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Effective Solutions

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NMOCD ARTESIA

REMEDIATION SUMMARY

AND

RISK-BASED SITE CLOSURE REQUEST

GP II Energy, Inc. (8359)
Federal Littlefield "BO" Tank Battery
Eddy County, New Mexico
UNIT "A" (NE/NE), Section 34, Township 26 South, Range 29 East
Latitude 32° 00' 12.10" North, Longitude 103° 57' 59.06" West

Prepared For:

GP II Energy, Inc.
P.O. Box 50682
Midland, Texas 79710

Prepared By:
Basin Environmental Consulting, LLC
2800 Plains Highway
Lovington, New Mexico 88260

August 2010

Camille J. Bryant

Camille J. Bryant
Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Consulting, LLC (Basin), on behalf of GP II Energy, Inc. (GP II), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as Federal Littlefield "BO" Tank Battery. The legal description of the release site is Unit Letter "A" (NE ¼ NE ¼), Section 34, Township 26 South, Range 29 East, in Eddy County, New Mexico. The property affected by the release is owned by the United States Bureau of Land Management (BLM). The release site GPS coordinates are 32° 00' 12.10" North and 103° 57' 59.06" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site and Sample Location Map. Photographs are provided as Appendix A. The Release Notification and Corrective Action (Form C-141) is provided as Appendix E.

Prior to December 11, 2009, the BLM notified GP II of a release at the Federal Littlefield "BO" Tank Battery. The BLM indicated the release was reported by a New Mexico Oil Conservation Division (NMOCD) inspector. The release occurred following the "workover" of the Federal "BO" #6 well, which resulted in a production surge at a storage tank and the subsequent overflow of the storage tank at the Littlefield "BO" Federal #2 Tank Battery. The release affected areas within the bermed secondary containment, ultimately compromising the containment wall and flowing along the north and/or south margins of a caliche road known as State Line Road. The road is located on property owned and administered by the BLM. Flowing generally west, the release continued along a "two-track" road in a pipeline right-of-way. On December 11, 2009, GP II submitted a Form C-141 to the NMOCD – Artesia District Office, indicating approximately ninety-two (92) barrels of produced oil was released, with approximately twenty (20) barrels recovered during the initial response activities, resulting in a net loss of approximately seventy-two (72) barrels of produced oil.

The release site was arbitrarily separated into two (2) areas, the area along and adjacent to State Line Road is designated "Road" with regard to soil sampling protocol and the area along the pipeline right-of-way has been designated "ROW".

An area of disturbed soil is located south of soil sample ROW F-1; this disturbed area is characterized by soils of a different color and texture from the native soils surrounding this area. The area is devoid of vegetation and aerial photographs confirm the absence of vegetation prior to January 26, 1996. This area of disturbed soil may be associated with two (2) large diameter gas pipelines which run parallel in an east to west direction, approximately fifty (50) feet south of the State Line Road. This area of disturbed soil does not appear to be associated with assets owned and operated by GP II Energy. The absence of vegetation in this area may indicate an undocumented release. Aerial Photographs are provided as Appendix B.

Naturally occurring chlorides, exceeding the NMOCD guidelines are documented in the general area of the release.

2.0 NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), no water wells are recorded in Section 34 of the above referenced township. The NMOSE data indicates the nearest water well was recorded approximately one mile to the northeast of the release. The data indicates water in this well was encountered at approximately eighty-five (85) feet below ground surface (bgs). According to a depth to groundwater reference map utilized by the NMOCD, groundwater should

be encountered at less than one hundred (100) feet bgs. This depth to groundwater results in a score of ten (10) points being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

The bank of the Pecos River is located less than one-thousand (1,000) feet from the most western extent of the release. Based on the NMOCD ranking system ten (10) points will be assigned to the site as a result of the criteria.

The *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993) indicates the Federal Littlefield "BO" Tank Battery release site has a ranking score of twenty (20) points. Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)

NMOCD chloride cleanup levels are site specific and are generally set at 250 mg/Kg or demonstrated background levels.

3.0 SUMMARY OF FIELD ACTIVITIES

Following the discovery of the release, crude oil saturated soil was removed from the release flow paths, stockpiled on-site and transported off-site.

On January 5, 2010, a backhoe was utilized to begin vertical delineation of the release site. Soil samples were collected at selected intervals and submitted to the laboratory for determination of benzene, toluene, ethylbenzene and xylene (BTEX) using EPA Method 8021b, total petroleum hydrocarbons (TPH) using Method SW846-8015M, and chloride using EPA Method 300.0. Along the western flowpath twelve (12) soil samples (SP-1 through SP-9, SP-5A, SP-6A and SP-8A) were collected from the north and/or south margins of State Line Road. The analytical results indicated benzene concentrations were less than the appropriate laboratory method detection limit (MDL) in all twelve soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples SP-2, SP-4, SP-5A, SP-7, SP-8, SP-8A, and SP-9 to 0.1375 mg/Kg in soil sample SP-5. TPH concentrations ranged from 137 mg/Kg in soil sample SP-2 to 1,249 mg/Kg in soil sample SP-6. Chloride concentrations ranged from 15.5 mg/Kg in soil sample SP-9 to 2,280 mg/Kg in soil sample SP-5. A summary of Concentrations of BTEX, TPH and Chloride in Soil is provided as Table 1. Laboratory analytical reports are provided as Appendix C.

Following the collection of soil samples along State Line Road, nine (9) soil samples (SP-10 through SP-16, SP-10A, and SP-12A) were collected along the "two-track" flowpath. Soil sample SP-16 was collected approximately forty (40) feet west of the most western extent of impact and will be used as a background sample. The analytical results indicated benzene concentrations were less than the appropriate laboratory MDL in all nine soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples SP-11, SP-15 and SP-16 to 0.0619 mg/Kg in soil sample SP-10. TPH concentrations ranged from less than the laboratory MDL of 16.0 mg/Kg in soil sample SP-

16 to 944 mg/Kg in soil sample SP-12. Chloride concentrations ranged from 79 mg/Kg in soil sample SP-13 to 1,300 mg/Kg in soil sample SP-10.

Following the collection of soil samples along the "two-track" road, two (2) soil samples (SP-17 and SP-18) were collected along a southern release flowpath off of State Line Road. The analytical results indicated benzene concentrations were less than the appropriate laboratory MDL in both soil samples. BTEX concentrations were 0.1603 mg/Kg and 0.0044 mg/Kg for soil samples SP-17 and SP-18, respectively. TPH concentrations were 136.5 mg/Kg and 103.1 mg/Kg for soil samples SP-17 and SP-18, respectively. Chloride concentrations were 70.5 mg/Kg and 607 mg/Kg for soil samples SP-17 and SP-18, respectively.

Soil samples SP-19 and SP-19A were collected outside of the secondary containment berm, north of the storage tanks. The analytical results indicated benzene concentrations were less than the laboratory MDL in soil sample SP-19A and 0.2386 mg/Kg in soil sample SP-19. BTEX concentrations were 7.53 mg/Kg and 0.006 mg/Kg for soil samples SP-19 and SP-19A, respectively. TPH concentrations were 1,474 mg/Kg and 18.3 mg/Kg for soil samples SP-19 and SP-19A, respectively. Chloride concentrations were 131 mg/Kg and less than the laboratory MDL of 17.7 mg/Kg for soil samples SP-19 and SP-19A, respectively.

Soil sample SP-20 was collected from the southeast side of the tank battery pad, in an area utilized for stockpiling impacted soil. The analytical results indicated the benzene, BTEX, TPH and chloride concentrations were less than the appropriate laboratory MDL.

Soil sample SP-21 was collected from a depression located northeast of the tank battery pad in an area utilized for stockpiling impacted soil. The analytical results indicated the benzene and BTEX concentrations were 0.0013 mg/Kg, the TPH concentration was 385 mg/Kg and chloride concentration was 650 mg/Kg.

In February 2010, a *Remediation Summary and Site Closure Proposal* was submitted to and approved by the NMOCD Artesia District Office and the BLM Carlsbad District Office.

On March 15 through March 26, 2010, excavation activities were conducted at the Federal Littlefield BO Tank Battery release site. A trench, approximately two (2) to 10 (ten) feet wide was excavated along the margins of State Line Road. The trench varied from approximately one and one half (1.5) feet in depth to sixteen (16) feet in depth. Soil excavated from the trench along State Line Road was stockpiled on a poly liner to mitigate the leaching of contaminants into the unaffected soil beneath, prior to transporting the impacted soil to Lea Land, LLC (NMOCD Permit # WM-01-035) for disposal. Soil excavated from the Right-of-Way (ROW) area measured approximately eight (8) to ten (10) feet in width and one and one half (1.5) feet in depth to eleven (11) feet in depth. Soil excavated from the "ROW" area was segregated and stockpiled in an alternate location pending final disposition. Excavated areas along State Line Road were backfilled following the collection of soil samples as a safety precaution.

On March 17, 2010, six (6) excavation floor soil samples (Road F-1, Road F-2, Road F-3, Road F-4, Road F-5 and Road F-6) were collected from the "Road" area and submitted to the laboratory. The soil samples analyzed for concentrations of TPH, Chloride and BTEX in select soil samples. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples, with the exception of soil sample Road F-2, which exhibited a TPH concentration of 144.2 mg/Kg. BTEX

analysis was completed in three (3) of the six (6) submitted soil samples. Benzene and BTEX concentrations were less than the appropriate laboratory MDL in each of the three (3) submitted soil samples. Chloride concentrations ranged from 191 mg/Kg in soil sample Road F-2 to 1,630 mg/Kg in Soil Sample Road F-5.

On March 17, 2010, six (6) excavation sidewall soil samples (Road SSW-1, Road NSW-2, Road SSW-3, Road NSW-4, Road SSW-5 and Road NSW-6) were collected from the "Road" area and submitted to the laboratory. Selected soil samples were analyzed for concentrations of TPH, Chloride and BTEX. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples. BTEX analysis was completed in two (2) of the six (6) submitted soil samples. Benzene and BTEX concentrations were less than the appropriate laboratory MDL in each of the two (2) submitted soil samples. Chloride concentrations ranged from 202 mg/Kg in soil sample Road NSW-4 to 2,870 mg/Kg in Soil Sample Road NSW-2. Based on the analytical results, additional excavation was warranted in the area represented by soil samples Road F-2 and Road NSW-2.

On March 17, 2010, twelve (12) excavation floor soil samples (ROW F-1 through ROW F-12) were collected from the "ROW" area and submitted to the laboratory. Selected soil samples were analyzed for concentrations of TPH, Chloride and BTEX. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples, with the exception of soil samples ROW F-6, ROW F-9, ROW F-10 and ROW F-12, which exhibited a TPH concentration of 137 mg/Kg, 95.1 mg/Kg, 45.5 mg/Kg and 242 mg/Kg, respectively. BTEX analysis was completed in five (5) of the twelve (12) submitted soil samples. Benzene and BTEX concentrations were less than the appropriate laboratory MDL in each of the five (5) submitted soil samples. Chloride concentrations ranged from 11.7 mg/Kg in soil sample ROW F-9 to 914 mg/Kg in Soil Sample ROW F-3.

On March 17, 2010, fourteen (14) excavation sidewall soil samples (ROW ESW-1, ROW WSW-1, ROW ESW-2, ROW SSW-2, ROW NSW-3, ROW SSW-4, ROW NSW-5, ROW SSW-6, ROW NSW-7, ROW SSW-8, ROW NSW-9, ROW SSW-10, ROW NSW-11 and ROW SSW-12) were collected from the "ROW" area and submitted to the laboratory. Selected soil samples were analyzed for concentrations of TPH, Chloride and BTEX. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples, with the exception of soil samples ROW SSW-6 and ROW SSW-12, which exhibited TPH concentrations of 207 mg/Kg and 18.4 mg/Kg, respectively. BTEX analysis was completed in eight (8) of the fourteen (14) submitted soil samples. Benzene and BTEX concentrations were less than the appropriate laboratory MDL in each of the eight (8) submitted soil samples. Chloride concentrations ranged from 4.48 mg/Kg in soil sample ROW NSW-11 to 1,870 mg/Kg in Soil Sample ROW SSW-4. Based on the analytical results, additional excavation was warranted in the area represented by soil samples ROW WSW-1, ROW F-2, ROW F-3, ROW F-6 and ROW F-12.

On March 17, 2010, one (1) stockpile soil sample (Stockpile #1) was collected from soil excavated from the ROW area. The analytical results indicated the TPH concentration was 129 mg/Kg and the chloride concentration was 61.2 mg/Kg. Based on the analytical results, the stockpile was blended in place.

On March 18 and March 19, 2010, four (4) excavation floor soil samples (Road F-7 through Road F-10) were collected from the "Road" area and submitted to the laboratory. The soil samples analyzed for concentrations of TPH and Chloride. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples, with the exception of soil sample Road F-9, which exhibited a

TPH concentration of 18.4 mg/Kg. Chloride concentrations ranged from 840 mg/Kg in soil sample Road F-10 to 2,920 mg/Kg in Soil Sample Road F-8.

On March 18 and March 19, 2010, four (4) excavation sidewall soil samples (Road SSW-7, Road NSW-8, Road SSW-9 and Road NSW-10) were collected from the "Road" area and submitted to the laboratory. The soil samples analyzed for concentrations of TPH and Chloride. The analytical results indicated TPH concentrations were less than the laboratory MDL in all soil samples. Chloride concentrations ranged from 1,360 mg/Kg in soil sample Road NSW-10 to 1,940 mg/Kg in soil sample Road NSW-8.

