/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10318	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.08	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173516 - MW-2 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		261	mg/Kg	1	250	104	70 - 130

Sample: 173516 - MW-2 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	94	70 - 130

Sample: 173517 - MW-2 45'-47'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		235	mg/Kg	1	250	94	70 - 130

Sample: 173517 - MW-2 45'-47'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	95	70 - 130

Sample: 173518 - MW-2 50'-52'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		235	mg/Kg	1	250	94	70 - 130

Sample: 173518 - MW-2 50'-52'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.09	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	93	70 - 130

Sample: 173519 - MW-3 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		234	mg/Kg	1	250	93	70 - 130

Sample: 173519 - MW-3 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.04	mg/Kg	13	0.10	80	70 - 130
4-BFB		1.18	mg/Kg	13	0.10	90	70 - 130

Sample: 173520 - MW-3 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		235	mg/Kg	1	250	94	70 - 130

Sample: 173520 - MW-3 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173521 - MW-3 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		238	mg/Kg	1	250	95	70 - 130

Sample: 173521 - MW-3 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.15	mg/Kg	13	0.10	88	70 - 130
4-BFB		1.32	mg/Kg	13	0.10	101	70 - 130

Sample: 173522 - MW-3 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		211	mg/Kg	1	250	84	70 - 130

Sample: 173522 - MW-3 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.31	mg/Kg	13	0.10	100	70 - 130

Sample: 173523 - MW-3 20'-22'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		186	mg/Kg	1	250	74	70 - 130

Sample: 173523 - MW-3 20'-22'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1	mg/Kg	13	0.10	76	70 - 130
4-BFB		1.17	mg/Kg	13	0.10	90	70 - 130

Sample: 173524 - MW-3 25'-27'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		225	mg/Kg	1	250	90	70 - 130

Sample: 173524 - MW-3 25'-27'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.17	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.25	mg/Kg	13	0.10	96	70 - 130

Sample: 173525 - MW-3 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		248	mg/Kg	1	250	99	70 - 130

Sample: 173525 - MW-3 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.18	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.3	mg/Kg	13	0.10	100	70 - 130

Sample: 173526 - MW-3 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		244	mg/Kg	1	250	97	70 - 130

Sample: 173526 - MW-3 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	95	70 - 130

Sample: 173527 - MW-3 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		266	mg/Kg	1	250	106	70 - 130

Sample: 173527 - MW-3 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.15	mg/Kg	13	0.10	88	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	94	70 - 130

Sample: 173528 - MW-3 45'-47'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		226	mg/Kg	1	250	90	70 - 130

Sample: 173528 - MW-3 45'-47'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	94	70 - 130

Sample: 173529 - MW-3 50'-52'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		236	mg/Kg	1	250	94	70 - 130

Sample: 173529 - MW-3 50'-52'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173530 - MW-3 55'-56'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		232	mg/Kg	1	250	92	70 - 130

Sample: 173530 - MW-3 55'-56'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.19	mg/Kg	13	0.10	91	70 - 130

Sample: 173531 - MW-4 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		181	mg/Kg	1	250	72	70 - 130

Sample: 173531 - MW-4 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.08	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.18	mg/Kg	13	0.10	90	70 - 130

Sample: 173532 - MW-4 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[9]	160	mg/Kg	1	250	64	70 - 130

[9]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENTS

Sample: 173532 - MW-4 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.2	mg/Kg	13	0.10	92	70 - 130
4-BFB		1.41	mg/Kg	13	0.10	108	70 - 130

Sample: 173533 - MW-4 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		240	mg/Kg	1	250	96	70 - 130

Sample: 173533 - MW-4 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.13	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173534 - MW-4 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		230	mg/Kg	1	250	92	70 - 130

Sample: 173534 - MW-4 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.31	mg/Kg	13	0.10	100	70 - 130

Sample: 173535 - MW-4 20'-22'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12071	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10328	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		237	mg/Kg	1	250	94	70 - 130

Sample: 173535 - MW-4 20'-22'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12052	Date Analyzed:	6/19/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10319	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.29	mg/Kg	13	0.10	99	70 - 130

Sample: 173536 - MW-4 25'-27'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		232	mg/Kg	1	250	92	70 - 130

Sample: 173536 - MW-4 25'-27'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173537 - MW-4 30-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		268	mg/Kg	1	250	107	70 - 130

Sample: 173537 - MW-4 30-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.06	mg/Kg	13	0.10	81	70 - 130
4-BFB		1.16	mg/Kg	13	0.10	89	70 - 130

Sample: 173538 - MW-4 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		211	mg/Kg	1	250	84	70 - 130

Sample: 173538 - MW-4 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.07	mg/Kg	13	0.10	82	70 - 130
4-BFB		1.18	mg/Kg	13	0.10	90	70 - 130

Sample: 173539 - MW-4 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		212	mg/Kg	1	250	84	70 - 130

Sample: 173539 - MW-4 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.05	mg/Kg	13	0.10	80	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	93	70 - 130

Sample: 173540 - MW-4 45'-47'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		228	mg/Kg	1	250	91	70 - 130

Sample: 173540 - MW-4 45'-47'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173541 - MW-4 50'-52'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		235	mg/Kg	1	250	94	70 - 130

Sample: 173541 - MW-4 50'-52'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.08	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	93	70 - 130

Sample: 173542 - MW-5 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		287	mg/Kg	1	250	114	70 - 130

Sample: 173542 - MW-5 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.3	mg/Kg	13	0.10	100	70 - 130

Sample: 173543 - MW-5 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		294	mg/Kg	1	250	117	70 - 130

Sample: 173543 - MW-5 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.13	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173544 - MW-5 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[10]	166	mg/Kg	1	250	66	70 - 130

[10]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENTS

Sample: 173544 - MW-5 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.21	mg/Kg	13	0.10	93	70 - 130

Sample: 173545 - MW-5 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		192	mg/Kg	1	250	76	70 - 130

Sample: 173545 - MW-5 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0841	mg/Kg	13	0.10	84	70 - 130
4-BFB		0.0953	mg/Kg	13	0.10	95	70 - 130

Sample: 173546 - MW-5 20'-22'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		198	mg/Kg	1	250	79	70 - 130

Sample: 173546 - MW-5 20'-22'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173547 - MW-5 25-27

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		177	mg/Kg	1	250	70	70 - 130

Sample: 173547 - MW-5 25-27

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.09	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.16	mg/Kg	13	0.10	89	70 - 130

Sample: 173548 - MW-5 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[11]	170	mg/Kg	1	250	68	70 - 130

[11] LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENTS

Sample: 173548 - MW-5 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.23	mg/Kg	13	0.10	94	70 - 130

Sample: 173549 - MW-5 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		190	mg/Kg	1	250	76	70 - 130

Sample: 173549 - MW-5 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173550 - MW-5 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[12]	142	mg/Kg	1	250	56	70 - 130

[12]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENTS

Sample: 173550 - MW-5 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.25	mg/Kg	13	0.10	96	70 - 130

Sample: 173551 - MW-5 43-44'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC12392	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	E 5035	Prep Batch:	PB10603	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.013	mg/Kg	13	0.001
Toluene		<0.013	mg/Kg	13	0.001
Ethylbenzene		<0.013	mg/Kg	13	0.001
M,P,O-Xylene		<0.013	mg/Kg	13	0.001
Total BTEX		<0.013	mg/Kg	13	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.36	mg/Kg	1	0.10	104	72 - 128
4-BFB		1.21	mg/Kg	1	0.10	93	72 - 128

Sample: 173551 - MW-5 43-44'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		197	mg/Kg	1	250	78	70 - 130

Sample: 173551 - MW-5 43-44'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.17	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.21	mg/Kg	13	0.10	93	70 - 130

Sample: 173552 - SB-1 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		181	mg/Kg	1	250	72	70 - 130

Sample: 173552 - SB-1 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.19	mg/Kg	13	0.10	91	70 - 130
4-BFB		1.29	mg/Kg	13	0.10	99	70 - 130

Sample: 173553 - SB-1 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[13]	171	mg/Kg	1	250	68	70 - 130

Sample: 173553 - SB-1 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

[13]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENTS

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.08	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.14	mg/Kg	13	0.10	87	70 - 130

Sample: 173554 - SB-1 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12072	Date Analyzed:	6/19/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10329	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		244	mg/Kg	1	250	97	70 - 130

Sample: 173554 - SB-1 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.18	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173555 - SB-1 15-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		185	mg/Kg	1	250	74	70 - 130

Sample: 173555 - SB-1 15-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12188	Date Analyzed:	6/20/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10317	Date Prepared:	6/19/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0896	mg/Kg	13	0.10	89	70 - 130
4-BFB		0.1	mg/Kg	13	0.10	100	70 - 130

Sample: 173556 - SB-1 20'-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12081 Date Analyzed: 6/20/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10336 Date Prepared: 6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		232	mg/Kg	1	250	92	70 - 130

Sample: 173556 - SB-1 20'-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC12271 Date Analyzed: 6/26/01
Analyst: CG Preparation Method: 5035 Prep Batch: PB10494 Date Prepared: 6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.389	mg/Kg	10	0.10	77	70 - 130
4-BFB	[14]	0.312	mg/Kg	10	0.10	62	70 - 130

Sample: 173557 - SB-1 25'-27'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12081 Date Analyzed: 6/20/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10336 Date Prepared: 6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[15]	173	mg/Kg	1	250	69	70 - 130

[14] Elevated reporting limits due to use of 100ppm surrogate.
[15] LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Sample: 173557 - SB-1 25'-27'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.363	mg/Kg	10	0.10	72	70 - 130
4-BFB		0.366	mg/Kg	10	0.10	73	70 - 130

Sample: 173558 - SB-1 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		201	mg/Kg	1	250	80	70 - 130

Sample: 173558 - SB-1 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.352	mg/Kg	10	0.10	70	70 - 130
4-BFB		0.361	mg/Kg	10	0.10	72	70 - 130

Sample: 173559 - SB-1 35-37

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		186	mg/Kg	1	250	74	70 - 130

Sample: 173559 - SB-1 35-37

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.383	mg/Kg	10	0.10	76	70 - 130
4-BFB		0.352	mg/Kg	10	0.10	70	70 - 130

Sample: 173560 - SB-1 40-42

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		219	mg/Kg	1	250	87	70 - 130

Sample: 173560 - SB-1 40-42

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.398	mg/Kg	10	0.10	79	70 - 130
4-BFB	[16]	0.326	mg/Kg	10	0.10	65	70 - 130

Sample: 173561 - SB-1 44'-46'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		195	mg/Kg	1	250	78	70 - 130

[16] Elevated reporting limits due to use of 100ppm surrogate.

Sample: 173561 - SB-1 44'-46'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[17]	0.347	mg/Kg	10	0.10	69	70 - 130
4-BFB		0.35	mg/Kg	10	0.10	70	70 - 130

Sample: 173562 - SB-2 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[18]	166	mg/Kg	1	250	66	70 - 130

Sample: 173562 - SB-2 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.358	mg/Kg	10	0.10	72	70 - 130
4-BFB	[19]	0.338	mg/Kg	10	0.10	68	70 - 130

Sample: 173563 - SB-2 5'-7'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

[17] Elevated reporting limits due to use of 100ppm surrogate.
[18] LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT
[19] Elevated reporting limits due to use of 100ppm surrogate.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		179	mg/Kg	1	250	71	70 - 130

Sample: 173563 - SB-2 5'-7'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.376	mg/Kg	10	0.10	75	70 - 130
4-BFB		0.365	mg/Kg	10	0.10	73	70 - 130

Sample: 173564 - SB-2 10'-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		193	mg/Kg	1	250	77	70 - 130

Sample: 173564 - SB-2 10'-12'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.875	mg/Kg	10	0.10	88	70 - 130
4-BFB		1	mg/Kg	10	0.10	100	70 - 130

Sample: 173565 - SB-2 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		271	mg/Kg	1	250	108	70 - 130

Sample: 173565 - SB-2 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12271	Date Analyzed:	6/26/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10494	Date Prepared:	6/26/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1	mg/Kg	10	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.763	mg/Kg	10	0.10	76	70 - 130
4-BFB		0.782	mg/Kg	10	0.10	78	70 - 130

Sample: 173566 - SB-2 20'-22'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		243	mg/Kg	1	250	97	70 - 130

Sample: 173566 - SB-2 20'-22'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.18	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.37	mg/Kg	13	0.10	105	70 - 130

Sample: 173567 - SB-2 25'-27'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		188	mg/Kg	1	250	75	70 - 130

Sample: 173567 - SB-2 25'-27'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.16	mg/Kg	13	0.10	89	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173568 - SB-2 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[20]	162	mg/Kg	1	250	64	70 - 130

Sample: 173568 - SB-2 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173569 - SB-2 35-37

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

[20]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		196	mg/Kg	1	250	78	70 - 130

Sample: 173569 - SB-2 35-37

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.18	mg/Kg	13	0.10	90	70 - 130
4-BFB		1.32	mg/Kg	13	0.10	101	70 - 130

Sample: 173570 - SB-2 40-42

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		206	mg/Kg	1	250	82	70 - 130

Sample: 173570 - SB-2 40-42

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.21	mg/Kg	13	0.10	93	70 - 130

Sample: 173571 - SB-2 43'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		193	mg/Kg	1	250	77	70 - 130

Sample: 173571 - SB-2 43'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.21	mg/Kg	13	0.10	93	70 - 130
4-BFB		1.3	mg/Kg	13	0.10	100	70 - 130

Sample: 173572 - SB-2 45'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		191	mg/Kg	1	250	76	70 - 130

Sample: 173572 - SB-2 45'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.15	mg/Kg	13	0.10	88	70 - 130
4-BFB		1.28	mg/Kg	13	0.10	98	70 - 130

Sample: 173573 - SB-3 0'-2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		191	mg/Kg	1	250	76	70 - 130

Sample: 173573 - SB-3 0'-2'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.15	mg/Kg	13	0.10	88	70 - 130
4-BFB		1.25	mg/Kg	13	0.10	96	70 - 130

Sample: 173574 - SB-3 5-7

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12081	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10336	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[21]	155	mg/Kg	1	250	62	70 - 130

Sample: 173574 - SB-3 5-7

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.2	mg/Kg	13	0.10	92	70 - 130

[21] LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Sample: 173575 - SB-3 10-12

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[22]	128	mg/Kg	1	250	51	70 - 130

Sample: 173575 - SB-3 10-12

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.15	mg/Kg	13	0.10	88	70 - 130
4-BFB		1.38	mg/Kg	13	0.10	106	70 - 130

Sample: 173576 - SB-3 15'-17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[23]	172	mg/Kg	1	250	68	70 - 130

Sample: 173576 - SB-3 15'-17'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.09	mg/Kg	13	0.10	83	70 - 130

Continued ...