On March 19, 2010, a soil sample was collected from the middle of the State Line Road in the "crown" of the caliche road. The soil sample was analyzed for concentrations of TPH and Chloride. The analytical results indicated the TPH concentration was less than the laboratory MDL and the chloride concentrations was 3,880 mg/Kg.

On March 22, 2010, five (5) excavation floor soil samples (Road F-13, Road F-14 (9'), Road F-14 (14'), Road F-12.5 (10') and Road F-12.5 (16')) were collected from the "Road" area and submitted to the laboratory. The soil samples analyzed for concentrations of TPH (Road F-13, Road F-14 (9') and Road F-14 (14')) and Chloride. The analytical results indicated TPH concentrations for soil samples Road F-13, Road F-14 (9') and Road F-14 (14') were 23.1 mg/Kg, 21.2 mg/Kg and 21.4 mg/Kg, respectively. Chloride concentrations ranged from 356 mg/Kg in soil sample Road F-12.5 (10') to 943 mg/Kg in soil sample Road F-13. Soil sample Road F-12.5 (16') was collected when the excavation encountered a chloride zone at 16 feet below ground surface (bgs).

On March 22, 2010, an additional background sample was collected approximately 150 feet north and upslope of the excavation and approximately eight (8) feet in depth. The analytical results indicated a chloride concentration of 43.5 mg/Kg.

On March 25, 2010, the area utilized for stockpiling impacted soil was excavated. The excavated area measured approximately twenty (20) feet in width by thirty (30) feet in length and approximately ten (10) feet in depth. One (1) excavation floor soil sample (Pit F-1) was collected and submitted to the laboratory. The analytical results indicated the benzene and BTEX concentration were less than the appropriate laboratory MDL, the TPH concentration was 19.21 mg/Kg and the chloride concentration was 210 mg/Kg. Following excavation, four (4) excavation sidewall soil samples (Pit SSW, Pit WSW, Pit NSW and Pit ESW) were collected and submitted to the laboratory. The analytical results indicated benzene and BTEX concentration were less than the appropriate laboratory MDL. The TPH concentrations ranged from less than the laboratory MDL for soil sample Pit ESW to 40.3 mg/Kg for soil sample Pit WSW. The chloride concentrations ranged from 39.1 mg/Kg for soil sample Pit ESW to 623 mg/Kg for soil sample Pit SSW.

On March 25, 2010, areas previously identified during sampling events (ROW WSW-1, ROW F-2, ROW F-3, ROW F-6, ROW SSW-6, ROW F-12, Road F-2 and Road NSW-2) and requiring additional excavation were re-sampled. Soil samples ROW F-6A, ROW SSW-6A, ROW F-12A and Road F-2A were sample for TPH concentrations. The analytical results indicated the TPH concentrations ranged from less than the laboratory MDL for soil samples ROW F-6A, ROW F-12A and Road F-2A and 19.1 mg/Kg for soil sample ROW SSW-6A. Soil samples WSW-1A, ROW F-2A, ROW F-3A and Road NSW-2A were sampled for chloride concentrations. The analytical results indicated the chloride

concentrations for soil samples WSW-1A, ROW F-2A, ROW F-3A and Road NSW-2A were 115 mg/Kg, 1,390 mg/Kg, 1,030 mg/Kg and 667 mg/Kg, respectively.

On March 25, 2010, five (5) excavation floor soil samples (Road F-11, Road F-12, Road F-15, Road F-16 and Road F-17) were collected from the "Road" area and submitted to the laboratory. The soil samples analyzed for concentrations of TPH and chloride. The analytical results indicated TPH concentrations for soil samples ranged from less than the laboratory MDL for soil samples Road F-11, Road F-16 and Road F-17 to 17.7 mg/Kg for soil sample Road F-12. Chloride concentrations ranged from 98 mg/Kg for soil sample Road F-16 to 2,790 mg/Kg for soil sample Road F-12.

On March 25, 2010, six (6) excavation sidewall soil samples (Road NSW-10.5, Road SSW-11, Road NSW-12, Road NSW-15, Road SSW-16 and Road NSW-17) were collected from the "Road" area and submitted to the laboratory. The soil samples were analyzed for concentrations of TPH and chloride, with the exception of soil sample Road NSW-10.5, which was sampled for chloride only. The analytical results indicated TPH concentrations for all five (5) submitted soil samples were less than the appropriate laboratory MDL. Chloride concentrations ranged from 63 mg/Kg for soil sample Road NSW-17 to 1,440 mg/Kg for soil sample Road SSW-11.

On April 7, 2010, one (1) stockpile soil sample (Stockpile #2) was collected from soil excavated from the ROW area. The analytical results indicated the TPH concentration was 168.5 mg/Kg.

On April 7, 2010, GP II, Basin and NMOCD representatives met onsite to discuss a path toward an NMOCD approved site closure. GP II and Basin representatives proposed a risk-based closure, based on the extent of impact, the close proximity of high pressure gas transportation pipelines, the highly traveled State Line Road and the suspected undocumented release. GP II and Basin proposed the advancement of three (3) soil borings to fully vertically delineate the site. The NMOCD was in agreement with the need to fully vertically delineate the site and approved of the events to be conducted.

On April 12, 2010, three (3) soil borings (SB-1 through SB-3) were advanced to investigate the vertical extent of impact at the site. Soil boring logs are provided as Appendix D. Soil samples were collected at five (5) foot drilling intervals and field screened using a chloride field screening kit. Selected soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and total xylene (BTEX), total petroleum hydrocarbons (TPH) and chlorides using EPA Method SW 846-8021B, EPA Method SW 848-8015M and EPA Method 4500 Cl-B, respectively.

Soil Boring SB-1, was located between soil sample Road F-8 and Road F-7 and was advanced to approximately thirty (30) feet bgs. Soil samples collected at fifteen (15) feet bgs, twenty (20) feet bgs, twenty-five (25) feet bgs and thirty (30) feet bgs were submitted to the laboratory for chloride analysis. The laboratory analytical results indicated chloride concentrations ranged from 179.4 mg/Kg in the soil sample collected at thirty (30) feet bgs to 456.1 mg/Kg for the soil sample collected at fifteen (15) feet bgs.

Soil Boring SB-2, was located north of soil sample Road F-12 and was advanced to approximately fifty five (55) feet bgs. Soil samples collected at fifteen (15) feet bgs, twenty0five (25) feet bgs, thirty five (35) feet bgs, forty-five (45), fifty (50) and fifty-five (55) feet bgs were submitted to the laboratory for chloride analysis. The laboratory analytical results indicated chloride concentrations ranged from 229.7 mg/Kg in the soil sample collected at fifty-five (55) bgs to 2,894 mg/Kg for the soil sample collected at fifteen (15) feet bgs.

Soil Boring SB-3, was located east of soil sample ROW F-2 and was advanced to approximately seventy five (75) feet bgs. Soil samples collected at two (2) feet bgs, five (5) feet bgs, ten (10) feet bgs, twenty (20) feet bgs, thirty (30) feet bgs, forty (40) feet bgs, fifty (50) feet bgs, sixty (60) feet bgs, seventy (70) feet bgs and seventy five (75) feet bgs were submitted to the laboratory for chloride analysis. The laboratory analytical results indicated chloride concentrations ranged from 458.4 mg/Kg in the soil sample collected at seventy five (75) bgs to 3,363 mg/Kg for the soil sample collected at two (2) feet bgs. The soil sample collected at two (2) feet bgs was analyzed for BTEX and TPH concentrations. The analytical results indicated the benzene concentration was less than the laboratory MDL, the BTEX concentration was 0.0316 mg/Kg and the TPH concentration was 445 mg/Kg. The soil sample collected at five (5) feet bgs exhibited a TPH concentration of less than the laboratory MDL.

The soil represented by soil sample Stockpile #1 was placed on a caliche pad north of the release area. The soil was disked and treated with nitrogen rich fertilizer.

On May 28, 2010, one (1) stockpile soil sample (Stockpile #1 A) was collected from the treated soil. The soil sample represented approximately 500 cy of excavated soil. The collected soil sample was submitted to the laboratory and analyzed for TPH concentrations. The analytical results indicated the TPH concentration was 26.7 mg/Kg. Based on the analytical results, the soil contained in the stockpile, and represented by soil sample Stockpile #1A, was deemed suitable for use as backfill material.

On June 30, 2010, one (1) soil sample (Stockpile #3) was collected from the soil being utilized as berm material around the ROW excavation. The soil sample represented approximately 500 cy of excavated soil. The soil sample was collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated a benzene concentration of less than the laboratory MDL, a BTEX concentration of 0.0051 mg/Kg, a TPH concentration of 61 mg/Kg and a chloride concentration of 218 mg/Kg. Based on the analytical results, the soil contained in the stockpile, and represented by soil sample Stockpile #3, was deemed suitable for use as backfill material.

On June 24, 2010, GP II submitted the *Amended Remediation Summary and Risk-Based Site Closure Proposal* (Plan) to the NMOCD Artesia Office. In a letter dated July 19, 2010, the NMOCD Artesia Office granted approval of the Plan.

On July 22, 2010, GP II commenced soil closure activities at the site. Approximately 2,393 cy of impacted material was transported to Lea Land, LLC (NMOCD Permit # WM-01-035) for disposal. The excavated areas were backfilled with non-impacted locally purchased soil and the stockpiled soil. Following backfill activities, areas disturbed by the remediation activities were contoured to fit the surrounding topography.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., of Odessa, Texas for BTEX and/or TPH and /or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentrations in accordance with EPA Method E300.1

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, Basin recommends GP II provide the NMOCD Artesia Office and the BLM Carlsbad Office a copy of this Remediation Summary and Risk-Based Site Closure Request and request the NMOCD grant site closure to the Federal Littlefield "BO" Tank Battery release site.

6.0 LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Risk-Based Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC 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. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC 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 GP II Energy, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Consulting, LLC and/or GP II Energy, Inc.

7.0 DISTRIBUTION:

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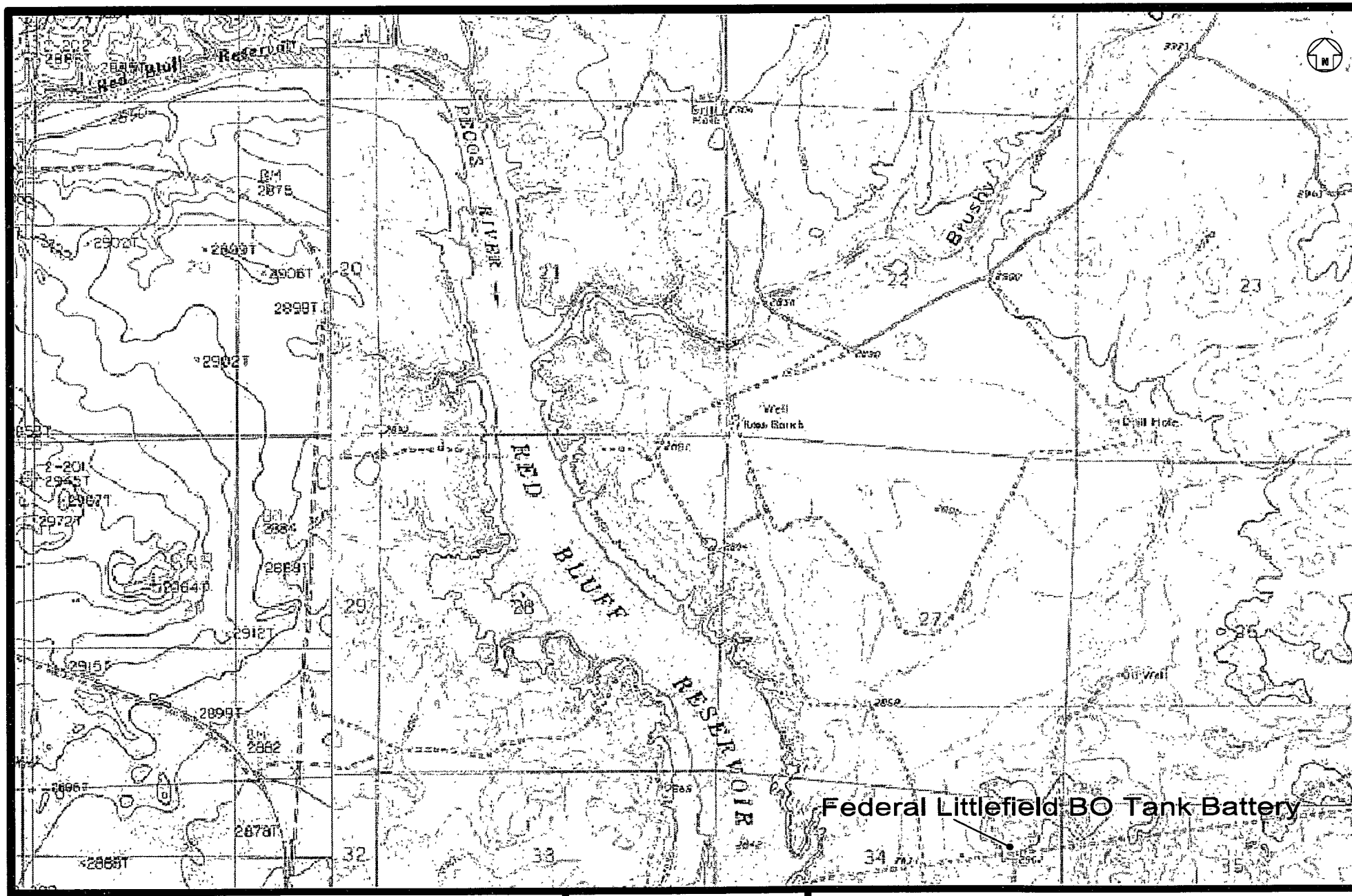
Figures