[22]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT
[23]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173577 - SB-3 20-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12082 Date Analyzed: 6/20/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10337 Date Prepared: 6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[24]	169	mg/Kg	1	250	67	70 - 130

Sample: 173577 - SB-3 20-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC12189 Date Analyzed: 6/22/01
Analyst: CG Preparation Method: 5035 Prep Batch: PB10421 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173578 - SB-3 25'-27'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC12082 Date Analyzed: 6/20/01
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB10337 Date Prepared: 6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		197	mg/Kg	1	250	78	70 - 130

Sample: 173578 - SB-3 25'-27'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC12189 Date Analyzed: 6/22/01
Analyst: CG Preparation Method: 5035 Prep Batch: PB10421 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

[24]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.13	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	93	70 - 130

Sample: 173579 - SB-3 30'-32'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		213	mg/Kg	1	250	85	70 - 130

Sample: 173579 - SB-3 30'-32'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.1	mg/Kg	13	0.10	84	70 - 130
4-BFB		1.18	mg/Kg	13	0.10	90	70 - 130

Sample: 173580 - SB-3 35'-37'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		230	mg/Kg	1	250	92	70 - 130

Sample: 173580 - SB-3 35'-37'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.09	mg/Kg	13	0.10	83	70 - 130
4-BFB		1.24	mg/Kg	13	0.10	95	70 - 130

Sample: 173581 - SB-3 40'-42'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		194	mg/Kg	1	250	77	70 - 130

Sample: 173581 - SB-3 40'-42'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.26	mg/Kg	13	0.10	96	70 - 130

Sample: 173582 - SB-3 45'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12082	Date Analyzed:	6/20/01
Analyst:	JJ	Preparation Method:	3550 B	Prep Batch:	PB10337	Date Prepared:	6/20/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		184	mg/Kg	1	250	73	70 - 130

Sample: 173582 - SB-3 45'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC12189	Date Analyzed:	6/22/01
Analyst:	CG	Preparation Method:	5035	Prep Batch:	PB10421	Date Prepared:	6/22/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<1.3	mg/Kg	13	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.12	mg/Kg	13	0.10	86	70 - 130
4-BFB		1.22	mg/Kg	13	0.10	93	70 - 130

Quality Control Report
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QCBatch: QC12027

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		<0	mg/Kg	1	250	100	70 - 130

Method Blank

QCBatch: QC12050

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.013	mg/Kg	0.001
Toluene		<0.013	mg/Kg	0.001
Ethylbenzene		<0.013	mg/Kg	0.001
M,P,O-Xylene		<0.013	mg/Kg	0.001
Total BTEX		<0.013	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	88	72 - 128
4-BFB		1.29	mg/Kg	13	0.10	99	72 - 128

Method Blank

QCBatch: QC12052

Param	Flag	Results	Units	Reporting Limit
GRO		1.77	mg/Kg	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.07	mg/Kg	13	0.10	82	70 - 130
4-BFB		1.32	mg/Kg	13	0.10	101	70 - 130

Method Blank

QCBatch: QC12071

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		<0	mg/Kg	1	250	89	70 - 130

Method Blank

QCBatch: QC12072

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		<0	mg/Kg	1	250	90	70 - 130

Method Blank

QCBatch: QC12081

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		<0	mg/Kg	1	250	91	70 - 130

Method Blank

QCBatch: QC12082

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		<0	mg/Kg	1	250	85	70 - 130

Method Blank

QCBatch: QC12172

Param	Flag	Results	Units	Reporting Limit
GRO		1.77	mg/Kg	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.14	mg/Kg	13	0.10	87	70 - 130
4-BFB		1.29	mg/Kg	13	0.10	99	70 - 130

Method Blank

QCBatch: QC12188

Param	Flag	Results	Units	Reporting Limit
GRO		1.77	mg/Kg	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.11	mg/Kg	13	0.10	85	70 - 130
4-BFB		1.29	mg/Kg	13	0.10	99	70 - 130

Method Blank

QCBatch: QC12189

Param	Flag	Results	Units	Reporting Limit
GRO		1.77	mg/Kg	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.23	mg/Kg	13	0.10	94	70 - 130
4-BFB		1.4	mg/Kg	13	0.10	107	70 - 130

Method Blank

QCBatch: QC12271

Param	Flag	Results	Units	Reporting Limit
GRO		1.77	mg/Kg	0.10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.975	mg/Kg	10	0.10	97	70 - 130
4-BFB		1.04	mg/Kg	10	0.10	104	70 - 130

Method Blank

QCBatch: QC12392

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.013	mg/Kg	0.001
Toluene		<0.013	mg/Kg	0.001
Ethylbenzene		<0.013	mg/Kg	0.001
M,P,O-Xylene		<0.013	mg/Kg	0.001
Total BTEX		<0.013	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		1.24	mg/Kg	13	0.10	95	72 - 128

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		1.16	mg/Kg	13	0.10	89	72 - 128

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC12027

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	290	290	mg/Kg	1	250	<50	126	13	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	285	253	mg/Kg	1	250	114	101	70 - 130

Laboratory Control Spikes

QCBatch: QC12050

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	1.26	1.29	mg/Kg	1	0.10	<0.013	1260	2	80 - 120	20
Benzene	1.26	1.28	mg/Kg	1	0.10	<0.013	1260	1	80 - 120	20
Toluene	1.2	1.23	mg/Kg	1	0.10	<0.013	1200	2	80 - 120	20
Ethylbenzene	1.21	1.23	mg/Kg	1	0.10	<0.013	1210	1	80 - 120	20
M,P,O-Xylene	3.63	3.68	mg/Kg	1	0.30	<0.013	1210	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	1.31	1.29	mg/Kg	13	0.10	100	99	72 - 128
4-BFB	1.21	1.22	mg/Kg	13	0.10	92	94	72 - 128

Laboratory Control Spikes

QCBatch: QC12052

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	12.4	12	mg/Kg	13	1	1.77	93	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.095	0.0984	mg/Kg	13	0.10	95	98	70 - 130
4-BFB	0.0989	0.099	mg/Kg	13	0.10	98	99	70 - 130

Laboratory Control Spikes

QCBatch: QC12071

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	290	290	mg/Kg	1	250	<50	101	11	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	210	205	mg/Kg	1	250	84	82	70 - 130

Laboratory Control Spikes

QCBatch: QC12072

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	290	290	mg/Kg	1	250	<50	112	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	235	236	mg/Kg	1	250	94	94	70 - 130

Laboratory Control Spikes

QCBatch: QC12081

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	290	290	mg/Kg	1	250	<50	102	4	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	204	210	mg/Kg	1	250	81	84	70 - 130

Laboratory Control Spikes

QCBatch: QC12082

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	290	290	mg/Kg	1	250	<50	104	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	210	222	mg/Kg	1	250	84	88	70 - 130

Laboratory Control Spikes

QCBatch: QC12172

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	12.4	12	mg/Kg	13	1	1.77	102	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.101	0.0999	mg/Kg	1	0.10	101	99	70 - 130
4-BFB	0.104	0.1054	mg/Kg	1	0.10	104	105	70 - 130

Laboratory Control Spikes

QCBatch: QC12188

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	12.4	12	mg/Kg	13	1	1.77	94	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0835	0.1051	mg/Kg	13	0.10	83	105	70 - 130
4-BFB	0.0972	0.0999	mg/Kg	13	0.10	97	99	70 - 130

Laboratory Control Spikes

QCBatch: QC12189

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	12.4	12	mg/Kg	13	1	1.77	96	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0861	0.0858	mg/Kg	13	0.10	86	85	70 - 130
4-BFB	0.098	0.0996	mg/Kg	13	0.10	98	99	70 - 130

Laboratory Control Spikes

QCBatch: QC12271

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	12.4	12	mg/Kg	10	1	1.77	83	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0877	0.0861	mg/Kg	10	0.10	87	86	70 - 130
4-BFB	0.0961	0.0948	mg/Kg	10	0.10	96	94	70 - 130

Laboratory Control Spikes

QCBatch: QC12392

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	1.25	1.31	mg/Kg	13	0.10	<0.013	96	4	80 - 120	20
Benzene	1.23	1.28	mg/Kg	13	0.10	<0.013	94	3	80 - 120	20
Toluene	1.16	1.22	mg/Kg	13	0.10	<0.013	89	5	80 - 120	20
Ethylbenzene	1.17	1.23	mg/Kg	13	0.10	<0.013	90	4	80 - 120	20
M,P,O-Xylene	3.55	3.7	mg/Kg	13	0.30	<0.013	91	4	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	1.26	1.29	mg/Kg	13	0.10	96	99	72 - 128
4-BFB	1.2	1.23	mg/Kg	13	0.10	92	94	72 - 128

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC12027

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	< 50	< 50	mg/Kg	1	250	<50	122	11	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
n-Octane	255	236	mg/Kg	1	250	102	94	70 - 130

Matrix Spikes

QCBatch: QC12050

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Benzene	1.44	1.5	mg/Kg	13	0.10	<0.013	107	4	80 - 120	20
Toluene	1.49	1.5	mg/Kg	13	0.10	<0.013	108	0	80 - 120	20
Ethylbenzene	2.3	2.28	mg/Kg	13	0.10	1.03	98	1	80 - 120	20
M,P,O-Xylene	6.02	6.03	mg/Kg	13	0.30	2.17	99	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	1.5	1.56	mg/Kg	13	0.10	115	120	72 - 128
4-BFB	1.28	1.63	mg/Kg	13	0.10	98	123	72 - 128

Matrix Spikes

QCBatch: QC12052

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	2.95	2.46	mg/Kg	13	0.10	<1.3	226	13	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	1.1	1.14	mg/Kg	13	0.10	84	87	70 - 130
4-BFB	1.28	1.28	mg/Kg	13	0.10	98	98	70 - 130

Matrix Spikes

QCBatch: QC12071

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	< 50	< 50	mg/Kg	1	250	<50	105	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
n-Octane	234	236	mg/Kg	1	250	93	94	70 - 130

Matrix Spikes

QCBatch: QC12072

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	< 50	< 50	mg/Kg	1	250	<50	104	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
n-Octane	218	216	mg/Kg	1	250	87	86	70 - 130

Matrix Spikes

QCBatch: QC12081

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	< 50	< 50	mg/Kg	1	250	<50	83	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
n-Octane	190	178	mg/Kg	1	250	76	71	70 - 130

Matrix Spikes

QCBatch: QC12082

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	< 50	< 50	mg/Kg	1	250	<50	71	4	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
n-Octane	[25] 157	[26] 159	mg/Kg	1	250	62	63	70 - 130

Matrix Spikes

QCBatch: QC12172

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	2.95	2.46	mg/Kg	13	1	6.56	164	15	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	1.17	1.14	mg/Kg	13	0.10	90	87	70 - 130
4-BFB	1.24	1.25	mg/Kg	13	0.10	95	96	70 - 130

Matrix Spikes

QCBatch: QC12188

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	2.95	2.46	mg/Kg	13	0.10	<1.3	226	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[25]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT
[26]LOW SURROGATE RECOVERY DUE TO METHOD SAMPLING REQUIREMENT

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	1.06	1.11	mg/Kg	13	0.10	81	85	70 - 130
4-BFB	1.18	1.2	mg/Kg	13	0.10	90	92	70 - 130

Matrix Spikes

QCBatch: QC12189

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	2.95	2.46	mg/Kg	13	1	<1.3	226	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	1.35	1.36	mg/Kg	13	0.10	103	104	70 - 130
4-BFB	1.25	1.27	mg/Kg	13	0.10	96	97	70 - 130

Matrix Spikes

QCBatch: QC12271

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	4.13	4.39	mg/Kg	10	1	<1	41	6	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
TFT	[27] 0.0566	[28] 0.0556	mg/Kg	10	0.10	56	55	70 - 130
4-BFB	[29] 0.0648	[30] 0.0692	mg/Kg	10	0.10	64	69	70 - 130

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC12027

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	75 - 125	6/18/01
n-Octane		mg/Kg	250	245	98	75 - 125	6/18/01

[27] Elevated reporting limits due to use of 100ppm surrogate.
[28] Elevated reporting limits due to use of 100ppm surrogate.
[29] Elevated reporting limits due to use of 100ppm surrogate.
[30] Elevated reporting limits due to use of 100ppm surrogate.