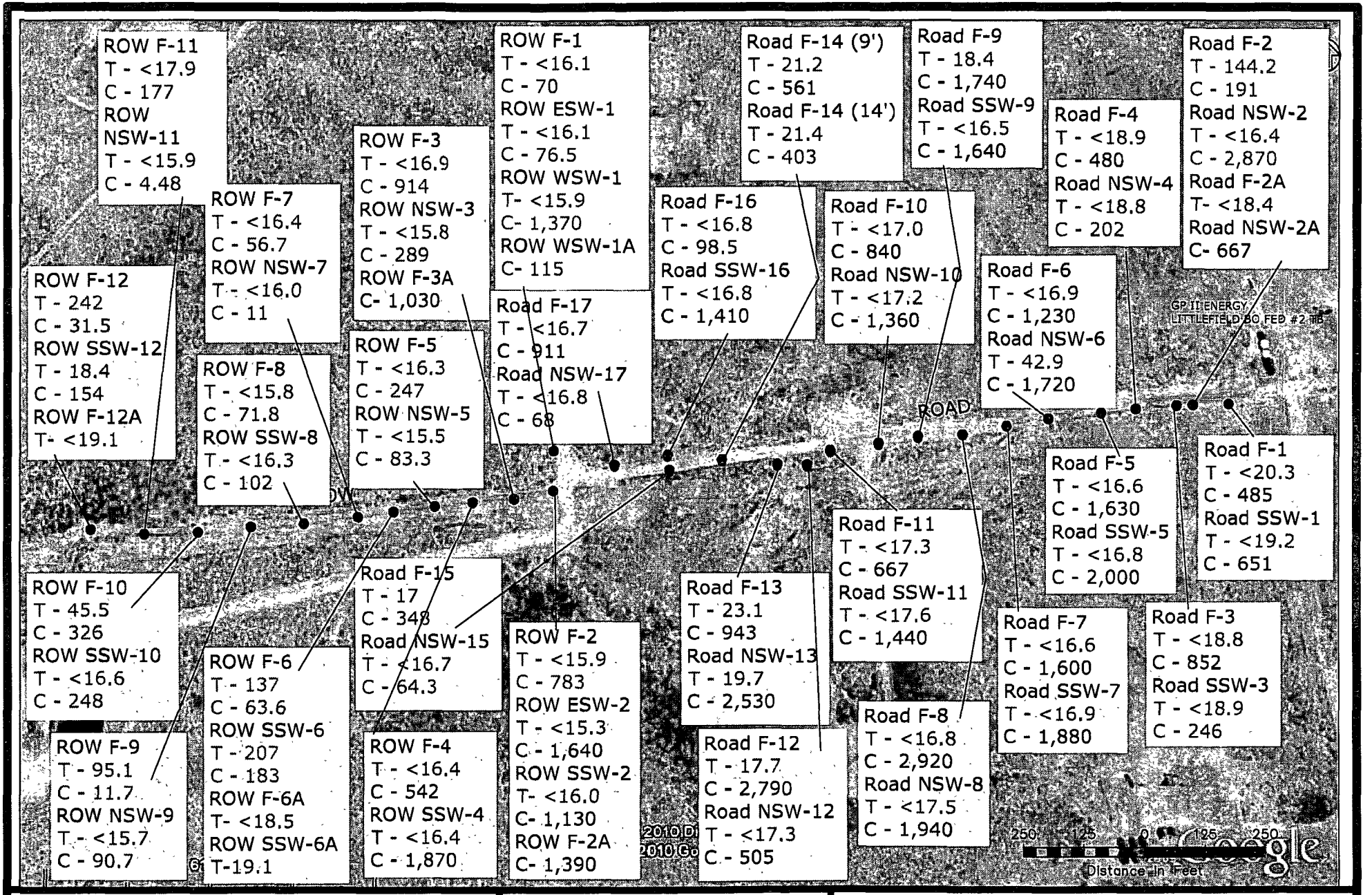
2000 1000 0 1000 2000

Distance in Feet

Figure 1
Site Location Map
Federal Littlefield BO
Tank Battery
GP II Energy
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CDS
January 27, 2010	Scale 1"=2000'



Legend:

- ● Sample Location
- T Total Petroleum Hydrocarbons - mg/Kg (ppm)
- C Chloride - mg/Kg (ppm)

green - below regulatory, red - above regulatory, blue - resampled

Figure 2
Site and Sample Location Map
GP II Energy
Littlefield BO Fed #2
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CJB
April 5, 2010	Scale 1"= approx. 250'

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
GP II ENERGY
FEDERAL LITTLEFIELD "BO" TANK BATTERY
EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: E300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C6-C35 (mg/Kg)	CHLORIDE (mg/Kg)
SP-1	1 Foot	01/05/10	In-Situ	<0.0012	<0.0025	0.0038	0.0098	0.0055	0.0191	39	278	29	346	548
SP-2	1 Foot	01/05/10	In-Situ	<0 0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	137	<16.7	137	568
SP-3	18 Inches	01/05/10	In-Situ	<0.0012	<0.0024	<0.0012	0.003	<0.0012	0.003	26	137	<17.7	163	2,240
SP-4	18 Inches	01/05/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	116	414	48	578	229
SP-5	18 Inches	01/05/10	In-Situ	<0.0011	0 0105	0.0293	0 0885	0.0092	0.1375	185	602	<16 9	787	2,280
SP-5A	3 Feet	01/05/10	In-Situ	<0.0011	<0 0022	<0.0011	<0.0022	<0.0011	<0.0022	81	149	31	261	1,850
SP-6	18 Inches	01/05/10	In-Situ	<0.0011	0.0071	0.011	0.0244	0.0202	0.0627	218	910	121	1,249	561
SP-6A	3.5 Feet	01/05/10	In-Situ	<0.0011	<0.0023	0.0037	0.0072	0.006	0.0169	240	470	22	732	829
SP-7	18 Inches	01/05/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0 0022	229	262	29.6	521	1,480
SP-8	3 Feet	01/05/10	In-Situ	<0 0011	<0.0023	<0 0011	<0.0023	<0 0011	<0.0023	238	496	24.2	758	1,060
SP-8A	4 Feet	01/05/10	In-Situ	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	<0.0026	45.1	303	22 1	370	1,320
SP-9	1 Foot	01/05/10	In-Situ	<0.0013	<0.0027	<0.0013	<0.0027	<0 0013	<0.0027	44.3	334	<19 9	378	15.5
SP-10	2 Feet	01/05/10	In-Situ	<0.0011	0 0023	0.0168	0.0523	0.0096	0.081	279	519	29.3	827	1,300
SP-10A	3.5 Feet	01/05/10	In-Situ	<0 0011	<0.0022	0.0011	0.0035	<0.0011	0.0046	208	324	20	552	935
SP-11	3 Feet	01/05/10	In-Situ	<0 0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	139	238	28.3	405	98.5
SP-12	2 Feet	01/05/10	In-Situ	<0.0011	<0.0022	0.0078	0.0281	0.0108	0.0467	269.0	653	22.1	944	473
SP-12A	3 Feet	01/05/10	In-Situ	<0.0011	<0.0021	0.0024	0.0083	0.0022	0.0129	40.2	106	<16.1	146	275
SP-13	2.5 Feet	01/05/10	In-Situ	<0.0011	<0.0022	<0.0011	0.0024	<0.0011	0.0024	38.9	495	24.9	559	79
SP-14	2 Feet	01/05/10	In-Situ	<0.0011	0.0028	0.0084	0.0281	0.0084	0.0477	134	270	20 6	425	257
SP-15	3 Feet	01/05/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0 0021	<15.9	35.4	<15.9	35.4	732
SP-16	2.5 Feet	01/05/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0 0011	<0 0021	<16.0	<16.0	<16.0	<16.0	164
SP-17	4 Feet	01/05/10	In-Situ	<0.0013	0.0189	0.0312	0.0794	0.0308	0.1603	45.8	90.7	<19.8	136.5	70.2
SP-18	4 Feet	01/05/10	In-Situ	<0.0011	<0.0021	<0.0011	0 0032	0.0012	0.0044	22.6	80.5	<15.9	103.1	607
SP-19	3 Feet	01/05/10	In-Situ	0.2386	1.143	1.478	3.484	1.186	7.53	417	969	87.6	1,474	131
SP-19A	4 Feet	01/05/10	In-Situ	<0.0011	<0.0021	0.0015	0.0033	0.0012	0.006	<15.8	18.3	<15.8	18.3	<17 7
SP-20	2 Feet	01/05/10	In-Situ	<0.0010	<0.0021	0.0012	<0.0021	<0.0010	0.0012	<15 5	<15.5	<15.5	<15.5	<4 34
SP-21	3 Feet	01/05/10	In-Situ	0.0013	<0.0022	<0.0011	<0.0022	<0.0011	0.0013	<16.8	343	42.4	385	650
ROAD F-1	3 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<20.3	<20.3	<20.3	<20.3	485
ROAD SSW-1	2 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<19.2	<19.2	<19.2	<19.2	651
ROAD F-2	3 Feet	03/17/10	Excavated	<0.0012	<0.0025	<0.0012	<0.0025	<0.0012	<0.0025	26.2	118	<18.4	144.2	191
ROAD NSW-2	2.5 Feet	03/17/10	Excavated	-	-	-	-	-	-	<16.4	<16 4	<16.4	<16.4	2,870
ROAD F-3	2 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<18.8	<18.8	<18.8	<18 8	852
ROAD SSW-3	1.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<18.9	<18.9	<18.9	<18.9	246
ROAD F-4	2.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<18.9	<18.9	<18.9	<18.9	480
ROAD NSW-4	2 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<18.8	<18.8	<18 8	<18.8	202
ROAD F-5	7 Feet	03/17/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0 0011	<0.0022	<16.6	<16.6	<16.6	<16 6	1,630
ROAD SSW-5	6 Feet	03/17/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	2,000
ROAD F-6	7 Feet	03/17/10	In-Situ	<0.0011	<0 0022	<0.0011	<0.0022	<0.0011	<0 0022	<16.9	<16.9	<16.9	<16.9	1,230
ROAD NSW-6	6 Feet	03/17/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.1	43	<17.1	42.9	1,720

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
GP II ENERGY
FEDERAL LITTLEFIELD "BO" TANK BATTERY
EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: E300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C6-C35 (mg/Kg)	CHLORIDE (mg/Kg)
ROW F-1	3 Feet	03/17/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	70
ROW ESW-1	2.5 Feet	03/17/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0 0021	<16.1	<16.1	<16.1	<16.1	76 5
ROW WSW-1	2.5 Feet	03/17/10	Excavated	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	1,370
ROW F-2	7 Feet	03/17/10	Excavated	-	-	-	-	-	-	<15.9	<15 9	<15.9	<15.9	783
ROW ESW-2	6 Feet	03/17/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	1,640
ROW SSW-2	6 Feet	03/17/10	In-Situ	<0.0011	<0.0021	<0.0011	<0 0021	<0.0011	<0 0021	<16.0	<16.0	<16 0	<16 0	1,130
ROW F-3	6 Feet	03/17/10	Excavated	-	-	-	-	-	-	<16.9	<16.9	<16 9	<16.9	914
ROW NSW-3	5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<15.8	<15 8	<15.8	<15.8	289
ROW F-4	6 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<16.4	<16.4	<16.4	<16.4	542
ROW SSW-4	5 Feet	03/17/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	1,870
ROW F-5	3 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<16 3	<16.3	<16.3	<16.3	247
ROW NSW-5	2.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<15 5	<15.5	<15.5	<15.5	83 3
ROW F-6	2.5 Feet	03/17/10	Excavated	<0.0011	<0 0022	<0.0011	<0 0022	<0.0011	<0.0022	<16.8	137	<16.8	137	63.6
ROW SSW-6	1.5 Feet	03/17/10	In-Situ	<0.0011	<0.0022	<0 0011	<0 0022	<0.0011	<0 0022	<16.1	207	<16 1	207	183
ROW F-7	1 Foot	03/17/10	In-Situ	-	-	-	-	-	-	<16.4	<16.4	<16 4	<16.4	56.7
ROW NSW-7	0.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<16.0	<16 0	<16.0	<16.0	11
ROW F-8	2.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<15.6	<15 6	<15.6	<15.6	71.8
ROW SSW-8	2 Feet	03/17/10	In-Situ	<0 0011	<0.0022	<0.0011	<0.0022	<0 0011	<0.0022	<16.3	<16 3	<16.3	<16.3	102
ROW F-9	3 Feet	03/17/10	In-Situ	<0 0012	<0.0024	<0.0012	<0.0024	<0 0012	<0.0024	21.3	73 8	<17.6	95.1	11.7
ROW NSW-9	2.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<15.7	<15.7	<15.7	<15.7	90.7
ROW F-10	2.5 Feet	03/17/10	In-Situ	<0.0011	0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	45.5	<16.2	45.5	326
ROW SSW-10	2 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<16 6	<16.6	<16.6	<16.6	248
ROW F-11	2.5 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<17.9	<17.9	<17.9	<17.9	177
ROW NSW-11	2 Feet	03/17/10	In-Situ	-	-	-	-	-	-	<15.9	<15.9	<15.9	<15.9	4.48
ROW F-12	1 Foot	03/17/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0 0021	<15.9	242.0	<15.9	242	31.5
ROW SSW-12	0.5 Feet	03/17/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0 0011	<0 0021	<16.1	18 4	<16.1	18 4	154

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
GP II ENERGY
FEDERAL LITTLEFIELD "BO" TANK BATTERY
EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: E300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C6-C35 (mg/Kg)	CHLORIDE (mg/Kg)
Stockpile #1	N/A	03/17/10	-	-	-	-	-	-	-	<16.3	129	<16.3	129	61.2
Road F-7	7 Feet	03/18/10	In-Situ	-	-	-	-	-	-	<16.6	<16.6	<16.6	<16.6	1,600
Road SSW-7	6.5 Feet	03/18/10	In-Situ	-	-	-	-	-	-	<16.9	<16.9	<16.9	<16.9	1,880
Road F-8	4 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<16.8	<16.8	<16.8	<16 8	2,920
Road NSW-8	3.5 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<17.5	<17.5	<17.5	<17.5	1,940
Road F-9	7 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<17.2	18.4	<17.2	18 4	1,740
Road SSW-9	6 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<16 5	<16.5	<16 5	<16.5	1,640
Road F-10	7 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<17.0	<17.0	<17.0	<17.0	840
Road NSW-10	6 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<17.2	<17.2	<17.2	<17.2	1,360
Midway CL of Road	1 5 Feet	03/19/10	In-Situ	-	-	-	-	-	-	<16.3	<16.3	<16.3	<16.3	3,880
Road F-13	8 Feet	03/22/10	In-Situ	-	-	-	-	-	-	<18.1	23 1	<18.1	23 1	943
Road NSW-13	7 Feet	03/22/10	In-Situ	-	-	-	-	-	-	<18.2	19 7	<18.2	19.7	2,530
Road F-14 (9')	9 Feet	03/22/10	In-Situ	-	-	-	-	-	-	<17.2	21.2	<17.2	21.2	561
Road F-14 (14')	14 Feet	03/22/10	In-Situ	-	-	-	-	-	-	<17.5	21.4	<17 5	21.4	403
Background 8'	8 Feet	03/22/10	-	-	-	-	-	-	-	-	-	-	-	43 5
Road F-12.5 (10')	10 Feet	03/22/10	In-Situ	-	-	-	-	-	-	-	-	-	-	356
Road F-12.5 (16')	16 Feet	03/23/10	-	-	-	-	-	-	-	-	-	-	-	419
Pit F-1	10 Feet	03/25/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	19.2	<17.2	<17.2	19 2	210
Pit SSW	5.5 Feet	03/25/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	20.8	<17.1	<17.1	20.8	623
Pit WSW	5.5 Feet	03/25/10	In-Situ	<0.0012	<0.0023	<0 0012	<0.0023	<0.0012	<0.0023	19.3	21 0	<17.3	40 3	438
Pit NSW	5.5 Feet	03/25/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	20.4	17 6	<16.9	38	153
Pit ESW	5.5 Feet	03/25/10	In-Situ	<0.0011	<0 0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	39.1
ROW WSW-1A	3 Feet	03/25/10	In-Situ	-	-	-	-	-	-	-	-	-	-	115
ROW F-2A	11 Feet	03/25/10	In-Situ	-	-	-	-	-	-	-	-	-	-	1,390
ROW F-3A	9 Feet	03/25/10	In-Situ	-	-	-	-	-	-	-	-	-	-	1,030
ROW F-6A	6 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<18.5	<18.5	<18.5	<18.5	-
ROW SSW-6A	5 5 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<16.4	<16.4	19.1	19.1	-
ROW F-12A	4 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<19.1	<19.1	<19.1	<19.1	-
Road F-2A	6 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<18.4	<18.4	<18 4	<18.4	-
Road NSW-2A	5.5 Feet	03/25/10	In-Situ	-	-	-	-	-	-	-	-	-	-	667
Road NSW-10 5	7 Feet	03/25/10	In-Situ	-	-	-	-	-	-	-	-	-	-	851
Road F-11	7 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<17.3	<17.3	<17.3	<17 3	667
Road SSW-11	6.5 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<17.6	<17.6	<17 6	<17.6	1,440
Road F-12	6 Feet	03/25/10	In-Situ	-	-	-	-	-	-	17.7	<16.9	<16.9	17.7	2,790
Road NSW-12	5 5 Feet	03/25/10	In-Situ	-	-	-	-	-	-	<17.3	<17.3	<17.3	<17.3	505
Road F-15	6 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16 2	17	<16.2	17	348

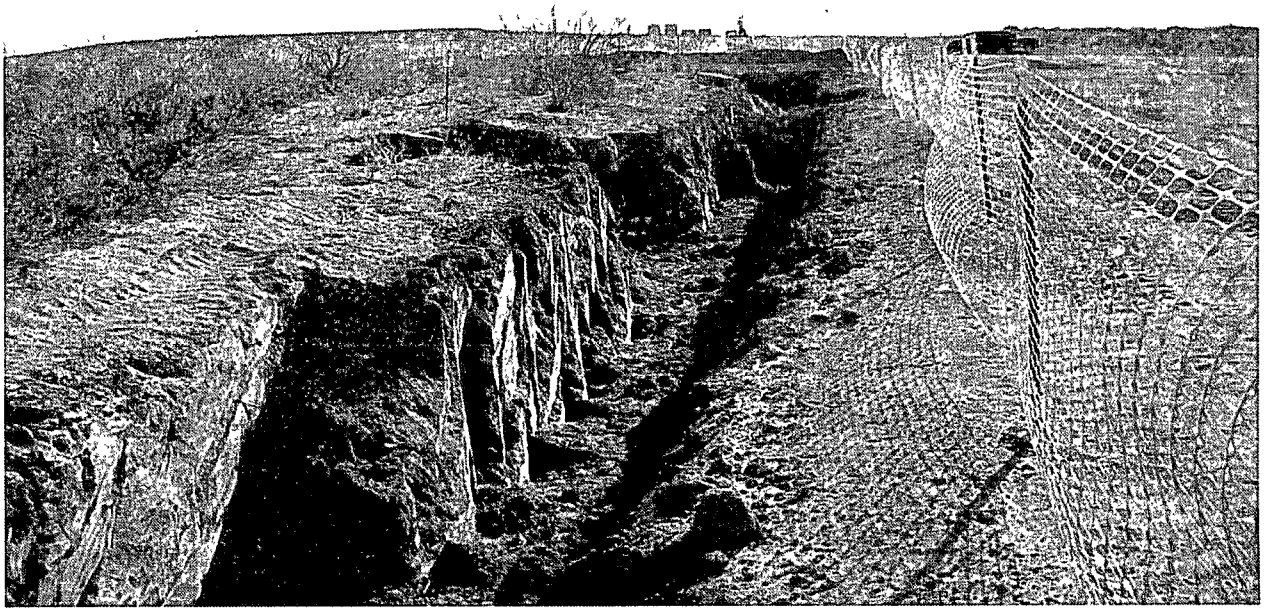
TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
GP II ENERGY
FEDERAL LITTLEFIELD "BO" TANK BATTERY
EDDY COUNTY, NEW MEXICO

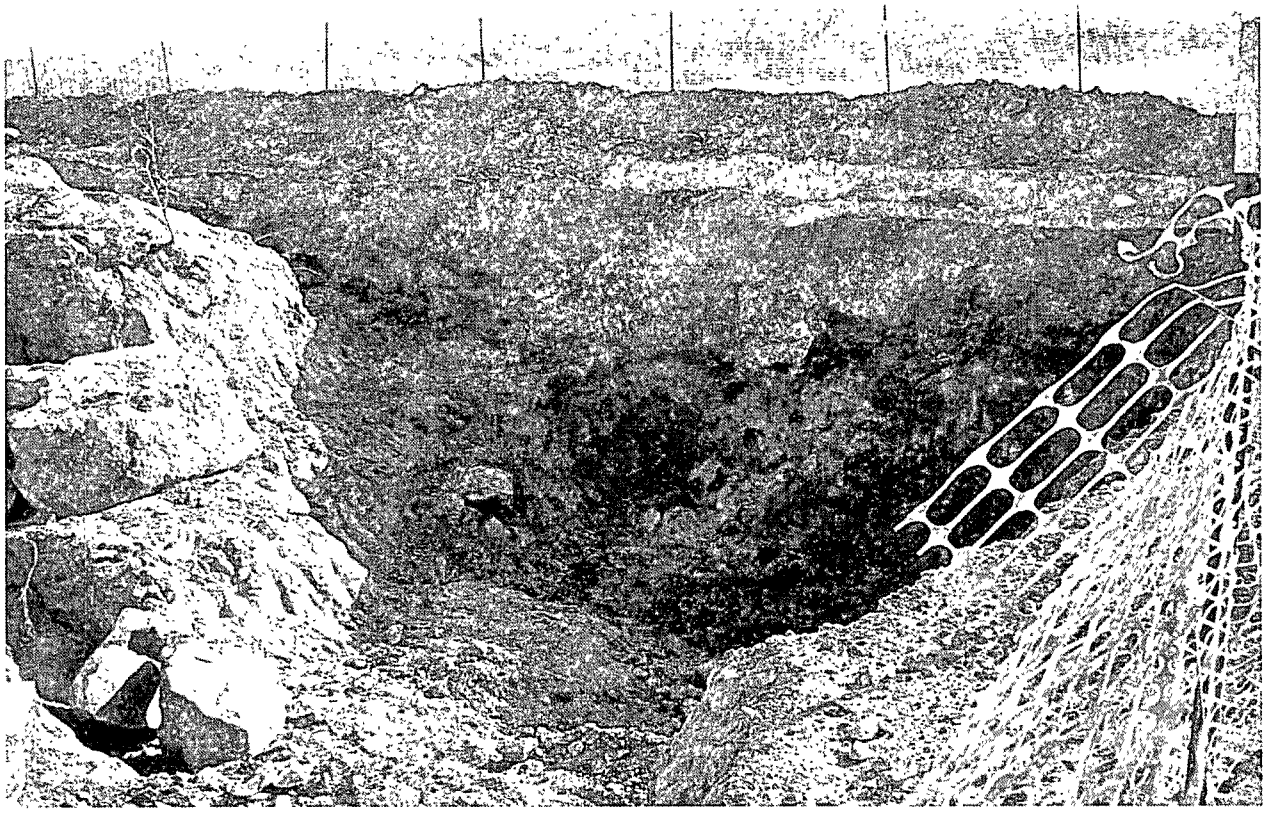
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: E300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C6-C35 (mg/Kg)	CHLORIDE (mg/Kg)
Road NSW-15	5.5 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16.7	<16.7	<16.7	<16 7	64.3
Road F-16	3 5 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16.8	<16.8	<16.8	<16 8	98.5
Road SSW-16	3 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16.8	<16.8	<16 8	<16.8	1,410
Road F-17	4 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16.7	<16.7	<16.7	<16.7	911
Road NSW-17	3.5 Feet	03/26/10	In-Situ	-	-	-	-	-	-	<16.8	<16 8	<16.8	<16.8	63
Stockpile #2	-	04/07/10	-	-	-	-	-	-	-	20.5	148	<15.5	168 5	169
SB-2 @ 15'	15 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	2,894
SB-2 @ 25'	25 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	647.3
SB-2 @ 35'	35 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	274.9
SB-2 @ 45'	45 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	941.2
SB-2 @ 50'	50 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	275.5
SB-2 @ 55'	55 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	229.7
SB-1 @ 15'	15 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	456.1
SB-1 @ 20'	20 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	226.4
SB-1 @ 25'	25 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	224.9
SB-1 @ 30'	30 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	179.4
SB-3 @ 2'	2 Feet	04/12/10	In-Situ	<0.0011	<0.0021	0.0085	0.017	0.0061	0.0316	70.8	335	38.9	445	3,363
SB-3 @ 5'	5 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	1,897
SB-3 @ 10'	10 Feet	04/12/10	In-Situ	-	-	-	-	-	-	<16.9	<16.9	<16.9	<16.9	1,437
SB-3 @ 20'	20 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	1,403
SB-3 @ 30'	30 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	467.9
SB-3 @ 40'	40 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	849.6
SB-3 @ 50'	50 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	896.6
SB-3 @ 60'	60 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	865
SB-3 @ 70'	70 Feet	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	494.7
SB-3 @ 75'	75'	04/12/10	In-Situ	-	-	-	-	-	-	-	-	-	-	458.4
Stockpile #1 A	N/A	05/28/10	In-Situ	-	-	-	-	-	-	<16 0	26.7	<16.0	26.7	-
Stockpile #3	N/A	06/30/10	InSitu	<0.0010	<0 0020	0 001	0 0028	0.0013	0.0051	<15.0	61	<15.0	61	218