CCV (2) QCBatch: QC12027

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	272	108	75 - 125	6/18/01
n-Octane		mg/Kg	250	246	98	75 - 125	6/18/01

CCV (3) QCBatch: QC12027

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	277	110	75 - 125	6/18/01
n-Octane		mg/Kg	250	243	97	75 - 125	6/18/01

ICV (1) QCBatch: QC12027

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	278	111	75 - 125	6/18/01
n-Octane		mg/Kg	250	247	98	75 - 125	6/18/01

CCV (1) QCBatch: QC12050

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.106	106	85 - 115	6/19/01
Benzene		mg/Kg	0.10	0.104	104	85 - 115	6/19/01
Toluene		mg/Kg	0.10	0.104	104	85 - 115	6/19/01
Ethylbenzene		mg/Kg	0.10	0.103	103	85 - 115	6/19/01
M,P,O-Xylene		mg/Kg	0.30	0.308	102	85 - 115	6/19/01

ICV (1) QCBatch: QC12050

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.0989	98	85 - 115	6/19/01
Benzene		mg/Kg	0.10	0.0985	98	85 - 115	6/19/01
Toluene		mg/Kg	0.10	0.0953	95	85 - 115	6/19/01
Ethylbenzene		mg/Kg	0.10	0.0958	95	85 - 115	6/19/01
M,P,O-Xylene		mg/Kg	0.30	0.284	94	85 - 115	6/19/01

CCV (1) QCBatch: QC12052

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9335	93	75 - 125	6/19/01

CCV (2) QCBatch: QC12052

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9606	96	75 - 125	6/19/01

ICV (1) QCBatch: QC12052

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9314	93	75 - 125	6/19/01

CCV (1) QCBatch: QC12071

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	268	107	75 - 125	6/19/01
n-Octane		mg/Kg	250	242	96	75 - 125	6/19/01

CCV (2) QCBatch: QC12071

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	103	75 - 125	6/19/01
n-Octane		mg/Kg	250	238	95	75 - 125	6/19/01

CCV (3) QCBatch: QC12071

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	101	75 - 125	6/19/01
n-Octane		mg/Kg	250	239	95	75 - 125	6/19/01

ICV (1) QCBatch: QC12071

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	103	75 - 125	6/19/01
n-Octane		mg/Kg	250	234	93	75 - 125	6/19/01

CCV (1) QCBatch: QC12072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	75 - 125	6/19/01
n-Octane		mg/Kg	250	250	100	75 - 125	6/19/01

CCV (2) QCBatch: QC12072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	75 - 125	6/19/01
n-Octane		mg/Kg	250	256	102	75 - 125	6/19/01

CCV (3) QCBatch: QC12072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	75 - 125	6/19/01
n-Octane		mg/Kg	250	234	93	75 - 125	6/19/01

ICV (1) QCBatch: QC12072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	275	110	75 - 125	6/19/01
n-Octane		mg/Kg	250	242	96	75 - 125	6/19/01

CCV (1) QCBatch: QC12081

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	263	105	75 - 125	6/20/01

Continued ...

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
n-Octane		mg/Kg	250	220	88	75 - 125	6/20/01

CCV (2) QCBatch: QC12081

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	103	75 - 125	6/20/01
n-Octane		mg/Kg	250	242	96	75 - 125	6/20/01

CCV (3) QCBatch: QC12081

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	262	104	75 - 125	6/20/01
n-Octane		mg/Kg	250	216	86	75 - 125	6/20/01

ICV (1) QCBatch: QC12081

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	75 - 125	6/20/01
n-Octane		mg/Kg	250	220	88	75 - 125	6/20/01

CCV (1) QCBatch: QC12082

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	277	110	75 - 125	6/20/01
n-Octane		mg/Kg	250	227	90	75 - 125	6/20/01

CCV (2) QCBatch: QC12082

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	261	104	75 - 125	6/20/01
n-Octane		mg/Kg	250	241	96	75 - 125	6/20/01

ICV (1) QCBatch: QC12082

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	263	105	75 - 125	6/20/01
n-Octane		mg/Kg	250	224	89	75 - 125	6/20/01

CCV (1) QCBatch: QC12172

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.89	89	75 - 125	6/21/01

CCV (2) QCBatch: QC12172

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9314	93	75 - 125	6/21/01

ICV (1) QCBatch: QC12172

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.906	90	75 - 125	6/21/01

CCV (1) QCBatch: QC12188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.8725	87	75 - 125	6/20/01

CCV (2) QCBatch: QC12188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.8782	87	75 - 125	6/20/01

ICV (1) QCBatch: QC12188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.99	99	75 - 125	6/20/01

CCV (1) QCBatch: QC12189

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	1.01	101	75 - 125	6/22/01

CCV (2) QCBatch: QC12189

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9785	97	75 - 125	6/22/01

ICV (1) QCBatch: QC12189

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.9198	91	75 - 125	6/22/01

CCV (1) QCBatch: QC12271

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.877	87	75 - 125	6/26/01

CCV (2) QCBatch: QC12271

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.951	95	75 - 125	6/26/01

ICV (1) QCBatch: QC12271

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1	0.905	90	75 - 125	6/26/01

CCV (1)

QCBatch: QC12392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.096	96	85 - 115	6/20/01
Benzene		mg/Kg	0.10	0.095	95	85 - 115	6/20/01
Toluene		mg/Kg	0.10	0.0904	90	85 - 115	6/20/01
Ethylbenzene		mg/Kg	0.10	0.0892	89	85 - 115	6/20/01
M,P,O-Xylene		mg/Kg	0.30	0.2667	88	85 - 115	6/20/01

ICV (1)

QCBatch: QC12392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.0968	96	85 - 115	6/20/01
Benzene		mg/Kg	0.10	0.0962	96	85 - 115	6/20/01
Toluene		mg/Kg	0.10	0.091	91	85 - 115	6/20/01
Ethylbenzene		mg/Kg	0.10	0.0915	91	85 - 115	6/20/01
M,P,O-Xylene		mg/Kg	0.30	0.273	91	85 - 115	6/20/01

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COC 78

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0106181 2

Company Name: ETGI — Phone #: 505 397-4882

Address: (Street, City, Zip) 2540 W MARLAND HOBBS NM 88240 — Fax #: 505 397-4701

Contact Person: KEN DUTTON

Invoice to: (If different from above) EOTT

Project #: EOT 20566 — Project Name: TNM 98-05

Project Location: LEA County, NM — Sampler Signature: Armando Casas

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH [illegible] 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
3497	MW 1 0'-2'	1	40Z		X							X		6-12	1340			X														
98	MW 1 5'-7'														1400		X															
99	MW 1 10'-12'														1410		X															
500	MW 1 15'-17'														1420																	
501	MW 1 20'-22'														1445																	
502	MW 1 25'-27'														1455																	
503	MW 1 30'-32'														1500																	
504	MW 1 35'-37'														1508																	
505	MW 1 40'-42'														1515																	
506	MW 1 45'-47'														1520																	
507	MW 1 50-52														1525																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Armando Casas	6-15-01	1700	[signature]	6/15/01	1733
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Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

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Temp °
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REMARKS: 7/5

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0106181 2

Company Name: ETGI
Phone #: (505) 397-4882
Address: (Street, City, Zip) 2540 W MARLAND HOBBS NM 88240
Fax #: (505) 397-4701
Contact Person: KEN DITTON
Invoice to: (If different from above) EOTT
Project #: EOT 2056 C
Project Name: TNM 98-05
Project Location: LEA COUNTY, NM
Sampler Signature: Simon Casas

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2001)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH						Turn Around Time if different from standard	Hold
508	MW2 0-2'	1	40g		X							X		6-13	0745			X																			
9	MW 2 5-7'														0757																						
10	MW 2 10'-12'														0805																						
11	MW 2 15'-17'														0815																						
12	MW 2 20-22'														0825																						
13	MW 2 25-27'														0835																						
14	MW 2 30-32'														0847																						
15	MW 2 35-37'														0900																						
16	MW 2 40-42'														0917																						
17	MW 2 45-47'														0930																						
18	MW 2 50-52'														0938																						

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Received by: Date: Time:

Relinquished by: Simon Casas 6-15-01 1700
Received by: [signature] 6/15/01 1733

Received at Laboratory by: [signature] Date: 6/16/01 Time: 1000

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REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01061812

any Name: E.T.G.I Phone #: (505) 397-4882

ss: (Street, City, Zip) ~40 W Marland Hobbs, NM 88240 Fax #: (505) 397-4701

ct Person: Ken Dutton

e to: (erent from above) EOTT

t #: EOT 2056C Project Name: TNM 98-05

t Location: LEA COUNTY, NM Sampler Signature: Simon Casas

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	WATER	SOIL	AIR	SLUDGE	HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	DATE 2001	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
519	MW 3 0'-2'	1	4oz		X							X		6-13	1015			X														
20	MW 3 5'-7'														1020			"														
21	MW 3 10'-12'														1025			"														
22	MW 3 15'-17'														1040			"														
23	MW 3 20'-22'														1050			"														
24	MW 3 25'-27'														1059			"														
25	MW 3 30'-32'														1110			"														
26	MW 3 35'-37'														1125			"														
27	MW 3 40'-42'														1142			"														
28	MW 3 45'-47'														1200			"														
29	MW 3 50'-52'	↓	↓		↓							↓		↓	12.17			↓														

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Simon Casas	6-15-01	1700	C. [illegible]	6/15/01	1733
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [illegible]	Date: 06/16/01	Time: 1200

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0106181Z

Company Name: E. T. G. I
Phone #: (505) 397-4882
Address: (Street, City, Zip) 540 W MARLAND HOBBS NM 88240
Fax #: (505) 397-4701
Contact Person: KEN DUTTON
Invoice to: (If different from above) EOTT
Project #: EOT 20516C
Project Name: TNM 98-05
Project Location: LEA COUNTY, NM
Sampler Signature: Simon Casas

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2001)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
3530	MW 3 55'-57'	1	40Z		X							X		6/15/01	1227			X														
31	MW 4 0'-2'														1330																	
32	MW 4 5'-7'														1337																	
33	MW 4 10'-12'														1350																	
34	MW 4 15'-17'														1400																	
35	MW 4 20'-22'														1410																	
36	MW 4 25'-27'														1420																	
37	MW 4 30'-32'														1427																	
38	MW 4 35'-37'														1442																	
39	MW 4 40'-42'														1445																	
40	MW 4 45'-47'														1500																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Casas	6-15-01	1700	C. Todd Hop	6/15/01	1737
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			MD	6/16/01	1400

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0106181 2

pany Name: E.T.G.I. Phone #: (505) 397-4882

ess: (Street, City, Zip) 2540 W MARLAND HOBBS NM 88240 Fax #: (505) 397-4701

act Person: KEN DUTTON

ce to: lferent from above) EOTT

ct #: EOT 2051C Project Name: TNM 98-05

ct Location: LEA COUNTY, NM Sampler Signature: Aaron Cano

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
3541	MW4 50'-52'	1	40z		X							X		6-13	1510			X														
42	MW5 0'-2'													6-14	0800																	
43	MW5 5'-7'														0810																	
44	MW5 10'-12'														0825																	
45	MW5 15'-17'														0830																	
46	MW5 20'-22'														0838																	
47	MW5 25'-27'														0845																	
48	MW5 30'-32'														0852																	
49	MW5 35'-37'														0900																	
50	MW5 40'-42'														0910																	
51	MW5 43'-44'	↓	↓	↓								↓		↓	0915		X	↓														

quished by: Date: Time:
Aaron Cano 6-15-01 1700

Received by: Date: Time:
C. Hodnett 6/15/01 1733

quished by: Date: Time:

Received by: Date: Time:

quished by: Date: Time:

Received at Laboratory by: Date: Time:
MBR 06/15/01 1600

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01061812

pany Name: E.T.G.I. Phone #: (505) 397-4882

ress: (Street, City, Zip) 540 W MARLAND HOBBS NM 88240 Fax #: (505) 397-4781

tact Person: KENE DUTTON

ice to: fferent from above) EOTT

ect #: EOT 2951C Project Name: TNM 98-05

ect Location: LEA COUNTY, NM Sampler Signature: Simon Casas

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
3552	SB-1 0'-2'	1	40z		X							X		6-1-01	1060
53	SB-1 5'-7'														1065
54	SB-1 10'-12'														1080
55	SB-1 15'-17'														1025
56	SB-1 20'-22'														1032
57	SB-1 25'-27'														1040
58	SB-1 30'-32'														1052
59	SB-1 35-37														1100
60	SB-1 40-42														1110
61	SB-1 44'-46'														1120
62	SB-2 0'-2'														1200

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH							Turn Around Time if different from standard	Hold
		X																				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Casas	6/5/01	1700	[signature]	6/5/01	1733
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[signature]	06/6/01	1600

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REMARKS:

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Tel (915) 585-3443
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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01061812

Company Name: ETGI
Phone #: (505) 397-4882
Address: (Street, City, Zip) 2540 W Marland, Hobbs NM 88240
Fax #: (505) 397-4701
Contact Person: Ken Dutton
Invoice to: (If different from above) EOTT
Project #: EOT 2056C
Project Name: TNM 98-05
Project Location: Lea County, NM
Sampler Signature: Simon Casas

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE 2001	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 8015 DRO/GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
3563	SB-2 5'-7'	1	4oz		X							X		6-14	1205			•														
64	SB-2 10'-12'														1210			•														
65	SB-2 15'-17'														1220			•														
66	SB-2 20'-22'														1229			•														
67	SB-2 25'-27'														1240			•														
68	SB-2 30'-32'														1250			•														
69	SB-2 35-37														1300			•														
70	SB-2 40-42'														1307			•														
71	SB-2 43'														1312			•														
72	SB-2 45'														1318			•														
73	SB-3 0'-2'														1345			•														

Relinquished by: Simon Casas Date: 6-15-01 Time: 1700
Received by: [signature] Date: 6/15/01 Time: 1733
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: [signature] Date: 06/16/01 Time: 12:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4°
Log-in Review NM

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

78 Page 8 of 8

701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0106 1812

Company Name: ETGI
Phone #: (505) 397-4882
Address: (Street, City, Zip) 2540 W MARLAND HOBBS NM
Fax #: (505) 397-4701
Contact Person: KEN DUTTON
Invoice to: (If different from above) EOTT
Project #: EOT 2056C
Project Name: TNM 98-05
Project Location: LEA COUNTY NM
Sampler Signature: Simon Casas

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2001)	TIME
3574	SB 3 5-7	1	4oz		X							X		6-14	1350
75	SB 3 10-12	↓	↓		↓							↓		↓	1355
76	SB-3 15-17'	↓	↓		↓							↓		↓	1404
77	SB-3 20-22'	↓	↓		↓							↓		↓	1415
78	SB-3 25-27'	↓	↓		↓							↓		↓	1427
79	SB-3 30-32'	↓	↓		↓							↓		↓	1440
80	SB-3 35-37'	↓	↓		↓							↓		↓	1454
81	SB-3 40-42'	↓	↓		↓							↓		↓	1500
82	SB-3 45'	↓	↓		↓							↓		↓	1509
83	CUTTINGS	3	4oz		↓							↓		6/15	1600

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 8015 DRO GRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
3574			X														
75			↓														
76			↓														
77			↓														
78			↓														
79			↓														
80			↓														
81			↓														
82			↓														
83						X	X	X		X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Casas	6-15-01	1700	[signature]	6/15/01	1733
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	06/16/01	1600

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °
Log-in Review MA

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

FILE

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

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128674 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-6 (38-40')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **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	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	J	10	127.7	116.6	113.3

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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.

ANALYSIS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** TNM-98-05 **Sample Name:** MW-6 (38-40')	**Report#/Lab ID#:** 128674 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	109	50-150	---
p-Terphenyl	8015 mod.	87.9	50-150	---
1,2-Dichloroethane-d4	8260b	79.8	65-115	---
Toluene-d8	8260b	76.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128674 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-6 (38-40')

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128675 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-6 (43-45')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **Time:** 10:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	J	10	127.7	116.6	113.3

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-6 (43-45')

Report#/Lab ID#: 128675
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	105	50-150	---
p-Terphenyl	8015 mod.	79.7	50-150	---
1,2-Dichloroethane-d4	8260b	78.1	65-115	---
Toluene-d8	8260b	82.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128675 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-6 (43-45')

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes: _____

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128676 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-7 (38-40')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **Time:** 13:17

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	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	J	10	127.7	116.6	113.3

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** TNM-98-05 **Sample Name:** MW-7 (38-40')	**Report#/Lab ID#:** 128676 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	101	50-150	---
p-Terphenyl	8015 mod.	82.5	50-150	---
1,2-Dichloroethane-d4	8260b	81.8	65-115	---
Toluene-d8	8260b	82.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128676 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-7 (38-40')

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128677 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-7 (43-45')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **Time:** 13:23

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	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
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Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-7 (43-45')

Report#/Lab ID#: 128677
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	96.7	50-150	---
p-Terphenyl	8015 mod.	74.4	50-150	---
1,2-Dichloroethane-d4	8260b	78.4	65-115	---
Toluene-d8	8260b	79.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128677 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-7 (43-45')

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes: _____

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128678 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-8 (33-35')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **Time:** 15:02

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	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	J	10	127.7	116.6	113.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-8 (33-35')

Report#/Lab ID#: 128678
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	101	50-150	---
p-Terphenyl	8015 mod.	80.3	50-150	---
1,2-Dichloroethane-d4	8260b	99.2	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#: 128678 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-8 (33-35')

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
Toluene	J	See J-flag discussion above.

Notes:

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128679 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-8 (43-45')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/23/2002 **Time:** 15:09

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	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	J	10	127.7	116.6	113.3

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-8 (43-45')

Report#/Lab ID#: 128679
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	83.8	50-150	---
1,2-Dichloroethane-d4	8260b	78	65-115	---
Toluene-d8	8260b	72.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128679 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-8 (43-45')

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

AnalySys inc.

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128680 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-9 (23-25')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/24/2002 **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)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	11.9	116.2	106	101.3
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	88.8	94.5	91.2
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	2.6	94.3	100.5	96.7
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	1.6	87.8	93.2	90.5
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	---	10	127.7	116.6	113.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-9 (23-25')

Report#/Lab ID#: 128680
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	106	50-150	---
p-Terphenyl	8015 mod.	85.3	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	108	50-120	---

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

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128681 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-9 (43-45')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/24/2002 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	9.2	108.7	87.1	108.9
TPH by GC (as diesel-ext)	---	---	---	---	04/29/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/29/02	8015 mod.	---	5	99.7	76.6	101
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	8	84.1	93.2	83.6
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	5.4	97.9	97.8	100.6
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	4.4	102.5	94.7	106.8
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	6.3	100.8	96.6	103.1
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	---	10.5	85	83.4	87

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-9 (43-45')

Report#/Lab ID#: 128681
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	91.9	50-150	---
p-Terphenyl	8015 mod.	76.3	50-150	---
1,2-Dichloroethane-d4	8260b	113	65-115	---
Toluene-d8	8260b	118	50-120	---

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

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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128682 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-10 (33-35')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/24/2002 **Time:** 12:46

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	04/30/02	8015 mod.	---	0.8	103.8	109	80
TPH by GC (as diesel-ext)	---	---	---	---	04/30/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/30/02	8015 mod.	---	8.5	95.2	100.3	75.7
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	8	84.1	93.2	83.6
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	5.4	97.9	97.8	100.6
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	J	4.4	102.5	94.7	106.8
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	6.3	100.8	96.6	103.1
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	---	10.5	85	83.4	87

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-10 (33-35')

Report#/Lab ID#: 128682
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	104	50-150	---
p-Terphenyl	8015 mod.	70.1	50-150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	117	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 128682 **Matrix:** soil
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: TNM-98-05
Sample Name: MW-10 (33-35')

Sample Temperature/Condition <=6°C

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 128683 **Report Date:** 05/03/02
Project ID: TNM-98-05
Sample Name: MW-10 (43-45')
Sample Matrix: soil
Date Received: 04/26/2002 **Time:** 10:30
Date Sampled: 04/24/2002 **Time:** 12:53

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	04/30/02	8015 mod.	---	0.8	103.8	109	80
TPH by GC (as diesel-ext)	---	---	---	---	04/30/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	04/30/02	8015 mod.	---	8.5	95.2	100.3	75.7
Volatile organics-8260b/BTEX	---		---		05/01/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	8	84.1	93.2	83.6
Ethylbenzene	<20	µg/Kg	20	<20	05/01/02	8260b	---	5.4	97.9	97.8	100.6
m,p-Xylenes	<20	µg/Kg	20	<20	05/01/02	8260b	---	4.4	102.5	94.7	106.8
o-Xylene	<20	µg/Kg	20	<20	05/01/02	8260b	---	6.3	100.8	96.6	103.1
Toluene	<20	µg/Kg	20	<20	05/01/02	8260b	---	10.5	85	83.4	87

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.
4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM-98-05
Sample Name: MW-10 (43-45')

Report#/Lab ID#: 128683
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	101	50-150	---
p-Terphenyl	8015 mod.	69.7	50-150	---
1,2-Dichloroethane-d4	8260b	112	65-115	---
Toluene-d8	8260b	116	50-120	---

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

CHAIN-OF-CUSTODY

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

Send Reports To:
Company Name ETGI
Address 2540 W MARLAND
City HOBBS State NM Zip 88240
ATTN: KEN DUTTON
Phone (505) 397-4182 Fax (505) 397-4701

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: TNM-98-05 Sampler: ROBERT EIDSON

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH (8015 M GRO/DRO)	BTEX (8260 B)	Comments
MW-6(38-40')	4/23/02	10:20	1	X			128674	X	X	STANDARD T.A.T.
MW-6(43-45')	4/23/02	10:25	1	X			128675	X	X	
MW-7(38-40')	4/23/02	13:17	1	X			128676	X	X	
MW-7(43-45')	4/23/02	13:23	1	X			128677	X	X	
MW-8(33-35')	4/23/02	15:02	1	X			128678	X	X	
MW-8(43-45')	4/23/02	15:09	1	X			128679	X	X	
MW-9(23-25')	4/24/02	09:10	1	X			128680	X	X	
MW-9(43-45')	4/24/02	09:30	1	X			128681	X	X	
MW-10(33-35')	4/24/02	12:46	1	X			128682	X	X	
MW-10(43-45')	4/24/02	12:53	1	X			128683	X	X	

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

Temp: 0.0 °C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
	ETGI	4-25-02	14:25	Melanie Humphrey	ASI	4/26/02	10:30

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

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project:	TNM 98-05
Order#:	G0203315
Report Date:	05/13/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

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

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0203315-01	Excavation Walls	Soil	5/8/02 15:30	5/9/02 10:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 0 C		
	8015M					
	8021B/5030 BTEX					
0203315-02	Excavation Bottom	Soil	5/8/02 15:45	5/9/02 10:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 0 C		
	8015M					
	8021B/5030 BTEX					
0203315-03	Stockpile East	Soil	5/8/02 16:00	5/9/02 10:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 0 C		
	8015M					
	8021B/5030 BTEX					
0203315-04	Stockpile West	Soil	5/8/02 16:20	5/9/02 10:30	4 oz glass	Ice
	Lab Testing:	**Rejected:** No		**Temp:** 0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-01
Sample ID: Excavation Walls

8015M

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

Parameter	Result mg/kg	RL
DRO, >C12-C35	896	10.0
GRO, C6-C12	711	10.0
TOTAL, C6-C35	1607	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001667-02		5/9/02 22:00	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	275	25.0
Toluene	266	25.0
p/m-Xylene	492	25.0
o-Xylene	310	25.0

Lab ID: 0203315-02
Sample ID: Excavation Bottom

8015M

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

Parameter	Result mg/kg	RL
DRO, >C12-C35	35.3	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	35.3	10.0

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-02
Sample ID: Excavation Bottom

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001667-02		5/9/02	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	27.7	25.0
p/m-Xylene	58.2	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203315-03
Sample ID: Stockpile East

8015M

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

Parameter	Result mg/kg	RL
DRO, >C12-C35	1680	10.0
GRO, C6-C12	1540	10.0
TOTAL, C6-C35	3220	10.0

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-03
Sample ID: Stockpile East

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001667-02		5/9/02 22:44	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	243	25.0
Toluene	26.4	25.0
p/m-Xylene	513	25.0
o-Xylene	277	25.0

Lab ID: 0203315-04
Sample ID: Stockpile West

8015M

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

Parameter	Result mg/kg	RL
DRO, >C12-C35	1080	10.0
GRO, C6-C12	895	10.0
TOTAL, C6-C35	1975	10.0

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0203315
Project: EOT 2056C
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0203315-04
Sample ID: Stockpile West

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001667-02		5/9/02 23:06	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	137	25.0
Toluene	178	25.0
p/m-Xylene	318	25.0
o-Xylene	140	25.0

Approval: Celey D. Keene 5/13/02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

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

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203315

BLANK Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0001644-02			<10.0		
MS Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0203314-01	0	952	1170	122.9%	
MSD Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0203314-01	0	952	1010	106.1%	14.7%
SRM Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0001644-05		1000	1140	114.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203315