Appendices

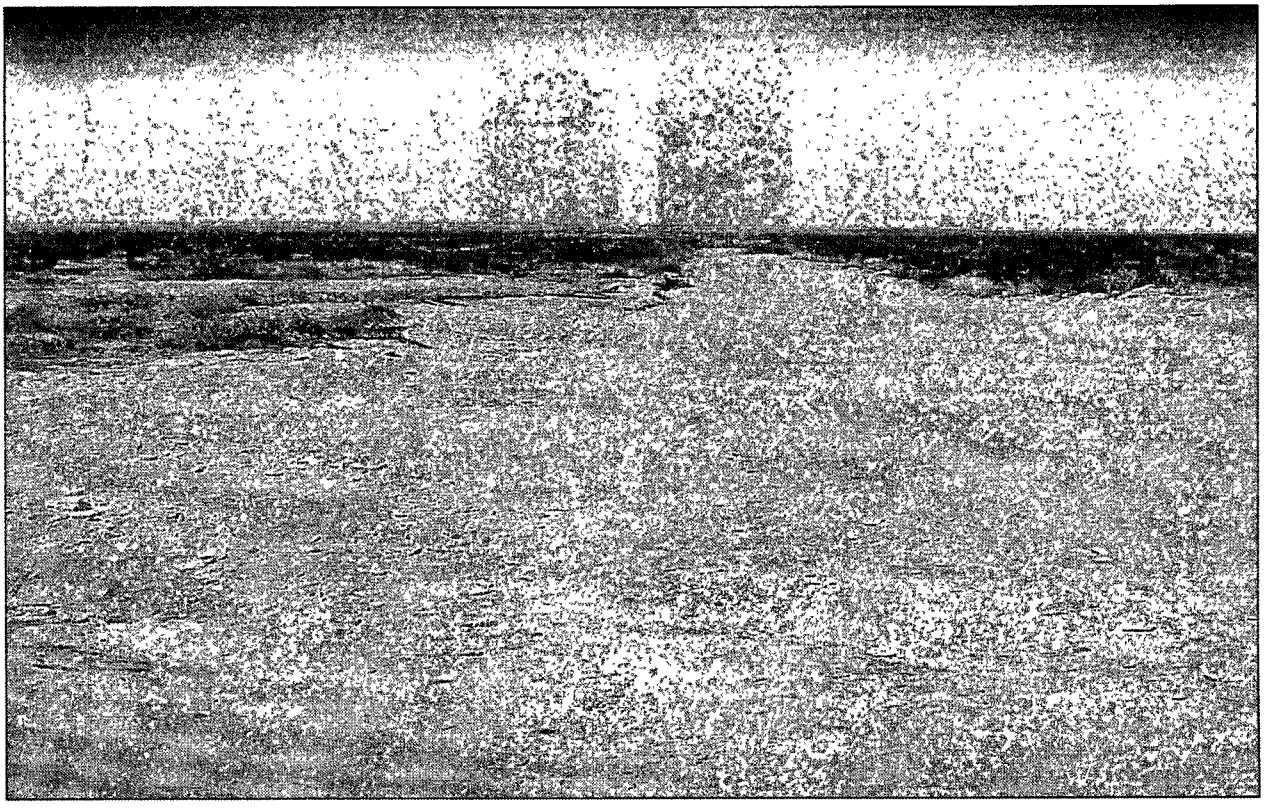
Appendix A
Photographs



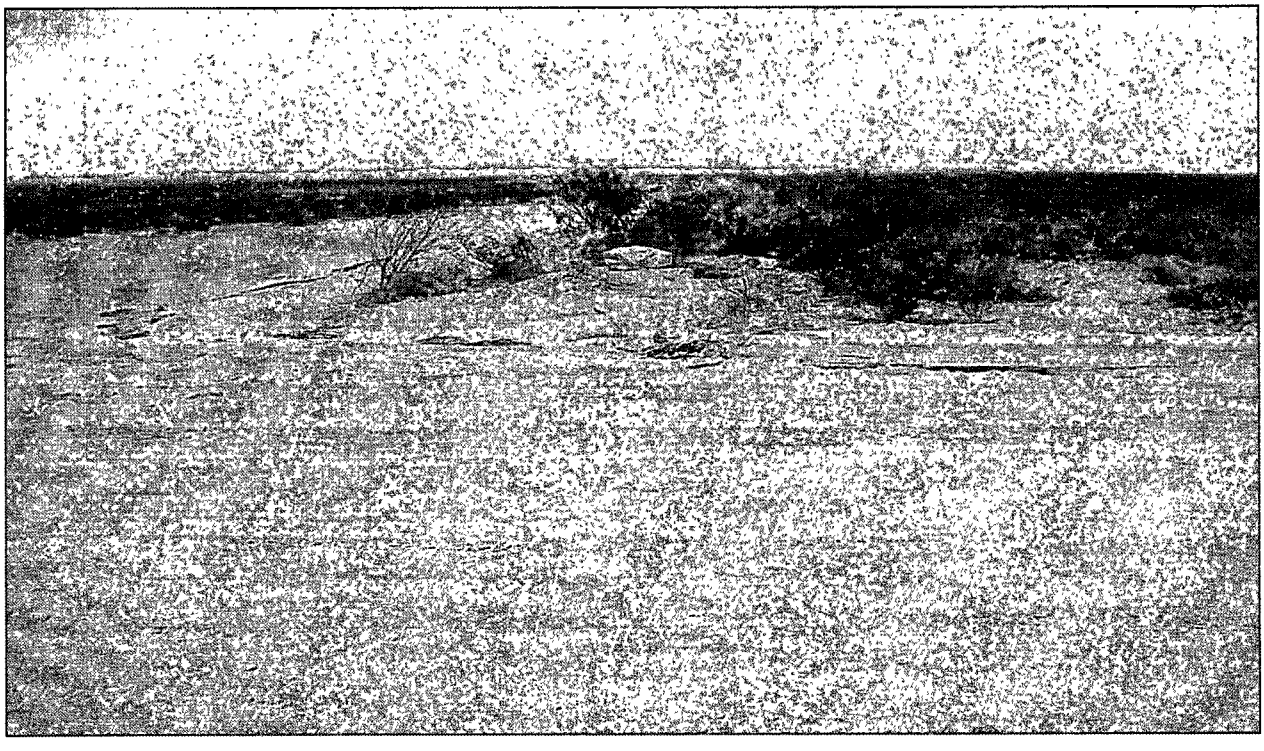
Excavation Activities at the Federal Littlefield "BO" Tank Battery Release Site



Excavation Activies at the Federal Littlefield "BO" Tank Battery Release Site



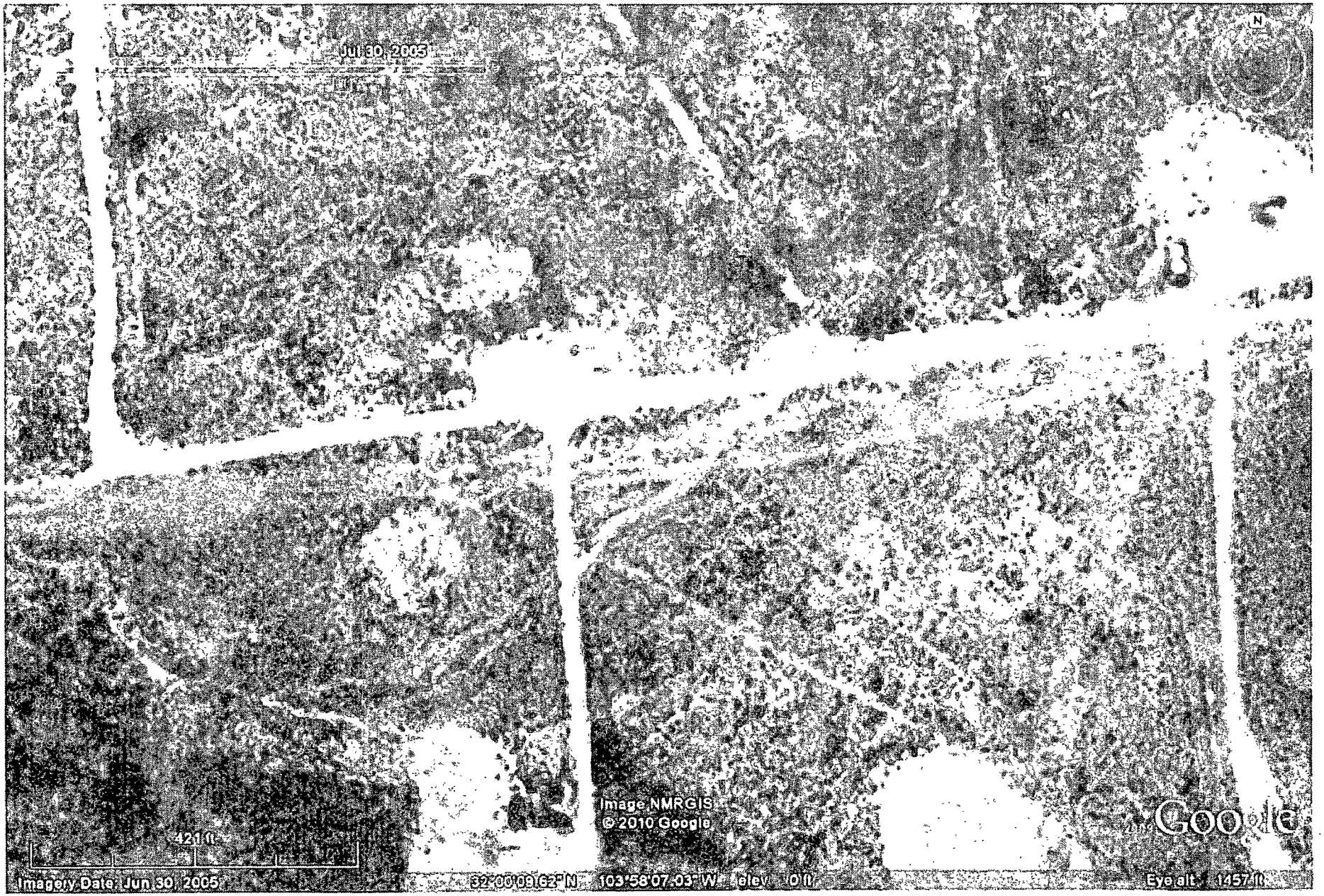
The Federal Littlefield "BO" Tank Battery Release Site On Completion of Remediation Activities



The Federal Littlefield "BO" Tank Battery Release Site On Completion of Remediation Activities

Appendix B
Aerial Photographs


Jan 25, 1998
1998
2010
N
Image U.S. Geological Survey
© 2010 Google
Google
421 ft
Imagery Date: Jan 26, 1998
32°00'09.62" N 103°58'07.03" W elev 0 ft
Eye alt 1457 ft


Jul 30, 2005
N
Image NMRGIS
© 2010 Google
Google
421 ft
Imagery Date: Jun 30, 2005
32°00'09.62" N 103°58'07.03" W elev 0 ft
Eye alt 1457 ft


Feb 13, 2007
N
Image © 2010 DigitalGlobe
© 2010 Google
Google
421 ft
32°00'09.62" N 103°58'07.03" W elev 0 ft
Eye alt 1457 ft

Appendix C
Analytical Reports

Analytical Report 357602

for

GP II Energy

Project Manager: Curt Stanley

Littlefield "BO" Fed # 2

GP II Energy

12-JAN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

12-JAN-10

Project Manager: **Curt Stanley**
GP II Energy
P.O. Box 50682
Midland, TX 79710

Reference: XENCO Report No: **357602**
Littlefield "BO" Fed # 2
Project Address: Eddy County, New Mexico

Curt Stanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 357602. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 357602 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 357602

GP II Energy, Midland, TX

Littlefield "BO" Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	Jan-05-10 10:20		357602-001
SP-2	S	Jan-05-10 10:35		357602-002
SP-3	S	Jan-05-10 10:50		357602-003
SP-4	S	Jan-05-10 11:05		357602-004
SP-5	S	Jan-05-10 11:20		357602-005
SP-5 A	S	Jan-05-10 11:30		357602-006
SP-6	S	Jan-05-10 11:45		357602-007
SP-6 A	S	Jan-05-10 11:55		357602-008
SP-7	S	Jan-05-10 12:05		357602-009
SP-8	S	Jan-05-10 12:20		357602-010
SP-8 A	S	Jan-05-10 12:25		357602-011
SP-9	S	Jan-05-10 12:35		357602-012
SP-10	S	Jan-05-10 12:50		357602-013
SP-10 A	S	Jan-05-10 12:55		357602-014
SP-11	S	Jan-05-10 13:05		357602-015
SP-12	S	Jan-05-10 13:20		357602-016
SP-12 A	S	Jan-05-10 13:30		357602-017
SP-13	S	Jan-05-10 13:45		357602-018
SP-14	S	Jan-05-10 14:00		357602-019
SP-15	S	Jan-05-10 14:15		357602-020
SP-16	S	Jan-05-10 14:30		357602-021
SP-17	S	Jan-05-10 14:45		357602-022
SP-18	S	Jan-05-10 15:00		357602-023
SP-19	S	Jan-05-10 15:15		357602-024
SP-19 A	S	Jan-05-10 15:25		357602-025
SP-20	S	Jan-05-10 15:50		357602-026
SP-21	S	Jan-05-10 16:15		357602-027

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield "BO" Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*12-JAN-10*
Work Order Number:	*357602*	*Date Received:*	*01/06/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-788416 Percent Moisture
None

Batch: LBA-788419 Percent Moisture
None

Batch: LBA-788427 Anions by E300
None

Batch: LBA-788428 Anions by E300
None

Batch: LBA-788467 BTEX by EPA 8021B
SW8021BM

Batch 788467, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 357602-013,357602-019,357602-017,357602-014.

Batch: LBA-788765 BTEX by EPA 8021B
SW8021BM

Batch 788765, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 357602-022.

Batch: LBA-788785 BTEX by EPA 8021B
SW8021BM

Batch 788785, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-007.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-005,357602-016,357602-008,357602-007.