BLANK Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0001667-02			<25.0		
Ethylbenzene-µg/kg	0001667-02			<25.0		
Toluene-µg/kg	0001667-02			<25.0		
p/m-Xylene-µg/kg	0001667-02			<25.0		
o-Xylene-µg/kg	0001667-02			<25.0		
MS Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0203305-01	0	100	107	107.%	
Ethylbenzene-µg/kg	0203305-01	0	100	110	110.%	
Toluene-µg/kg	0203305-01	0	100	108	108.%	
p/m-Xylene-µg/kg	0203305-01	0	200	228	114.%	
o-Xylene-µg/kg	0203305-01	0	100	109	109.%	
MSD Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0203305-01	0	100	106	106.%	0.9%
Ethylbenzene-µg/kg	0203305-01	0	100	108	108.%	1.8%
Toluene-µg/kg	0203305-01	0	100	107	107.%	0.9%
p/m-Xylene-µg/kg	0203305-01	0	200	226	113.%	0.9%
o-Xylene-µg/kg	0203305-01	0	100	108	108.%	0.9%
SRM Soil	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0001667-05		100	112	112.%	
Ethylbenzene-µg/kg	0001667-05		100	112	112.%	
Toluene-µg/kg	0001667-05		100	114	114.%	
p/m-Xylene-µg/kg	0001667-05		200	229	114.5%	
o-Xylene-µg/kg	0001667-05		100	110	110.%	

Environmental Technology Group, Inc.
ETGI
Environmental Consulting & Remediation Services

For Use On **EOTT ENERGY CORP.** Projects Only

4600 West Wall
Midland, TX 79703
Tel (915) 522-1139
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2540 West Marland
Hobbs, NM 88242
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EOTT ENERGY CORP.
East Business 20
TX 79702
(915) 687-3400
(915) 582-2781

5805
Midland,
Tel
Fax

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: CAMILLE REYNOLDS
EOTT Leak Number:
Project Name: JNM 98-05
ETGI Project Number: EOT 2056C
Project Location: EUNICE, NM
Sampler Signature: Simon Casas

LAB # (Lab Use Only)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATION METHOD: HCL	HNO_3	$NaHSO_4$	ICE	NONE	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 418.1/TX 1005	TPH 8015M GRO/DRO	PAH 8270C (8100 New Mexico only)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/7470	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	Volatiles 8260B	Semi Volatiles 8270C	TDS 160.1	Cations/Anions 375.4/325.3
02.03315-01	EXCAVATION WALLS	1	40z		X						X		5-8-02	1530	X		X									
02	EXCAVATION BOTTOM													1545												
03	STOCKPILE EAST													1600												
04	STOCKPILE WEST													1620												

Relinquished by: Simon Casas Date: 5-9-02 Time: 1030
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Lab by: Jane Manning Date: 5-9-2 Time: 1030

REMARKS: Rec 0°C
INVOICE EOTT
FAX RESULTS TO HOBBS
RUSH

© Environmental Technology Group, Inc.

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project:	TNM 98-05
PO#:	EO2056
Order#:	G0205067
Report Date:	11/22/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

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

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0205067-01	Excavation S. Side Wall Comp	SOIL	11/14/02 16:09	11/19/02 17:15	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	**Rejected:** No		**Temp:** 2.0 C		
0205067-02	Excavation N. Side Wall Comp	SOIL	11/14/02 16:01	11/19/02 17:15	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	**Rejected:** No		**Temp:** 2.0 C		
0205067-03	Excavation W. Side Wall Comp	SOIL	11/14/02 13:48	11/19/02 17:15	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	**Rejected:** No		**Temp:** 2.0 C		
0205067-04	Excavation E. Side Wall Comp	SOIL	11/14/02 15:54	11/19/02 17:15	4 oz glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX	**Rejected:** No		**Temp:** 2.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-01
Sample ID: Excavation S. Side Wall Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	781	10.0
DRO, >C12-C35	4,900	10.0
TOTAL, C6-C35	5,681	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	132%	70	130
1-Chlorooctadecane	152%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003839-02		11/21/02 2:01	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	7.46	0.025
Toluene	0.885	0.025
p/m-Xylene	11.4	0.025
o-Xylene	6.04	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	110%	80	120
Bromofluorobenzene	121%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-02
Sample ID: Excavation N. Side Wall Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	20.8	10.0
DRO, >C12-C35	186	10.0
TOTAL, C6-C35	207	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	109%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003839-02		11/21/02 10:16	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.112	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.136	0.025
o-Xylene	0.072	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	101%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-03
Sample ID: Excavation W. Side Wall Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/21/02	1	1	CK	8015M

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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	114%	70	130
1-Chlorooctadecane	112%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003839-02		11/21/02 9:00	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	98%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067
Project: EO2056
Project Name: TNM 98-05
Location: Eunice, NM

Lab ID: 0205067-04
Sample ID: Excavation E. Side Wall Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/21/02	1	1	CK	8015M

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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	110%	70	130
1-Chlorooctadecane	104%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003844-02		11/21/02 18:23	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	88%	80	120

Approval: Raland K Tuttle 11-22-02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

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

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0205067

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003842-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003842-03		952	980	102.9%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003842-04		952	1070	112.4%	8.8%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0003842-05		1000	988	98.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205067

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003839-02			<0.025		
Benzene-mg/kg	0003844-02			<0.025		
Ethylbenzene-mg/kg	0003839-02			<0.025		
Ethylbenzene-mg/kg	0003844-02			<0.025		
Toluene-mg/kg	0003839-02			<0.025		
Toluene-mg/kg	0003844-02			<0.025		
p/m-Xylene-mg/kg	0003839-02			<0.025		
p/m-Xylene-mg/kg	0003844-02			<0.025		
o-Xylene-mg/kg	0003839-02			<0.025		
o-Xylene-mg/kg	0003844-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0205067-04	0	0.1	0.098	98.%	
Benzene-mg/kg	0205068-01	0	0.1	0.092	92.%	
Ethylbenzene-mg/kg	0205067-04	0	0.1	0.104	104.%	
Ethylbenzene-mg/kg	0205068-01	0	0.1	0.098	98.%	
Toluene-mg/kg	0205067-04	0	0.1	0.101	101.%	
Toluene-mg/kg	0205068-01	0	0.1	0.096	96.%	
p/m-Xylene-mg/kg	0205067-04	0	0.2	0.220	110.%	
p/m-Xylene-mg/kg	0205068-01	0	0.2	0.208	104.%	
o-Xylene-mg/kg	0205067-04	0	0.1	0.105	105.%	
o-Xylene-mg/kg	0205068-01	0	0.1	0.099	99.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0205067-04	0	0.1	0.096	96.%	2.1%
Benzene-mg/kg	0205068-01	0	0.1	0.094	94.%	2.2%
Ethylbenzene-mg/kg	0205067-04	0	0.1	0.102	102.%	1.9%
Ethylbenzene-mg/kg	0205068-01	0	0.1	0.100	100.%	2.%
Toluene-mg/kg	0205067-04	0	0.1	0.100	100.%	1.%
Toluene-mg/kg	0205068-01	0	0.1	0.097	97.%	1.%
p/m-Xylene-mg/kg	0205067-04	0	0.2	0.217	108.5%	1.4%
p/m-Xylene-mg/kg	0205068-01	0	0.2	0.211	105.5%	1.4%
o-Xylene-mg/kg	0205067-04	0	0.1	0.104	104.%	1.%
o-Xylene-mg/kg	0205068-01	0	0.1	0.100	100.%	1.%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003839-05		0.1	0.094	94.%	
Benzene-mg/kg	0003844-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0003839-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0003844-05		0.1	0.105	105.%	
Toluene-mg/kg	0003839-05		0.1	0.098	98.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205067

SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg	0003844-05		0.1	0.104	104.%	
p/m-Xylene-mg/kg	0003839-05		0.2	0.212	106.%	
p/m-Xylene-mg/kg	0003844-05		0.2	0.224	112.%	
o-Xylene-mg/kg	0003839-05		0.1	0.100	100.%	
o-Xylene-mg/kg	0003844-05		0.1	0.106	106.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0205067

Project: TNM 98-05

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

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Excavation S. Side	0205067-01	SOIL	11/14/2002	11/19/2002
Excavation N. Side	0205067-02	SOIL	11/14/2002	11/19/2002
Excavation W. Side	0205067-03	SOIL	11/14/2002	11/19/2002
Excavation E. Side	0205067-04	SOIL	11/14/2002	11/19/2002

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0205067-01)

Surrogate recoveries on the 8015 TPH are outside control limits due to matrix interference from coeluting compounds. (0205067-01)

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

Approved By: Rolanda Smith Date: 11-22-02

Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas, Inc.

COC #191 1 of 1

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Camille Reynolds
Company Name: ETGI
Company Address: 2540 W. Marlin
City/State/Zip: Hobbs/NM/88240
Telephone No: 505-397-4882
Fax No: 505-397-4701
Sampler Signature: for Camille Reynolds

Project Name: TNM 98-05
Project #: E02056
Project Loc: Eunice, NM
PO #:

Analyze For:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	TDS / EC / SAR / ESP	TSH 418.1	TPH TX 1005/1006	TPH 8015M GRO / DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Anions	Semivolatiles	TCLP: Volatiles / Semivolatiles	RUSH TAT Pre-Scheduled	Standard TAT
	~~S.E. Bloomers Comp~~	~~11/19/02~~	~~1452~~	~~1~~	~~X~~									~~X~~					~~X~~				~~X~~		~~X~~
	~~N.E. Bloomers Comp~~	~~11/19/02~~	~~1454~~	~~1~~	~~X~~									~~X~~					~~X~~				~~X~~		~~X~~
205067-01	Excavation S. Side Wall Comp	11-14-02	16:09	1	X									X					X				X		X
02	Excavation N. Side Wall Comp	11-14-02	1601	1	X									X					X				X		X
03	Excavation W. Side Wall Comp	11-14-02	1348	1	X									X					X				X		X
04	Excavation E. Side Wall Comp	11-14-02	1554	1	X									X					X				X		X

JMM as per R. Eidson

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.0 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	11/19/02	14:42		11-19-02	1442
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	11/19/02	1715	Joann McMurrey	11-19-02	1715

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project:	TNM 98-05
PO#:	
Order#:	G0306301
Report Date:	04/22/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0306301
Project: EO 2056
Project Name: TNM 98-05
Location: Lea County, NM

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

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306301-01	Excavation Bottom Comp.	SOIL	4/16/03 14:06	4/18/03 16:34	4 oz glass	Ice

Lab Testing: **Rejected:** No **Temp:** 6.0 C

8015M
8021B/5030 BTEX

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306301
Project: EO 2056
Project Name: TNM 98-05
Location: Lea County, NM

Lab ID: 0306301-01
Sample ID: Excavation Bottom Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/21/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	21.1	10.0
DRO, >C12-C35	232	10.0
TOTAL, C6-C35	253	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	126%	70	130
1-Chlorooctadecane	119%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005278-02		4/21/03 19:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.044	0.025
p/m-Xylene	0.106	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	97%	80	120

Approval: Raland K Tuttle 4-22-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

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

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306301

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005277-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005277-03		1000	921	92.1%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005277-04		1000	895	89.5%	2.9%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005277-05		1000	765	76.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306301

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005278-02			<0.025		
Toluene-mg/kg	0005278-02			<0.025		
Ethylbenzene-mg/kg	0005278-02			<0.025		
p/m-Xylene-mg/kg	0005278-02			<0.025		
o-Xylene-mg/kg	0005278-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0306309-02	0	0.1	0.108	108.%	
Toluene-mg/kg	0306309-02	0	0.1	0.105	105.%	
Ethylbenzene-mg/kg	0306309-02	0	0.1	0.102	102.%	
p/m-Xylene-mg/kg	0306309-02	0	0.2	0.211	105.5%	
o-Xylene-mg/kg	0306309-02	0	0.1	0.102	102.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0306309-02	0	0.1	0.099	99.%	8.7%
Toluene-mg/kg	0306309-02	0	0.1	0.096	96.%	9.%
Ethylbenzene-mg/kg	0306309-02	0	0.1	0.093	93.%	9.2%
p/m-Xylene-mg/kg	0306309-02	0	0.2	0.191	95.5%	10.%
o-Xylene-mg/kg	0306309-02	0	0.1	0.093	93.%	9.2%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005278-05		0.1	0.102	102.%	
Toluene-mg/kg	0005278-05		0.1	0.097	97.%	
Ethylbenzene-mg/kg	0005278-05		0.1	0.092	92.%	
p/m-Xylene-mg/kg	0005278-05		0.2	0.189	94.5%	
o-Xylene-mg/kg	0005278-05		0.1	0.092	92.%	

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Camille Reynolds
Company Name: ETGI
Company Address: 2540 W. Marland
City/State/Zip: Hobbs, nm 88240
Telephone No: (505) 397-4882
Fax No: (505) 397-4701
Sampler Signature: Camille Reynolds

Project Name: TNM 98-05
Project #: E02056
Project Loc: Lea County, nm
PO #:

LAB # (lab use only) 0306301	FIELD CODE	Date Sampled 2003	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (Specify)	Analyze For: TCLP / TOTAL: TDS / TCLP SVOA / TCLP VOA	TPH 418.1	TPH TX 1005/1006	TPH 8015M (GRO/DRO)	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030								RUSH TAT (Pre-Schedule)	Standard TAT
01	Excavation Bottom Comp.	4-16	1406	1	X									X					X				X									X

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments: 6.0 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Reynolds	4-18-03	1330	Elr Taylor	4/18/03	13:30
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	4/18/03	16:34	Jeanne McMurrey	4-18-03	1634

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310
FAX: 505-392-3760

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: EOT1026C
Project Name: TNM 98-05
Project Location: Eunice, N.M.

Sampling Date: 04/11/00
Receiving Date: 04/13/00
Analysis Date: 04/17/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
24828	GP1 001 4'	<10	<10
24829	GP1 002 7'	<10	<10
24830	GP1 003 10'	<10	<10
24831	GP1 004 13'	<10	<10
24832	GP2 001 4'	<10	<10
24833	GP2 002 7'	<10	<10
24834	GP2 003 10'	<10	<10
24835	GP2 004 13'	<10	<10
24836	GP2 005 16'	<10	<10
24837	GP3 001 4'	<10	<10
24838	GP3 002 7'	<10	<10
24839	GP3 003 10'	<10	<10
24840	GP3 004 13'	<10	<10
24841	GP3 005 16'	<10	<10
24842	GP4 001 4'	<10	<10
24843	GP4 002 7'	<10	<10
24844	GP4 003 10'	<10	<10
24845	GP4 004 13'	<10	<10
24846	GP4 005 16'	<10	<10
24847	GP4 006 17.5	<10	<10
24848	GP5 001 4'	<10	<10
24849	GP5 002 7'	<10	<10
24850	GP5 003 10'	<10	<10
24851	GP5 004 13'	<10	<10
	% INSTRUMENT ACCURACY	91	106
	% EXTRACTION ACCURACY	88	104
	BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

4-2000
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310
FAX: 505-392-3760

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: EOT1026C
Project Name: TNM 98-05
Project Location: Eunice, N.M.

Sampling Date: 04/11/00
Receiving Date: 04/13/00
Analysis Date: 04/18/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
24852	GP5 005 16'	<10	<10
24853	GP5 006 17.5'	<10	<10
24854	GP6 001 4'	43	<10
24855	GP6 002 7'	10944	15918
24856	GP6 003 10'	1231	2673
24857	GP6 004 13'	<10	89
24858	GP7 001 4'	3732	6777
24859	GP7 002 7'	4996	9368
24860	GP7 003 10'	3246	4762
24861	GP7 004 13'	1778	3649
24862	GP8 001 4'	<10	98
24863	GP8 002 7'	<10	50
24864	GP8 003 10'	<10	26
24865	GP8 004 13'	<10	<10
24866	GP9 001 4'	<10	<10
24867	GP9 002 7'	<10	<10
24868	GP9 003 10'	<10	<10
24869	GP9 004 13'	<10	<10
24870	GP10 001 4'	5357	12582
24871	GP10 002 7'	3110	6536
24872	GP10 003 10'	2774	4489
24873	GP10 004 13'	84	762
	% INSTRUMENT ACCURACY	88	122
	% EXTRACTION ACCURACY	109	122
	BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

4-20-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310
FAX: 505-392-3760

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: EOT1026C
Project Name: TNM 98-05
Project Location: Eunice, N.M.

Sampling Date: 04/11/00
Receiving Date: 04/13/00
Analysis Date: 04/19/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
24874	GP11 001 4'	5025	9095
24875	GP11 002 7'	3399	6924
24876	GP11 003 10'	728	1945
24877	GP11 004 13'	986	2419
24878	GP12 001 4'	<10	70
24879	GP12 002 7'	<10	<10
24880	GP12 003 10'	<10	<10
24881	GP12 004 13'	<10	<10
24882	GP13 001 4'	<10	<10
24883	GP13 002 7'	<10	<10
24884	GP13 003 10'	<10	<10
24885	GP13 004 13'	<10	<10
24886	GP14 001 4'	<10	<10
24887	GP14 002 7'	<10	<10
24888	GP14 003 10'	<10	<10
24889	GP14 004 13'	<10	<10
24890	GP15 001 4'	<10	<10
24891	GP15 002 7'	<10	<10
24892	GP15 003 10'	<10	<10
24893	GP15 004 13'	<10	<10
24894	GP16 001 4'	<10	<10
24895	GP16 002 7'	<10	<10
24896	GP16 003 10'	<10	<10
24897	GP16 004 13'	<10	<10
	% INSTRUMENT ACCURACY	94	106
	% EXTRACTION ACCURACY	84	85
	BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

4-2000
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor

Phone #: 915-664-9166

FAX #: 505-392-3760

Company Name & Address: ETOI

Project #: EOT1026c

Project Name: TNM 98-05

Project Location: Eunice NM

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH ~~418.1~~ 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24828	GP1 001 4'	4oz			X						X			4/11			X						
24829	GP1 002 7'	4oz			X						X			4/11			X						
24830	GP1 003 10'	4oz			X						X			4/11			X						
24831	GP1 004 13'	4oz			X						X			4/11			X						
24832	GP2 001 4'	4oz			X						X			4/11			X						
24833	GP2 002 7'	4oz			X						X			4/11			X						
24834	GP2 003 10'	4oz			X						X			4/11			X						
24835	GP2 004 13'	4oz			X						X			4/11			X						
24836	GP2 005 16'	4oz			X						X			4/11			X						
24837	GP3 001 4'	4oz			X						X			4/11			X						
24838	GP3 002 7'	4oz			X						X			4/11			X						

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	4/13/00	0855	
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS

FAX RESULTS ASAP

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor
Phone #: 915-664-9166
FAX #: 505-392-3760

Company Name & Address: ETGI

Project #: EOT 1024 C
Project Name: TNM 98-05

Project Location: EUNICE NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH ~~418.1~~ 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24839	GP3 003 10	4oz			X						X			4/11			X						
24840	GP3 004 13	4oz			X						X			4/11			X						
24841	GP3 005 16	4oz			X						X			4/11			X						
24842	GP4 001 4	4oz			X						X			4/11			X						
24843	GP4 002 7	4oz			X						X			4/11			X						
24844	GP4 003 10	4oz			X						X			4/11			X						
24845	GP4 004 13	4oz			X						X			4/11			X						
24846	GP4 005 16	4oz			X						X			4/11			X						
24847	GP4 006 17 1/2	4oz			X						X			4/11			X						
24848	GP5 001 4	4oz			X						X			4/11			X						
24849	GP5 002 7	4oz			X						X			4/11			X						

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Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS:

FAX RESULTS

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79765
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor	**Phone #:** 915-664-9166 **FAX #:** 505-392-3760
Company Name & Address: ETGI	
Project #: EOT1026C	**Project Name:** TNM 98-05
Project Location: Eunice NM	**Sampler Signature:**

LAB # (LAB USE ONLY)	FIELD CODE		# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH 418.1 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24850	GP5 - 003	10'	4oz			X						X			4/11			X						
24851	GP5 - 004	13'																						
24852	GP5 - 005	16'																						
24853	GP5 - 006	17½'																						
24854	GP6 - 001	4'																						
24855	GP6 - 002	7'																						
24856	GP6 - 003	10'																						
24857	GP6 - 004	13'																						
24858	GP7 - 001	4'																						
24859	GP7 - 002	7'																						
24860	GP7 - 003	10'																						

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	4/13/00	0855	
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS

FAX RESULTS ASAP!

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79765
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor
Phone #: 915-664-9166
FAX #: 505-392-3760

Company Name & Address: ETGT

Project #: EOT10216C
Project Name: TNM 98-05

Project Location: Eunice NM
Sampler Signature: Justin Jam

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH ~~418.1~~ 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24861	GP7-004 13'	4oz			X						X			4/12			X						
24862	GP8-001 4'													4/11									
24863	GP8-002 7'													4/11									
24864	GP8-003 10'													4/11									
24865	GP8-004 13'													4/11									
24866	GP9-001 4													4/12									
24867	GP9-002 7																						
24868	GP9 003 10																						
24869	GP9 004 13																						
24870	GP10-001 4'																						
24871	GP10-002 7'																						

Relinquished by:	Date:	Time:	Received by:
Justin Jam	4/13/00	0855	Rebecca Ford
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: FAX RESULTS ASAP!

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor

Phone #: 915-664-9166

FAX #: 505-392-3760

Company Name & Address: ET&T

Project #: EOT1026C

Project Name: TNM 98-05

Project Location: Eunice NM

Sampler Signature: [signature]

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8020/5030	TPH ~~418.1~~ 80.15 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24872	GP10-003 10'	4oz			X						X			4/12			X						
24873	GP10-004 13'	↓			↓						↓			↓			↓						
24874	GP11-001 4'	↓			↓						↓			↓			↓						
24875	GP11-002 7'	↓			↓						↓			↓			↓						
24876	GP11-003 10'	↓			↓						↓			↓			↓						
24877	GP11-004 13'	↓			↓						↓			↓			↓						
24878	GP12-001 4'	↓			↓						↓			↓			↓						
24879	GP12-002 7'	↓			↓						↓			↓			↓						
24880	GP12-003 10'	↓			↓						↓			↓			↓						
24881	GP12-004 13'	↓			↓						↓			↓			↓						
24882	GP13-001 4'	↓			↓						↓			↓			↓						

Relinquished by:	Date:	Time:	Received by:
[signature]	4/13/00	~~0~~855	[signature: Roland Judd]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS

FAX RESULTS

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor	**Phone #:** 915-664-9144 **FAX #:** 505-392-3760
Company Name & Address: ETOI	
Project #: EOT102161C	**Project Name:** JNM 98-05
Project Location: Eunice NM	**Sampler Signature:** Jesse Taylor

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HOHE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH ~~418.1~~ 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24883	GP13 - 002 7'	4oz			X						X			4/12			X						
24884	GP13 - 003 10'													4/12									
24885	GP13 - 004 13'													4/12									
24886	GP14 - 001 4'													4/12									
24887	GP14 - 002 7'													4/12									
24888	GP14 - 003 10'													4/12									
24889	GP14 - 004 13'													4/12									
24890	GP15 - 001 4'													4/12									
24891	GP15 - 002 7'													4/12									
24892	GP15 - 003 10'													4/12									
24893	GP15 - 004 13'													4/12									

Relinquished by: Jesse Taylor	**Date:** 4/13/00	**Times:** 0855	**Received by:**
Relinquished by:	**Date:**	**Times:**	**Received by:**
Relinquished by:	**Date:**	**Times:**	**Received by Laboratory:**

REMARKS

FAX RESULTS ASAP

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jesse Taylor

Phone #: 915-664-9166

FAX #: 505-392-3760

Company Name & Address: ETGI

Project #: EOT 1026C

Project Name: TNM 98-05

Project Location: Eunice NM

Sampler Signature: [signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8020/5030	TPH ~~418.1~~ 80.15 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
24894	GP16-001 4'	4oz			X						X			4/12			X						
24895	GP16-002 7'	4oz			X						X			4/12			X						
24896	GP16-003 10'	4oz			X						X			4/12			X						
24897	GP16-004 13'	4oz			X						X			4/12			X						

Relinquished by:	Date:	Time:	Received by:
[signature]	4/13/00	0855	[signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS

FAX RESULTS ASAP!