SW8021BM

Batch 788785, Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 357602-005, -007, -008, -016.
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits

Batch: LBA-788825 TPH By SW8015 Mod
SW8015MOD_NM

Batch 788825, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 357602-017, -005, -009, -011, -014, -001, -003, -020, -002, -004, -006, -007, -008, -013, -015, -018, -010, -012, -016, -019.
The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield "BO" Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*12-JAN-10*
Work Order Number:	*357602*	*Date Received:*	*01/06/2010*

Batch: LBA-788827 BTEX by EPA 8021B
SW8021BM

Batch 788827, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-024.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-024.

SW8021BM

Batch 788827, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 357602-024.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-788838 TPH By SW8015 Mod
None

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-001		357602-002		357602-003		357602-004		357602-005		357602-006	
	Field Id:	SP-1		SP-2		SP-3		SP-4		SP-5		SP-5 A	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 10:20		Jan-05-10 10:35		Jan-05-10 10:50		Jan-05-10 11:05		Jan-05-10 11:20		Jan-05-10 11:30	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20.25		Jan-07-10 20:25		Jan-07-10 20.25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		548	26.2	568	23.3	2240	49.7	229	9.47	2280	47.0	1850	23.5
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15.00		Jan-06-10 15.00		Jan-06-10 15:00		Jan-06-10 15:00		Jan-07-10 15:45		Jan-06-10 15:00	
	Analyzed:	Jan-06-10 15.48		Jan-06-10 16:11		Jan-06-10 16.33		Jan-06-10 16:57		Jan-08-10 05:55		Jan-06-10 18:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0012	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011	ND	0 0011
Toluene		ND	0.0025	ND	0 0022	ND	0.0024	ND	0.0023	0.0105	0.0022	ND	0.0022
Ethylbenzene		0.0038	0.0012	ND	0.0011	ND	0.0012	ND	0.0011	0.0293	0.0011	ND	0.0011
m,p-Xylenes		0.0098	0.0025	ND	0.0022	0.0030	0.0024	ND	0.0023	0.0885	0.0022	ND	0.0022
o-Xylene		0.0055	0.0012	ND	0.0011	ND	0.0012	ND	0.0011	0.0092	0.0011	ND	0.0011
Total Xylenes		0.0153	0.0012	ND	0.0011	0.0030	0.0012	ND	0.0011	0.0977	0.0011	ND	0 0011
Total BTEX		0.0191	0.0012	ND	0.0011	0.0030	0.0012	ND	0.0011	0.1375	0.0011	ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17 00		Jan-06-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		19.8	1.00	9.79	1.00	15.5	1.00	11.3	1.00	10.7	1.00	10.6	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12.30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30	
	Analyzed:	Jan-08-10 12.11		Jan-08-10 12:38		Jan-08-10 13:04		Jan-08-10 13.30		Jan-08-10 13.56		Jan-08-10 14:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		39.0	18.8	ND	16.7	26.0	17.7	116	16.9	185	16.9	81.0	16.8
C12-C28 Diesel Range Hydrocarbons		278	18.8	137	16.7	137	17.7	414	16.9	602	16.9	149	16.8
C28-C35 Oil Range Hydrocarbons		29.0	18.8	ND	16.7	ND	17.7	47.9	16.9	ND	16.9	31.1	16.8
Total TPH		346	18.8	137	16.7	163	17.7	578	16.9	787	16.9	261	16.8

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-007		357602-008		357602-009		357602-010		357602-011		357602-012	
	Field Id:	SP-6		SP-6 A		SP-7		SP-8		SP-8 A		SP-9	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 11:45		Jan-05-10 11:55		Jan-05-10 12:05		Jan-05-10 12:20		Jan-05-10 12:25		Jan-05-10 12:35	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20.25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chlonde		561	9.24	829	9.49	1480	23.6	1060	48.2	1320	55.4	15.5	5.56
BTEX by EPA 8021B	*Extracted:*	Jan-07-10 15:45		Jan-07-10 15.45		Jan-06-10 15.00		Jan-06-10 15:00		Jan-06-10 15:00		Jan-06-10 15.00	
	Analyzed:	Jan-08-10 06:17		Jan-08-10 06:39		Jan-06-10 19:16		Jan-06-10 19:39		Jan-06-10 20:47		Jan-06-10 21:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0013
Toluene		0.0071	0.0022	ND	0.0023	ND	0.0022	ND	0.0023	ND	0.0026	ND	0.0027
Ethylbenzene		0.0110	0.0011	0.0037	0.0011	ND	0.0011	ND	0.0011	ND	0 0013	ND	0.0013
m,p-Xylenes		0.0244	0.0022	0.0072	0.0023	ND	0.0022	ND	0.0023	ND	0.0026	ND	0.0027
o-Xylene		0.0202	0.0011	0.0060	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0013
Total Xylenes		0.0446	0.0011	0.0132	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0013
Total BTEX		0.0627	0.0011	0.0169	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0013
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17·00		Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17:00		Jan-06-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.09	1.00	11.5	1.00	11.0	1.00	12.8	1.00	24.2	1.00	24.5	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12.30	
	Analyzed:	Jan-08-10 14:49		Jan-08-10 15.15		Jan-08-10 15.42		Jan-08-10 16:08		Jan-08-10 17.00		Jan-08-10 17.27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		218	16.5	240	16.9	229	16.8	238	17.2	45.1	19.8	44.3	19.9
C12-C28 Diesel Range Hydrocarbons		910	16.5	470	16.9	262	16.8	496	17.2	303	19.8	334	19.9
C28-C35 Oil Range Hydrocarbons		121	16.5	22.1	16.9	29.6	16.8	24.2	17.2	22.1	19.8	ND	19.9
Total TPH		1249	16.5	732	16.9	521	16.8	758	17.2	370	19.8	378	19.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	357602-013		357602-014		357602-015		357602-016		357602-017		357602-018	
	Field Id:	SP-10		SP-10 A		SP-11		SP-12		SP-12 A		SP-13	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 12:50		Jan-05-10 12:55		Jan-05-10 13.05		Jan-05-10 13:20		Jan-05-10 13:30		Jan-05-10 13:45	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20·25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1300	18.3	935	18.3	98.5	8.97	473	9 30	275	9.02	79.0	4.60
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15.00		Jan-06-10 15 00		Jan-06-10 15.00		Jan-07-10 15.45		Jan-06-10 15:00		Jan-06-10 15:00	
	Analyzed:	Jan-06-10 21:33		Jan-06-10 21:56		Jan-06-10 22:19		Jan-08-10 07:01		Jan-06-10 23:04		Jan-06-10 23:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0 0011
Toluene		0.0023	0.0022	ND	0.0022	ND	0.0021	ND	0.0022	ND	0.0021	ND	0.0022
Ethylbenzene		0.0168	0.0011	0 0011	0.0011	ND	0.0011	0.0078	0.0011	0.0024	0.0011	ND	0.0011
m,p-Xylenes		0.0523	0.0022	0.0035	0.0022	ND	0.0021	0.0281	0.0022	0.0083	0.0021	0.0024	0.0022
o-Xylene		0.0096	0.0011	ND	0.0011	ND	0.0011	0.0108	0.0011	0.0022	0.0011	ND	0.0011
Total Xylenes		0.0619	0.0011	0.0035	0.0011	ND	0.0011	0.0389	0.0011	0.0105	0 0011	0 0024	0.0011
Total BTEX		0.0810	0.0011	0.0046	0.0011	ND	0.0011	0.0467	0.0011	0.0129	0 0011	0.0024	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17·00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.44	1.00	7.98	1.00	6.31	1.00	9.65	1.00	6 92	1.00	8.77	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30	
	Analyzed:	Jan-08-10 17:53		Jan-08-10 18.19		Jan-08-10 18:45		Jan-08-10 19:11		Jan-08-10 19:37		Jan-08-10 20.03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		279	16.4	208	16.3	139	16.0	269	16.6	40.2	16.1	38.9	16 4
C12-C28 Diesel Range Hydrocarbons		519	16.4	324	16.3	238	16.0	653	16.6	106	16.1	495	16.4
C28-C35 Oil Range Hydrocarbons		29.3	16.4	19.5	16.3	28.3	16.0	22.1	16.6	ND	16.1	24.9	16.4
Total TPH		827	16.4	552	16.3	405	16.0	944	16.6	146	16.1	559	16.4

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1 000

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-019		357602-020		357602-021		357602-022		357602-023		357602-024	
	Field Id:	SP-14		SP-15		SP-16		SP-17		SP-18		SP-19	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 14:00		Jan-05-10 14:15		Jan-05-10 14:30		Jan-05-10 14:45		Jan-05-10 15:00		Jan-05-10 15:15	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 01:42		Jan-07-10 01:42		Jan-07-10 01:42		Jan-07-10 01 42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		257	9.07	732	8.90	164	4.47	70.2	5.55	607	8.93	131	10.6
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15:00		Jan-06-10 15.00		Jan-06-10 15:30		Jan-06-10 15:30		Jan-06-10 15:30		Jan-07-10 09:55	
	Analyzed:	Jan-06-10 23:49		Jan-07-10 00:12		Jan-07-10 08.19		Jan-07-10 08:41		Jan-07-10 09:03		Jan-09-10 04:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0011	0.2386	0.0314
Toluene		0.0028	0.0022	ND	0.0021	ND	0.0021	0.0189	0.0026	ND	0.0021	1.143	0.0628
Ethylbenzene		0 0084	0 0011	ND	0.0011	ND	0.0011	0.0312	0.0013	ND	0.0011	1.478	0.0314
m,p-Xylenes		0.0281	0.0022	ND	0.0021	ND	0.0021	0.0794	0.0026	0.0032	0.0021	3.484	0.0628
o-Xylene		0.0084	0.0011	ND	0.0011	ND	0.0011	0.0308	0.0013	0.0012	0.0011	1.186	0.0314
Total Xylenes		0.0365	0.0011	ND	0.0011	ND	0.0011	0.1102	0.0013	0.0044	0 0011	4.670	0.0314
Total BTEX		0.0477	0.0011	ND	0.0011	ND	0.0011	0.1603	0.0013	0.0044	0.0011	7.530	0.0314
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.38	1.00	5.64	1.00	5.99	1.00	24.3	1.00	5.95	1.00	20.7	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 13:00		Jan-07-10 13:00		Jan-07-10 13:00		Jan-07-10 13.00	
	Analyzed:	Jan-08-10 20:29		Jan-08-10 20.55		Jan-09-10 15:08		Jan-09-10 15:34		Jan-09-10 16:01		Jan-09-10 16:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		134	16.2	ND	15.9	ND	16.0	45.8	19.8	22.6	15.9	417	18.9
C12-C28 Diesel Range Hydrocarbons		270	16.2	35.4	15.9	ND	16.0	90.7	19.8	80.5	15.9	969	18.9
C28-C35 Oil Range Hydrocarbons		20.6	16.2	ND	15.9	ND	16 0	ND	19.8	ND	15.9	87.6	18.9
Total TPH		425	16.2	35.4	15.9	ND	16.0	136.5	19.8	103.1	15.9	1474	18.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	357602-025		357602-026		357602-027					
	Field Id:	SP-19 A		SP-20		SP-21					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jan-05-10 15:25		Jan-05-10 15:50		Jan-05-10 16:15					
Anions by E300	*Extracted:*										
	Analyzed:	Jan-07-10 01:42		Jan-07-10 01.42		Jan-07-10 01 42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	17.7	ND	4.34	650	23.6				
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15.30		Jan-06-10 15.30		Jan-06-10 15:30					
	Analyzed:	Jan-07-10 09:47		Jan-07-10 10:10		Jan-07-10 10:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0010	0.0013	0.0011				
Toluene		ND	0.0021	ND	0.0021	ND	0.0022				
Ethylbenzene		0.0015	0 0011	0.0012	0.0010	ND	0.0011				
m,p-Xylenes		0.0033	0.0021	ND	0.0021	ND	0.0022				
o-Xylene		0.0012	0.0011	ND	0.0010	ND	0.0011				
Total Xylenes		0.0045	0.0011	ND	0.0010	ND	0.0011				
Total BTEX		0.0060	0.0011	0.0012	0.0010	0.0013	0.0011				
Percent Moisture	*Extracted:*										
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		5.06	1.00	3.13	1.00	10.9	1.00				
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 13:00		Jan-07-10 13:00		Jan-07-10 13:00					
	Analyzed:	Jan-09-10 16.55		Jan-09-10 17:21		Jan-09-10 17.48					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.8	ND	15.5	ND	16.8				
C12-C28 Diesel Range Hydrocarbons		18.3	15.8	ND	15.5	343	16.8				
C28-C35 Oil Range Hydrocarbons		ND	15.8	ND	15.5	42.4	16.8				
Total TPH		18.3	15.8	ND	15.5	385	16.8				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 547095-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 13:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0343	0.0300	114	80-120	
4-Bromofluorobenzene	0 0330	0.0300	110	80-120	

Lab Batch #: 788467 **Sample:** 547095-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 14:16

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0 0300	112	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 788467 **Sample:** 547095-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 15:25

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 788467 **Sample:** 357602-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 15:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0350	0.0300	117	80-120	

Lab Batch #: 788467 **Sample:** 357602-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:11

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:33

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 18:07

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 788467 **Sample:** 357602-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 19:16

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0360	0.0300	120	80-120	

Lab Batch #: 788467 **Sample:** 357602-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 19:39

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0348	0.0300	116	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 20:47

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 788467 **Sample:** 357602-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:10

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0 0300	89	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 788467 **Sample:** 357602-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:33