Analytical and Quality Control Report

Craig Eschberger
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 7, 2004

Work Order: 4113008

Project Location: Lea County
Project Name: TNM 98-05
Project Number: TNM 98-05

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49254	ESP A	soil	2004-11-26	12:00	2004-11-30
49255	ESP B	soil	2004-11-26	12:05	2004-11-30
49256	ESP C	soil	2004-11-26	12:10	2004-11-30
49257	ESP D	soil	2004-11-26	12:15	2004-11-30
49258	ESP E	soil	2004-11-26	12:20	2004-11-30
49259	ESP F	soil	2004-11-26	12:25	2004-11-30
49260	ESP G	soil	2004-11-26	12:30	2004-11-30
49261	ESP H	soil	2004-11-26	12:35	2004-11-30
49262	West SP	soil	2004-11-26	00:00	2004-11-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 49254 - ESP A

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	10	0.00100
Toluene		0.0634		mg/Kg	10	0.00100
Ethylbenzene		<0.0100		mg/Kg	10	0.00100
Xylene		0.0114		mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49254 - ESP A

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		142	mg/Kg	1	150	95	69.8 - 106.1

Sample: 49254 - ESP A

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.831	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49255 - ESP B

Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035
QC Batch: 14400 | Date Analyzed: 2004-12-02 | Analyzed By: MS
Prep Batch: 12722 | Date Prepared: 2004-12-02 | Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.199	mg/Kg	10	0.00100
Ethylbenzene		0.0117	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.819	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.847	mg/Kg	10	0.100	85	63.1 - 105

Sample: 49255 - ESP B

Analysis: TPH DRO | Analytical Method: Mod. 8015B | Prep Method: N/A
QC Batch: 14356 | Date Analyzed: 2004-11-30 | Analyzed By: BP
Prep Batch: 12682 | Date Prepared: 2004-11-30 | Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	171	mg/Kg	1	150	114	69.8 - 106.1

Sample: 49255 - ESP B

Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035
QC Batch: 14401 | Date Analyzed: 2004-12-02 | Analyzed By: MS
Prep Batch: 12722 | Date Prepared: 2004-12-02 | Prepared By: MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	10	0.100	94	0 - 174

Sample: 49256 - ESP C

Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5035
QC Batch: 14400 | Date Analyzed: 2004-12-02 | Analyzed By: MS
Prep Batch: 12722 | Date Prepared: 2004-12-02 | Prepared By: MS

[1] Surrogate recovery out of control chart range but within method limits.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.260	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0105	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.842	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.925	mg/Kg	10	0.100	92	63.1 - 105

Sample: 49256 - ESP C

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		137	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49256 - ESP C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.860	mg/Kg	10	0.100	86	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49257 - ESP D

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.114	mg/Kg	10	0.00100

continued ...

sample 49257 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.804	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.845	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49257 - ESP D

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		140	mg/Kg	1	150	94	69.8 - 106.1

Sample: 49257 - ESP D

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49258 - ESP E

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0835	mg/Kg	10	0.00100

continued ...

sample 49258 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.914	mg/Kg	10	0.100	91	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.914	mg/Kg	10	0.100	91	63.1 - 105

Sample: 49258 - ESP E

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	69.8 - 106.1

Sample: 49258 - ESP E

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.913	mg/Kg	10	0.100	91	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49259 - ESP F

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

continued ...

sample 49259 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[2]	<0.0500	mg/Kg	50	0.00100
Toluene		0.258	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[3]	0.735	mg/Kg	50	0.100	15	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[4]	0.913	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49259 - ESP F

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		128	mg/Kg	1	150	86	69.8 - 106.1

Sample: 49259 - ESP F

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[5]	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.705	mg/Kg	50	0.100	14	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Sample: 49260 - ESP G

[2]Sample diluted due to surfactant content.
[3]Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[4]Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[5]Sample diluted due to surfactants.

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14435	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[6]	<0.100	mg/Kg	100	0.00100
Toluene		0.560	mg/Kg	100	0.00100
Ethylbenzene		<0.100	mg/Kg	100	0.00100
Xylene		<0.100	mg/Kg	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[7]	0.715	mg/Kg	100	0.100	7	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[8]	0.877	mg/Kg	100	0.100	9	63.1 - 105

Sample: 49260 - ESP G

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		109	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	69.8 - 106.1

Sample: 49260 - ESP G

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14437	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[9]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.680	mg/Kg	100	0.100	7	0 - 160
4-Bromofluorobenzene (4-BFB)		0.950	mg/Kg	100	0.100	10	0 - 174

Sample: 49261 - ESP H

[6]Diluted due to surfactant content.
[7]Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[8]Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[9]Sample diluted due to surfactant content.

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14435	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0626	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0164	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.794	mg/Kg	10	0.100	79	63.1 - 105

Sample: 49261 - ESP H

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		133	mg/Kg	1	150	89	69.8 - 106.1

Sample: 49261 - ESP H

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14437	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	10	0.100	126	0 - 160
4-Bromofluorobenzene (4-BFB)		0.894	mg/Kg	10	0.100	89	0 - 174

Sample: 49262 - West SP

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[10]	<0.0500	mg/Kg	50	0.00100
Toluene		0.297	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[11]	0.823	mg/Kg	50	0.100	16	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[12]	0.915	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49262 - West SP

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		73.9	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		136	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49262 - West SP

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[13]	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	50	0.100	16	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Method Blank (1) QC Batch: 14356

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

[10] Sample diluted due to surfactant content.
[11] Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[12] Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[13] Sample diluted due to surfactants.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		141	mg/Kg	1	150	94	69.8 - 106.1

Method Blank (1) QC Batch: 14400

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	10	0.100	101	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.716	mg/Kg	10	0.100	72	36.6 - 112

Method Blank (1) QC Batch: 14401

Parameter	Flag	Result	Units	RL
GRO		2.11	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	10	0.100	103	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.729	mg/Kg	10	0.100	73	50.7 - 113

Method Blank (1) QC Batch: 14435

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.990	mg/Kg	10	0.100	99	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.698	mg/Kg	10	0.100	70	36.6 - 112

Method Blank (1) QC Batch: 14437

Parameter	Flag	Result	Units	RL
GRO		<1.00	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	10	0.100	104	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.779	mg/Kg	10	0.100	78	50.7 - 113

Laboratory Control Spike (LCS-1) QC Batch: 14356

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	236	233	mg/Kg	1	250	<12.0	94	1	78.7 - 117.6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	132	128	mg/Kg	1	150	88	85	69.8 - 106.1

Laboratory Control Spike (LCS-1) QC Batch: 14400

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.938	0.969	mg/Kg	10	0.100	<0.0333	94	3	79.8 - 114	9.4
Toluene	0.974	0.978	mg/Kg	10	0.100	<0.0353	97	0	79.7 - 115	7.5
Ethylbenzene	0.993	0.989	mg/Kg	10	0.100	<0.0339	99	0	78.7 - 116	8
Xylene	2.80	2.78	mg/Kg	10	0.300	<0.103	93	1	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.960	1.05	mg/Kg	10	0.100	96	105	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.926	0.944	mg/Kg	10	0.100	93	94	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14401

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.64	11.3	mg/Kg	10	1.00	<0.381	96	16	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.934	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.984	1.02	mg/Kg	10	0.100	98	102	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 14435

continued ...

control spikes continued ...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.978	0.956	mg/Kg	10	0.100	<0.0333	98	2	79.8 - 114	9.4
Toluene	0.958	0.937	mg/Kg	10	0.100	<0.0353	96	2	79.7 - 115	7.5
Ethylbenzene	0.990	0.968	mg/Kg	10	0.100	<0.0339	99	2	78.7 - 116	8
Xylene	2.78	2.72	mg/Kg	10	0.300	<0.103	93	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.992	mg/Kg	10	0.100	101	99	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.954	0.933	mg/Kg	10	0.100	95	93	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14437

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.55	9.96	mg/Kg	10	1.00	<0.381	96	4	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.927	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.994	0.991	mg/Kg	10	0.100	99	99	72.2 - 119

Matrix Spike (MS-1) QC Batch: 14356 Spiked Sample: 49259

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	[14]	295	253	mg/Kg	1	250	<12.0	118	15	67.7 - 110.5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	[15]	163	134	mg/Kg	1	150	109	89	69.8 - 106.1

Matrix Spike (MS-1) QC Batch: 14400 Spiked Sample: 49254

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[16][17]	0.818	0.676	mg/Kg	10	0.100	<0.0333	82	19	63.5 - 98.6	12
Toluene		0.889	0.710	mg/Kg	10	0.100	<0.0353	89	22	65.8 - 102	11.4

continued ...

[14] Spike recovery out of control chart range but within method limits.
[15] Surrogate recovery out of control chart range but within method limits.
[16] RPD out. LCS/LCSD show the analysis to be in control.
[17] RPD out. LCS/LCSD show the analysis to be in control.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Ethylbenzene	0.891	0.730	mg/Kg	10	0.100	<0.0339	89	20	66.6 - 106	10.5
Xylene	2.52	2.05	mg/Kg	10	0.300	<0.103	84	20	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.859	0.727	mg/Kg	10	0.1	86	73	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.919	0.744	mg/Kg	10	0.1	92	74	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14401 Spiked Sample: 49254

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.1	14.2	mg/Kg	10	1.00	<0.381	121	16	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.09	1.43	mg/Kg	10	0.1	109	143	0 - 160
4-Bromofluorobenzene (4-BFB)	1.06	1.02	mg/Kg	10	0.1	106	102	0 - 174

Matrix Spike (MS-1) QC Batch: 14435 Spiked Sample: 49466

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.794	0.839	mg/Kg	10	0.100	<0.0333	79	6	63.5 - 98.6	12
Toluene	0.838	0.852	mg/Kg	10	0.100	<0.0353	83	2	65.8 - 102	11.4
Ethylbenzene	0.891	0.900	mg/Kg	10	0.100	<0.0339	89	1	66.6 - 106	10.5
Xylene	2.52	2.57	mg/Kg	10	0.300	<0.103	84	2	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.853	0.807	mg/Kg	10	0.1	85	81	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.908	0.946	mg/Kg	10	0.1	91	95	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14437 Spiked Sample: 49261

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.5	12.2	mg/Kg	10	1.00	0.649	108	6	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	1.08	mg/Kg	10	0.1	101	108	0 - 160

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.960	1.02	mg/Kg	10	0.1	96	102	0 - 174

Standard (ICV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	294	118	75 - 125	2004-11-30

Standard (CCV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	75 - 125	2004-11-30

Standard (CCV-2) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	75 - 125	2004-11-30

Standard (ICV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0975	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.02	102	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.09	109	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0963	96	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0993	99	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.280	93	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0950	95	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0953	95	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2004-12-03

Standard (ICV-1) QC Batch: 14437

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.978	98	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14437

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.992	99	85 - 115	2004-12-03

Page 1 of 1

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1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4113008

Company Name: PLAINS
Phone #:
Address: (Street, City, Zip) HOUSTON
Fax #:
Contact Person:
Invoice to: (If different from above)
Project #: TNM 98-05
Project Name: TNM 98-05
Project Location: Lea County
Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE (2004)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH ~~418.1/TX1005~~ mod 8015 (DRO-GRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard	Hold
49254	ESP A	1	4oz		X							X		11/26	12:00		X	X														
55	ESP B	1													12:05		X	X														
56	ESP C	1													12:10		X	X														
57	ESP D	1													12:15		X	X														
58	ESP E	1													12:20		X	X														
59	ESP F	1													12:25		X	X														
60	ESP G	1													12:30		X	X														
61	ESP H	1													12:35		X	X														
62	West SP	1															X	X														

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	11/29/04	1645	Helen Shelton	11/29/04	1645
Helen Shelton	11/29/04	1730			
			Received at Laboratory by: [signature]	11.30.04	9:13

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°
Log-in Review [initials]
Carrier # Lone Star/ [illegible] 812003857

REMARKS:
Please CC - Reports to
C Eschberger @ NOVATraining
CC

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 9 samples HS

ORIGINAL COPY

Summary Report

Craig Eschberger
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 7, 2004

Work Order: 4113008

Project Location: Lea County
Project Name: TNM 98-05
Project Number: TNM 98-05

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49254	ESP A	soil	2004-11-26	12:00	2004-11-30
49255	ESP B	soil	2004-11-26	12:05	2004-11-30
49256	ESP C	soil	2004-11-26	12:10	2004-11-30
49257	ESP D	soil	2004-11-26	12:15	2004-11-30
49258	ESP E	soil	2004-11-26	12:20	2004-11-30
49259	ESP F	soil	2004-11-26	12:25	2004-11-30
49260	ESP G	soil	2004-11-26	12:30	2004-11-30
49261	ESP H	soil	2004-11-26	12:35	2004-11-30
49262	West SP	soil	2004-11-26	00:00	2004-11-30

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
49254 - ESP A	<0.0100	0.0634	<0.0100	0.0114	<50.0	<1.00
49255 - ESP B	<0.0100	0.199	0.0117	<0.0100	<50.0	<1.00
49256 - ESP C	<0.0100	0.260	<0.0100	0.0105	<50.0	<1.00
49257 - ESP D	<0.0100	0.114	<0.0100	<0.0100	<50.0	<1.00
49258 - ESP E	<0.0100	0.0835	<0.0100	<0.0100	<50.0	<1.00
49259 - ESP F	<0.0500	0.258	<0.0500	<0.0500	<50.0	<5.00
49260 - ESP G	<0.100	0.560	<0.100	<0.100	109	<10.0
49261 - ESP H	<0.0100	0.0626	<0.0100	0.0164	<50.0	<1.00
49262 - West SP	<0.0500	0.297	<0.0500	<0.0500	73.9	<5.00

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Craig Eschberger
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 7, 2004

Work Order: 4113008

Project Location: Lea County
Project Name: TNM 98-05
Project Number: TNM 98-05

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49254	ESP A	soil	2004-11-26	12:00	2004-11-30
49255	ESP B	soil	2004-11-26	12:05	2004-11-30
49256	ESP C	soil	2004-11-26	12:10	2004-11-30
49257	ESP D	soil	2004-11-26	12:15	2004-11-30
49258	ESP E	soil	2004-11-26	12:20	2004-11-30
49259	ESP F	soil	2004-11-26	12:25	2004-11-30
49260	ESP G	soil	2004-11-26	12:30	2004-11-30
49261	ESP H	soil	2004-11-26	12:35	2004-11-30
49262	West SP	soil	2004-11-26	00:00	2004-11-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 49254 - ESP A

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0634	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0114	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49254 - ESP A

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		142	mg/Kg	1	150	95	69.8 - 106.1

Sample: 49254 - ESP A

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.831	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49255 - ESP B

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.199	mg/Kg	10	0.00100
Ethylbenzene		0.0117	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.819	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.847	mg/Kg	10	0.100	85	63.1 - 105

Sample: 49255 - ESP B

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	171	mg/Kg	1	150	114	69.8 - 106.1

Sample: 49255 - ESP B

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	10	0.100	94	0 - 174

Sample: 49256 - ESP C

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

[1] Surrogate recovery out of control chart range but within method limits.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.260	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0105	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.842	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.925	mg/Kg	10	0.100	92	63.1 - 105

Sample: 49256 - ESP C

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		137	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49256 - ESP C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.860	mg/Kg	10	0.100	86	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49257 - ESP D

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.114	mg/Kg	10	0.00100

continued ...

sample 49257 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.804	mg/Kg	10	0.100	80	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.845	mg/Kg	10	0.100	84	63.1 - 105

Sample: 49257 - ESP D

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		140	mg/Kg	1	150	94	69.8 - 106.1

Sample: 49257 - ESP D

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.833	mg/Kg	10	0.100	83	0 - 160
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	10	0.100	94	0 - 174

Sample: 49258 - ESP E

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0835	mg/Kg	10	0.00100

continued ...

sample 49258 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.914	mg/Kg	10	0.100	91	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.914	mg/Kg	10	0.100	91	63.1 - 105

Sample: 49258 - ESP E

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	69.8 - 106.1

Sample: 49258 - ESP E

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.913	mg/Kg	10	0.100	91	0 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	0 - 174

Sample: 49259 - ESP F

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

continued ...

sample 49259 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[2]	<0.0500	mg/Kg	50	0.00100
Toluene		0.258	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[3]	0.735	mg/Kg	50	0.100	15	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[4]	0.913	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49259 - ESP F

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		128	mg/Kg	1	150	86	69.8 - 106.1

Sample: 49259 - ESP F

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[5]	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.705	mg/Kg	50	0.100	14	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Sample: 49260 - ESP G

[2]Sample diluted due to surfactant content.
[3]Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[4]Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[5]Sample diluted due to surfactants.