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0497	0.0300	166	80-120	*

Lab Batch #: 788467 **Sample:** 357602-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0 0300	87	80-120	
4-Bromofluorobenzene	0.0371	0.0300	124	80-120	*

Lab Batch #: 788467 **Sample:** 357602-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 22:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:04

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0374	0.0300	125	80-120	*

Lab Batch #: 788467 **Sample:** 357602-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:27

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0424	0.0300	141	80-120	*

Lab Batch #: 788467 **Sample:** 357602-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:12

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 788467 **Sample:** 357602-015 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:34

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-015 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 06:29

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 06:51

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 07:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0 0293	0.0300	98	80-120	

Lab Batch #: 788765 **Sample:** 357602-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 08:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788765 **Sample:** 357602-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 08:41

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0 0459	0.0300	153	80-120	*

Lab Batch #: 788765 **Sample:** 357602-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 09:03

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 788765 **Sample:** 357602-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 09:47

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 788765 **Sample:** 357602-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 10:10

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 788765 **Sample:** 357602-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 10:32

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0241	0.0300	80	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788765 **Sample:** 357602-021 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 12:03

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 788765 **Sample:** 357602-021 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 12:25

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 788785 **Sample:** 547277-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 02:16

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 788785 **Sample:** 547277-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 03:00

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 788785 **Sample:** 357602-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 05:55

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0683	0.0300	228	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788785 **Sample:** 357602-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 06:17

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0232	0.0300	77	80-120	**
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 788785 **Sample:** 357602-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 06:39

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0368	0.0300	123	80-120	**

Lab Batch #: 788785 **Sample:** 357602-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0441	0.0300	147	80-120	**

Lab Batch #: 788785 **Sample:** 357700-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:23

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

Lab Batch #: 788785 **Sample:** 357700-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:45

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788827 **Sample:** 547316-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 20:33

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 788827 **Sample:** 547316-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 20:56

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 788827 **Sample:** 547316-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 21:41

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 788827 **Sample:** 357602-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 04:37

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0205	0.0300	68	80-120	**
4-Bromofluorobenzene	0.0362	0.0300	121	80-120	**

Lab Batch #: 788827 **Sample:** 357767-004 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 05:43

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788827 **Sample:** 357767-004 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 06:05

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0 0293	0.0300	98	80-120	

Lab Batch #: 788825 **Sample:** 547315-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 10:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	47.8	49.9	96	70-135	

Lab Batch #: 788825 **Sample:** 547315-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 11:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93 7	100	94	70-135	
o-Terphenyl	43.8	50.1	87	70-135	

Lab Batch #: 788825 **Sample:** 547315-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 11:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.2	99.7	86	70-135	
o-Terphenyl	49.4	49.9	99	70-135	

Lab Batch #: 788825 **Sample:** 357602-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 12:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.3	101	89	70-135	
o-Terphenyl	51.6	50.3	103	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 12:38

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.5	100	89	70-135	
o-Terphenyl	50.5	50.1	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	99.6	93	70-135	
o-Terphenyl	52.4	49.8	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:30

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	50.6	50.1	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	101	87	70-135	
o-Terphenyl	49.8	50.3	99	70-135	

Lab Batch #: 788825 **Sample:** 357602-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 14:23

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	49.8	50.1	99	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 14:49

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91 9	100	92	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 15:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.1	100	92	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 15:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	99.6	86	70-135	
o-Terphenyl	49.7	49 8	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 16:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	100	85	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	100	91	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	100	88	70-135	
o-Terphenyl	51.3	50.0	103	70-135	

Lab Batch #: 788825 **Sample:** 357602-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	52.7	50.0	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 18:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 18:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	99.7	85	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

Lab Batch #: 788825 **Sample:** 357602-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 19:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	100	94	70-135	
o-Terphenyl	54.7	50.0	109	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 19:37

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	100	92	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 788825 **Sample:** 357602-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.0	100	88	70-135	
o-Terphenyl	50.3	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	100	88	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:55

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-006 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 21:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	99.5	99	70-135	
o-Terphenyl	46.1	49.8	93	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-006 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 21:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.8	99.7	99	70-135	
o-Terphenyl	45.7	49.9	92	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 13:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.5	103	70-135	
o-Terphenyl	46.8	49.8	94	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 14:14

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	46 7	50.0	93	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 14:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	101	90	70-135	
o-Terphenyl	50.7	50.3	101	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 15:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	100	96	70-135	
o-Terphenyl	53.6	50.0	107	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788838 **Sample:** 357602-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 15:34

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	62.0	50.0	124	70-135	

Lab Batch #: 788838 **Sample:** 357602-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:01

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 788838 **Sample:** 357602-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:28

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	55.1	50.1	110	70-135	

Lab Batch #: 788838 **Sample:** 357602-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:55

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	100	91	70-135	
o-Terphenyl	51.5	50.0	103	70-135	

Lab Batch #: 788838 **Sample:** 357602-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 17:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	53.6	50.0	107	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788838 **Sample:** 357602-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 17:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	62.5	50.0	125	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/10 00:18

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	99.9	98	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/10 00:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	46.1	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

Blank Spike Recovery

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Lab Batch #: 788785 **Sample:** 547277-1-BKS **Matrix:** Solid
Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA
Reporting Units: mg/kg **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Benzene	ND	0.1000	0.0892	89	70-130	
Toluene	ND	0.1000	0.0907	91	70-130	
Ethylbenzene	ND	0.1000	0.0913	91	71-129	
m,p-Xylenes	ND	0.2000	0.1875	94	70-135	
o-Xylene	ND	0.1000	0.0987	99	71-133	

Lab Batch #: 788427 **Sample:** 788427-1-BKS **Matrix:** Solid
Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	10.6	106	75-125	

Lab Batch #: 788428 **Sample:** 788428-1-BKS **Matrix:** Solid
Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	10.7	107	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 01/06/2010 **Date Analyzed:** 01/06/2010

Lab Batch ID: 788467 **Sample:** 547095-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1029	103	0.1	0.1010	101	2	70-130	35	
Toluene	ND	0.1000	0.1055	106	0.1	0.1037	104	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1053	105	0.1	0.1035	104	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.2167	108	0.2	0.2126	106	2	70-135	35	
o-Xylene	ND	0.1000	0.1127	113	0.1	0.1108	111	2	71-133	35	

Analyst: ASA **Date Prepared:** 01/06/2010 **Date Analyzed:** 01/07/2010

Lab Batch ID: 788765 **Sample:** 547268-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0941	94	0.1	0.0932	93	1	70-130	35	
Toluene	ND	0.1000	0.0893	89	0.1	0.0912	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0869	87	0.1	0.0892	89	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.1780	89	0.2	0.1829	91	3	70-135	35	
o-Xylene	ND	0.1000	0.0940	94	0.1	0.0964	96	3	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 01/07/2010 **Date Analyzed:** 01/08/2010

Lab Batch ID: 788827 **Sample:** 547316-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0939	94	0.1	0.0928	93	1	70-130	35	
Toluene	ND	0.1000	0.0951	95	0.1	0.0944	94	1	70-130	35	
Ethylbenzene	ND	0.1000	0.0939	94	0.1	0.0938	94	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.1910	96	0.2	0.1913	96	0	70-135	35	
o-Xylene	ND	0.1000	0.1006	101	0.1	0.1011	101	0	71-133	35	

Analyst: BEV **Date Prepared:** 01/07/2010 **Date Analyzed:** 01/08/2010

Lab Batch ID: 788825 **Sample:** 547315-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	998	915	92	1000	849	85	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	945	95	1000	783	78	19	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Analyst: BEV **Date Prepared:** 01/07/2010 **Date Analyzed:** 01/09/2010

Lab Batch ID: 788838 **Sample:** 547321-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	ND	995	890	89	999	877	88	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	846	85	999	844	84	0	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602

Lab Batch #: 788427 **Project ID:** GP II Energy

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	548	748	1300	101	75-125	

Lab Batch #: 788428

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-021 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	164	160	323	99	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788467 **QC- Sample ID:** 357602-015 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/07/2010 **Date Prepared:** 01/06/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1067	0.0936	88	0.1067	0.0905	85	3	70-130	35	
Toluene	ND	0.1067	0.0942	88	0.1067	0.0914	86	3	70-130	35	
Ethylbenzene	ND	0.1067	0.0907	85	0.1067	0.0883	83	3	71-129	35	
m,p-Xylenes	ND	0.2135	0.1857	87	0.2135	0.1813	85	2	70-135	35	
o-Xylene	ND	0.1067	0.0965	90	0.1067	0.0935	88	3	71-133	35	

Lab Batch ID: 788765 **QC- Sample ID:** 357602-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/07/2010 **Date Prepared:** 01/06/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1064	0.0928	87	0.1064	0.0889	84	4	70-130	35	
Toluene	ND	0.1064	0.0952	89	0.1064	0.0902	85	5	70-130	35	
Ethylbenzene	ND	0.1064	0.0917	86	0.1064	0.0866	81	6	71-129	35	
m,p-Xylenes	ND	0.2127	0.1889	89	0.2127	0.1781	84	6	70-135	35	
o-Xylene	ND	0.1064	0.0965	91	0.1064	0.0910	86	6	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788785 **QC- Sample ID:** 357700-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1045	0.0749	72	0.1045	0.0699	67	7	70-130	35	X
Toluene	ND	0.1045	0.0750	72	0.1045	0.0719	69	4	70-130	35	X
Ethylbenzene	ND	0.1045	0.0731	70	0.1045	0.0727	70	1	71-129	35	X
m,p-Xylenes	ND	0.2090	0.1497	72	0.2090	0.1499	72	0	70-135	35	
o-Xylene	ND	0.1045	0.0775	74	0.1045	0.0767	73	1	71-133	35	

Lab Batch ID: 788827 **QC- Sample ID:** 357767-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/09/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1237	0.0161	13	0.1232	0.0181	15	12	70-130	35	X
Toluene	ND	0.1237	0.0104	8	0.1232	0.0131	11	23	70-130	35	X
Ethylbenzene	ND	0.1237	0.0139	11	0.1232	0.0160	13	14	71-129	35	X
m,p-Xylenes	ND	0.2474	0.0284	11	0.2464	0.0313	13	10	70-135	35	X
o-Xylene	ND	0.1237	0.0162	13	0.1232	0.0183	15	12	71-133	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788825 **QC- Sample ID:** 357602-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	81.0	1110	973	80	1120	977	80	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	149	1110	901	68	1120	919	69	2	70-135	35	X

Lab Batch ID: 788838 **QC- Sample ID:** 357602-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/10/2010 **Date Prepared:** 01/07/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1060	931	88	1060	921	87	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1060	872	82	1060	861	81	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602

Lab Batch #: 788427 **Project ID:** GP II Energy

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	548	547	0	20	

Lab Batch #: 788428

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	164	160	2	20	

Lab Batch #: 788416

Date Analyzed: 01/06/2010 **Date Prepared:** 01/06/2010 **Analyst:** MOV

QC- Sample ID: 357602-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	19.8	20.7	5	20	

Lab Batch #: 788419

Date Analyzed: 01/06/2010 **Date Prepared:** 01/06/2010 **Analyst:** MOV

QC- Sample ID: 357602-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.99	5.83	3	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Odessa, Texas 79765

Phone: 432-563-1800
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Project Manager: Curt Stanley (Page 1 of 3)
Company Name: GP II Energy
Company Address: P.O. Box 50682
City/State/Zip: Midland, Texas 79710
Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature:
e-mail: cdstanley@basin-consulting.com

Project Name: Littlefield "BO" Fed #2
Project #: GP II Energy
Project Loc: Eddy County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 357602

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M	TOTAL: TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP-1			1/5/2010	1020		1	X								Soil	X								X			X			X
02	SP-2			1/5/2010	1035		1	X								Soil	X								X			X			X
03	SP-3			1/5/2010	1050		1	X								Soil	X								X			X			X
04	SP-4			1/5/2010	1105		1	X								Soil	X								X			X			X
05	SP-5			1/5/2010	1120		1	X								Soil	X								X			X			X
06	SP-5A			1/5/2010	1130		1	X								Soil	X								X			X			X
07	SP-6			1/5/2010	1145		1	X								Soil	X								X			X			X
08	SP-6A			1/5/2010	1155		1	X								Soil	X								X			X			X
09	SP-7			1/5/2010	1205		1	X								Soil	X								X			X			X
10	SP-8			1/5/2010	1220		1	X								Soil	X								X			X			X

Special Instructions:
BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Lam	1-6-10	9:53

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
4oz glass
Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley (Page 2 of 3)
Company Name: GP II Energy
Company Address: P.O. Box 50682
City/State/Zip: Midland, Texas 79710
Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature:
e-mail: cdstanley@basin-consulting.com

Project Name: Littlefield "BO" Fed #2
Project #: GP II Energy
Project Loc: Eddy County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 357602

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	SP-8A			1/5/2010	1225		1	X								Soil	X										X			X			X
12	SP-9			1/5/2010	1235		1	X								Soil	X										X			X			X
13	SP-10			1/5/2010	1250		1	X								Soil	X										X			X			X
14	SP-10A			1/5/2010	1255		1	X								Soil	X										X			X			X
15	SP-11			1/5/2010	1305		1	X								Soil	X										X			X			X
16	SP-12			1/5/2010	1320		1	X								Soil	X										X			X			X
17	SP-12A			1/5/2010	1330		1	X								Soil	X										X			X			X
18	SP-13			1/5/2010	1345		1	X								Soil	X										X			X			X
19	SP-14			1/5/2010	1400		1	X								Soil	X										X			X			X
20	SP-15			1/5/2010	1415		1	X								Soil	X										X			X			X