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14435	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[6]	<0.100	mg/Kg	100	0.00100
Toluene		0.560	mg/Kg	100	0.00100
Ethylbenzene		<0.100	mg/Kg	100	0.00100
Xylene		<0.100	mg/Kg	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[7]	0.715	mg/Kg	100	0.100	7	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[8]	0.877	mg/Kg	100	0.100	9	63.1 - 105

Sample: 49260 - ESP G

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		109	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	69.8 - 106.1

Sample: 49260 - ESP G

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14437	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[9]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.680	mg/Kg	100	0.100	7	0 - 160
4-Bromofluorobenzene (4-BFB)		0.950	mg/Kg	100	0.100	10	0 - 174

Sample: 49261 - ESP H

[6]Diluted due to surfactant content.
[7]Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[8]Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[9]Sample diluted due to surfactant content.

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14435	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		0.0626	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0164	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.794	mg/Kg	10	0.100	79	63.1 - 105

Sample: 49261 - ESP H

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		133	mg/Kg	1	150	89	69.8 - 106.1

Sample: 49261 - ESP H

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14437	Date Analyzed:	2004-12-03	Analyzed By:	MS
Prep Batch:	12753	Date Prepared:	2004-12-03	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	10	0.100	126	0 - 160
4-Bromofluorobenzene (4-BFB)		0.894	mg/Kg	10	0.100	89	0 - 174

Sample: 49262 - West SP

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14400	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[10]	<0.0500	mg/Kg	50	0.00100
Toluene		0.297	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[11]	0.823	mg/Kg	50	0.100	16	60.1 - 104
4-Bromofluorobenzene (4-BFB)	[12]	0.915	mg/Kg	50	0.100	18	63.1 - 105

Sample: 49262 - West SP

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14356	Date Analyzed:	2004-11-30	Analyzed By:	BP
Prep Batch:	12682	Date Prepared:	2004-11-30	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		73.9	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		136	mg/Kg	1	150	91	69.8 - 106.1

Sample: 49262 - West SP

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14401	Date Analyzed:	2004-12-02	Analyzed By:	MS
Prep Batch:	12722	Date Prepared:	2004-12-02	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[13]	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	50	0.100	16	0 - 160
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	50	0.100	20	0 - 174

Method Blank (1) QC Batch: 14356

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

[10]Sample diluted due to surfactant content.
[11]Low TFT surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[12]Low BFB surrogate recovery due to matrix interference. ICV/CCV surrogate recovery shows the method to be in control.
[13]Sample diluted due to surfactants.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		141	mg/Kg	1	150	94	69.8 - 106.1

Method Blank (1) QC Batch: 14400

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	10	0.100	101	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.716	mg/Kg	10	0.100	72	36.6 - 112

Method Blank (1) QC Batch: 14401

Parameter	Flag	Result	Units	RL
GRO		2.11	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	10	0.100	103	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.729	mg/Kg	10	0.100	73	50.7 - 113

Method Blank (1) QC Batch: 14435

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.990	mg/Kg	10	0.100	99	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.698	mg/Kg	10	0.100	70	36.6 - 112

Method Blank (1) QC Batch: 14437

Parameter	Flag	Result	Units	RL
GRO		<1.00	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	10	0.100	104	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.779	mg/Kg	10	0.100	78	50.7 - 113

Laboratory Control Spike (LCS-1) QC Batch: 14356

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	236	233	mg/Kg	1	250	<12.0	94	1	78.7 - 117.6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	132	128	mg/Kg	1	150	88	85	69.8 - 106.1

Laboratory Control Spike (LCS-1) QC Batch: 14400

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.938	0.969	mg/Kg	10	0.100	<0.0333	94	3	79.8 - 114	9.4
Toluene	0.974	0.978	mg/Kg	10	0.100	<0.0353	97	0	79.7 - 115	7.5
Ethylbenzene	0.993	0.989	mg/Kg	10	0.100	<0.0339	99	0	78.7 - 116	8
Xylene	2.80	2.78	mg/Kg	10	0.300	<0.103	93	1	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.960	1.05	mg/Kg	10	0.100	96	105	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.926	0.944	mg/Kg	10	0.100	93	94	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14401

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.64	11.3	mg/Kg	10	1.00	<0.381	96	16	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.934	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.984	1.02	mg/Kg	10	0.100	98	102	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 14435

continued ...

control spikes continued...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.978	0.956	mg/Kg	10	0.100	<0.0333	98	2	79.8 - 114	9.4
Toluene	0.958	0.937	mg/Kg	10	0.100	<0.0353	96	2	79.7 - 115	7.5
Ethylbenzene	0.990	0.968	mg/Kg	10	0.100	<0.0339	99	2	78.7 - 116	8
Xylene	2.78	2.72	mg/Kg	10	0.300	<0.103	93	2	78.7 - 118	7.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.992	mg/Kg	10	0.100	101	99	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.954	0.933	mg/Kg	10	0.100	95	93	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14437

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.55	9.96	mg/Kg	10	1.00	<0.381	96	4	72 - 124	21

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.927	0.905	mg/Kg	10	0.100	93	90	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.994	0.991	mg/Kg	10	0.100	99	99	72.2 - 119

Matrix Spike (MS-1) QC Batch: 14356 Spiked Sample: 49259

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO [14]	295	253	mg/Kg	1	250	<12.0	118	15	67.7 - 110.5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane [15]	163	134	mg/Kg	1	150	109	89	69.8 - 106.1

Matrix Spike (MS-1) QC Batch: 14400 Spiked Sample: 49254

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene [16][17]	0.818	0.676	mg/Kg	10	0.100	<0.0333	82	19	63.5 - 98.6	12
Toluene	0.889	0.710	mg/Kg	10	0.100	<0.0353	89	22	65.8 - 102	11.4

continued...

[14] Spike recovery out of control chart range but within method limits.
[15] Surrogate recovery out of control chart range but within method limits.
[16] RPD out. LCS/LCSD show the analysis to be in control.
[17] RPD out. LCS/LCSD show the analysis to be in control.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Ethylbenzene	0.891	0.730	mg/Kg	10	0.100	<0.0339	89	20	66.6 - 106	10.5
Xylene	2.52	2.05	mg/Kg	10	0.300	<0.103	84	20	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.859	0.727	mg/Kg	10	0.1	86	73	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.919	0.744	mg/Kg	10	0.1	92	74	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14401 Spiked Sample: 49254

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.1	14.2	mg/Kg	10	1.00	<0.381	121	16	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.09	1.43	mg/Kg	10	0.1	109	143	0 - 160
4-Bromofluorobenzene (4-BFB)	1.06	1.02	mg/Kg	10	0.1	106	102	0 - 174

Matrix Spike (MS-1) QC Batch: 14435 Spiked Sample: 49466

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.794	0.839	mg/Kg	10	0.100	<0.0333	79	6	63.5 - 98.6	12
Toluene	0.838	0.852	mg/Kg	10	0.100	<0.0353	83	2	65.8 - 102	11.4
Ethylbenzene	0.891	0.900	mg/Kg	10	0.100	<0.0339	89	1	66.6 - 106	10.5
Xylene	2.52	2.57	mg/Kg	10	0.300	<0.103	84	2	67.4 - 108	10.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.853	0.807	mg/Kg	10	0.1	85	81	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.908	0.946	mg/Kg	10	0.1	91	95	63.1 - 105

Matrix Spike (MS-1) QC Batch: 14437 Spiked Sample: 49261

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.5	12.2	mg/Kg	10	1.00	0.649	108	6	0 - 182	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	1.08	mg/Kg	10	0.1	101	108	0 - 160

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.960	1.02	mg/Kg	10	0.1	96	102	0 - 174

Standard (ICV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	294	118	75 - 125	2004-11-30

Standard (CCV-1) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	75 - 125	2004-11-30

Standard (CCV-2) QC Batch: 14356

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	75 - 125	2004-11-30

Standard (ICV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0975	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14400

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0989	99	85 - 115	2004-12-02
Toluene		mg/Kg	0.100	0.0983	98	85 - 115	2004-12-02
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2004-12-02
Xylene		mg/Kg	0.300	0.285	95	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.02	102	85 - 115	2004-12-02

Standard (CCV-1) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-12-02

Standard (CCV-2) QC Batch: 14401

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.09	109	85 - 115	2004-12-02

Standard (ICV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0963	96	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0993	99	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.280	93	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14435

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0950	95	85 - 115	2004-12-03
Toluene		mg/Kg	0.100	0.0953	95	85 - 115	2004-12-03
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2004-12-03
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2004-12-03

Standard (ICV-1) QC Batch: 14437

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.978	98	85 - 115	2004-12-03

Standard (CCV-1) QC Batch: 14437

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.992	99	85 - 115	2004-12-03

Page 1 of 1

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4113008

Company Name: PLAINS
Phone #:
Address: (Street, City, Zip) HOUSTON
Fax #:
Contact Person:
Invoice to: (If different from above)
Project #: TNM 98-05
Project Name: TNM 98-05
Project Location: Lea County
Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2004)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH ~~418.1/TX1005~~ mod 8015 (DRO-GRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
49254	ESP A	1	4oz		X							X		11/26	12:10		X	X														
55	ESP B	1													12:05		X	X														
56	ESP C	1													12:10		X	X														
57	ESP D	1													12:15		X	X														
58	ESP E	1													12:20		X	X														
59	ESP F	1													12:25		X	X														
60	ESP G	1													12:30		X	X														
61	ESP H	1													12:35		X	X														
62	West SP	1															X	X														

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	11/29/04	1645	Helen Shelton	11/29/04	1645
Helen Shelton	11/29/04	1730			
			Received at Laboratory by: Vicki [signature]	11-30-04	9:13

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Log-in Review [initials]
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REMARKS:
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4113008

Company Name: Plains
Phone #:
Address: (Street, City, Zip) Houston
Fax #:
Contact Person:
Invoice to: (If different from above)
Project #: TNM 98-05
Project Name: TNM 98-05
Project Location: Lea County
Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE: HCl	PRESERVATIVE: HNO₃	PRESERVATIVE: H₂SO₄	PRESERVATIVE: NaOH	PRESERVATIVE: ICE	PRESERVATIVE: NONE	SAMPLING: DATE (2004)	SAMPLING: TIME	MTBE 8021B/602	BTEX 8021B/602	~~TPH 418.1/TX1005~~ MOD 8015 (DRO-GRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
49254	ESP A	1	4oz		X							X		11/26	12:10		X	X														
55	ESP B	1													12:05		X	X														
56	ESP C	1													12:10		X	X														
57	ESP D	1													12:15		X	X														
58	ESP E	1													12:20		X	X														
59	ESP F	1													12:25		X	X														
60	ESP G	1													12:30		X	X														
61	ESP H	1													12:35		X	X														
62	West SP	1															X	X														

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	11/29/04	1645	Helen Shelton	11/29/04	1645
Helen Shelton	11/29/04	1730			
			Received at Laboratory by: Vicki [signature]	11:30:04	9:13

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in Review [initials]

REMARKS:
Please CC - Reports to
CEschberger@NovaTraining
CC

☐ Check If Special Reporting Limits Are Needed

12/7 Gp

Carrier # Lone Star/Ext 11203857

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

9 samples HS

ORIGINAL COPY