Special Instructions:
BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam	1.6.10	9:53

Laboratory Comments:
Sample Containers intact? Y
VOCs Free of Headspace? N
Labels on container(s) Y
Custody seals on container(s) N
Custody seals on cooler(s) N/A
Sample Hand Delivered N
by Sampler/Client Rep. ? N
by Courier? UPS DHL FedEx Lone Star
4 oz glass
Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley (Page 3 of 3)
Company Name: GP II Energy
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Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature:
e-mail: cdstanley@basin-consulting.com

Project Name: Littlefield "BO" Fed #2
Project #: GP II Energy
Project Loc: Eddy County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 357602

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	BAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
21	SP-16			1/5/2010	1430		1	X								Soil	X										X			X			X
22	SP-17			1/5/2010	1445		1	X								Soil	X										X			X			X
23	SP-18			1/5/2010	1500		1	X								Soil	X										X			X			X
24	SP-19			1/5/2010	1515		1	X								Soil	X										X			X			X
25	SP-19A			1/5/2010	1525		1	X								Soil	X										X			X			X
26	SP-20			1/5/2010	1550		1	X								Soil	X										X			X			X
27	SP-21			1/5/2010	1615		1	X								Soil	X										X			X			X

Special Instructions:
BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Fern	1.6.10	9:53

Laboratory Comments:

Sample Containers intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered	N
by Sampler/Client Rep. ?	N
by Courier? UPS DHL FedEx Lone Star	
402 91955	
Temperature Upon Receipt: 3.6 °C	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 1.6.10 9:53

Lab ID #: 357602

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 365995

for

GP II Energy

Project Manager: Joe Compton

Littlefield BO Fed # 2

GP II Energy

22-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

22-MAR-10

Project Manager: **Joe Compton**
GP II Energy
P.O. Box 50682
Midland, TX 79710

Reference: XENCO Report No: **365995**
Littlefield BO Fed # 2
Project Address: Eddy County, New Mexico

Joe Compton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 365995. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 365995 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 365995

GP II Energy, Midland, TX

Littlefield BO Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile # 1	S	Mar-17-10 14:05		365995-001

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield BO Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*22-MAR-10*
Work Order Number:	*365995*	*Date Received:*	*03/18/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-798946 Percent Moisture
None

Batch: LBA-799186 Inorganic Anions by EPA 300
None

Batch: LBA-799197 TPH By SW8015 Mod
None

Certificate of Analysis Summary 365995

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 22-MAR-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	365995-001					
	Field Id:	Stockpile # 1					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Mar-17-10 14:05					
Anions by E300	*Extracted:*						
	Analyzed:	Mar-21-10 18:40					
	Units/RL:	mg/kg	RL				
Chlonde		61.2	9.15				
Percent Moisture	*Extracted:*						
	Analyzed:	Mar-18-10 17.00					
	Units/RL:	%	RL				
Percent Moisture		8.16	1.00				
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30					
	Analyzed:	Mar-20-10 12:42					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	16.3				
C12-C28 Diesel Range Hydrocarbons		129	16.3				
C28-C35 Oil Range Hydrocarbons		ND	16.3				
Total TPH		129	16.3				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365995,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 558678-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 20:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 799197 **Sample:** 558678-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 21:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	44.5	49.9	89	70-135	

Lab Batch #: 799197 **Sample:** 558678-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 21:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	100	97	70-135	
o-Terphenyl	48.9	50.2	97	70-135	

Lab Batch #: 799197 **Sample:** 365995-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 12:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	99.5	94	70-135	
o-Terphenyl	47.7	49.8	96	70-135	

Lab Batch #: 799197 **Sample:** 365996-038 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 13:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	45.0	49.9	90	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365995,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 365996-038 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 14:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Littlefield BO Fed # 2

Work Order #: 365995 **Project ID:** GP II Energy

Lab Batch #: 799186 **Sample:** 799186-1-BKS **Matrix:** Solid

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions by E300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	11.0	11.7	106	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Littlefield BO Fed # 2

Work Order #: 365995 **Project ID:** GP II Energy

Analyst: BEV **Date Prepared:** 03/18/2010 **Date Analyzed:** 03/19/2010

Lab Batch ID: 799197 **Sample:** 558678-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1120	112	998	1130	113	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	828	83	998	901	90	8	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Littlefield BO Fed # 2

Work Order #: 365995
Lab Batch #: 799186
Date Analyzed: 03/21/2010
QC- Sample ID: 365706-001 S
Reporting Units: mg/kg

Date Prepared: 03/21/2010
Batch #: 1

Project ID: GP II Energy
Analyst: LATCOR
Matrix: Sludge

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	3540	1200	4860	110	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield BO Fed # 2

Work Order # : 365995 **Project ID:** GP II Energy

Lab Batch ID: 799197 **QC- Sample ID:** 365996-038 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/20/2010 **Date Prepared:** 03/18/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1140	106	1080	1120	104	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	18.4	1080	851	77	1080	1090	99	25	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed # 2

Work Order #: 365995

Lab Batch #: 799186 **Project ID:** GP II Energy

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

QC- Sample ID: 365706-001 D **Batch #:** 1 **Matrix:** Sludge

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3540	3530	0	20	

Lab Batch #: 798946

Date Analyzed: 03/18/2010 **Date Prepared:** 03/18/2010 **Analyst:** JLG

QC- Sample ID: 365984-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.45	3.32	4	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Page 1 of 1

Project Manager: Curt Stanley

Company Name: GPII Energy (Attention Joe Compton)

Company Address: PO Box 50682

City/State/Zip: Midland, TX 79701

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 365995

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Stockpile #1			3/17/2010	1405		1	X								Soil	X								X						X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/18/10	0837			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	03-18-10	0837

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s)/labels Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 03-18-10 @ 0837

Lab ID # : 365995

Initials: JMF

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container? Label	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact. _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 365996

for

GP II Energy

Project Manager: Joe Compton

Littlefield BO Fed # 2

GP II Energy

29-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

29-MAR-10

Project Manager: **Joe Compton**
GP II Energy
P.O. Box 50682
Midland, TX 79710

Reference: XENCO Report No: **365996**
Littlefield BO Fed # 2
Project Address: Eddy County, New Mexico

Joe Compton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 365996. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 365996 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 365996

GP II Energy, Midland, TX

Littlefield BO Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Road F-1	S	Mar-17-10 08:00	3 ft	365996-001
Road SSW-1	S	Mar-17-10 08:20	2 ft	365996-002
Road F-2	S	Mar-17-10 08:40	3 ft	365996-003
Road NSW-2	S	Mar-17-10 09:00	2.5 ft	365996-004
Road F-3	S	Mar-17-10 09:20	2 ft	365996-005
Road SSW-3	S	Mar-17-10 09:40	1.5 ft	365996-006
Road F-4	S	Mar-17-10 10:00	2.5 ft	365996-007
Road NSW-4	S	Mar-17-10 10:20	2 ft	365996-008
Road F-5	S	Mar-17-10 10:40	7 ft	365996-009
Road SSW-5	S	Mar-17-10 11:00	6 ft	365996-010
Road F-6	S	Mar-17-10 11:20	7 ft	365996-011
Road NSW-6	S	Mar-17-10 11:40	6 ft	365996-012
ROW F-1	S	Mar-17-10 14:00	3 ft	365996-013
ROW ESW-1	S	Mar-17-10 14:10	2.5 ft	365996-014
ROW WSW-1	S	Mar-17-10 14:20	2.5 ft	365996-015
ROW F-2	S	Mar-17-10 14:40	7 ft	365996-016
ROW ESW-2	S	Mar-17-10 14:50	6 ft	365996-017
ROW SSW-2	S	Mar-17-10 15:00	6 ft	365996-018
ROW F-3	S	Mar-17-10 15:10	6 ft	365996-019
ROW NSW-3	S	Mar-17-10 15:20	5 ft	365996-020
ROW F-4	S	Mar-17-10 15:30	6 ft	365996-021
ROW SSW-4	S	Mar-17-10 15:40	5 ft	365996-022
ROW F-5	S	Mar-17-10 15:50	3 ft	365996-023
ROW NSW-5	S	Mar-17-10 16:00	2.5 ft	365996-024
ROW F-6	S	Mar-17-10 16:10	2.5 ft	365996-025
ROW SSW-6	S	Mar-17-10 16:20	1.5 ft	365996-026
ROW F-7	S	Mar-17-10 16:30	1 ft	365996-027
ROW NSW-7	S	Mar-17-10 16:40	6 In	365996-028
ROW F-8	S	Mar-17-10 16:50	2.5 ft	365996-029
ROW SSW-8	S	Mar-17-10 17:00	2 ft	365996-030
ROW F-9	S	Mar-17-10 17:10	3 ft	365996-031
ROW NSW-9	S	Mar-17-10 17:20	2.5 ft	365996-032
ROW F-10	S	Mar-17-10 17:30	2.5 ft	365996-033
ROW SSW-10	S	Mar-17-10 17:40	2 ft	365996-034
ROW F-11	S	Mar-17-10 17:50	2.5 ft	365996-035
ROW NSW-11	S	Mar-17-10 18:00	2 ft	365996-036
ROW F-12	S	Mar-17-10 18:10	1 ft	365996-037
ROW SSW-12	S	Mar-17-10 18:20	6 In	365996-038

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield BO Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*29-MAR-10*
Work Order Number:	*365996*	*Date Received:*	*03/18/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-798946 Percent Moisture
None

Batch: LBA-798948 Percent Moisture
None

Batch: LBA-798959 Percent Moisture
None

Batch: LBA-799186 Inorganic Anions by EPA 300
None

Batch: LBA-799193 Anions by E300
None

Batch: LBA-799194 TPH By SW8015 Mod
None

Batch: LBA-799197 TPH By SW8015 Mod
None

Batch: LBA-799944 BTEX by EPA 8021B
SW8021BM

Batch 799944, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 365996-003, -012, -018, -014, -017, -022, -030, -037, -013, -015, -009, -025, -033, -038, -026, -010, -011, -031.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-001		365996-002		365996-003		365996-004		365996-005		365996-006	
	Field Id:	Road F-1		Road SSW-1		Road F-2		Road NSW-2		Road F-3		Road SSW-3	
	Depth:	3- ft		2- ft		3- ft		2.5- ft		2- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 08:00		Mar-17-10 08:20		Mar-17-10 08:40		Mar-17-10 09:00		Mar-17-10 09:20		Mar-17-10 09:40	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		485	22.7	651	26.9	191	51.3	2870	46.1	852	26.4	246	26.6
BTEX by EPA 8021B	*Extracted:*					Mar-25-10 08:00							
	Analyzed:					Mar-25-10 15.52							
	Units/RL:					mg/kg	RL						
Benzene						ND	0.0012						
Toluene						ND	0.0025						
Ethylbenzene						ND	0.0012						
m,p-Xylenes						ND	0.0025						
o-Xylene						ND	0.0012						
Total Xylenes						ND	0.0012						
Total BTEX						ND	0.0012						
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17.00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		26.1	1.00	21.8	1.00	18.1	1.00	8.98	1.00	20.5	1.00	21.0	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30	
	Analyzed:	Mar-18-10 18:36		Mar-18-10 19:02		Mar-19-10 08:08		Mar-19-10 08:36		Mar-19-10 09.03		Mar-19-10 10.27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	20.3	ND	19.2	26.2	18.4	ND	16.4	ND	18.8	ND	18.9
C12-C28 Diesel Range Hydrocarbons		ND	20.3	ND	19.2	118	18.4	ND	16.4	ND	18.8	ND	18.9
C28-C35 Oil Range Hydrocarbons		ND	20.3	ND	19.2	ND	18.4	ND	16.4	ND	18.8	ND	18.9
Total TPH		ND	20.3	ND	19.2	144	18.4	ND	16.4	ND	18.8	ND	18.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-007		365996-008		365996-009		365996-010		365996-011		365996-012	
	Field Id:	Road F-4		Road NSW-4		Road F-5		Road SSW-5		Road F-6		Road NSW-6	
	Depth:	2.5- ft		2- ft		7- ft		6- ft		7- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 10:00		Mar-17-10 10:20		Mar-17-10 10:40		Mar-17-10 11:00		Mar-17-10 11:20		Mar-17-10 11:40	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18.40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		480	26.5	202	21.0	1630	23.3	2000	47.1	1230	47.2	1720	48.1
BTEX by EPA 8021B	*Extracted:*					Mar-25-10 08.00		Mar-25-10 08.00		Mar-25-10 08:00		Mar-25-10 08:00	
	Analyzed:					Mar-25-10 16:13		Mar-25-10 16.34		Mar-25-10 16.55		Mar-25-10 17:16	
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene						ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0012
Toluene						ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0023
Ethylbenzene						ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0012
m,p-Xylenes						ND	0.0022	ND	0.0022	ND	0.0022	ND	0 0023
o-Xylene						ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0012
Total Xylenes						ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0012
Total BTEX						ND	0.0011	ND	0.0011	ND	0.0011	ND	0 0012
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17:00		Mar-18-10 17.00		Mar-18-10 17:00		Mar-18-10 17.00		Mar-18-10 17.00		Mar-18-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		20.8	1.00	19.9	1.00	9.92	1.00	10.9	1.00	11.1	1.00	12.6	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14.30	
	Analyzed:	Mar-19-10 09.59		Mar-19-10 10:54		Mar-19-10 11:21		Mar-19-10 11:48		Mar-19-10 12:42		Mar-19-10 13:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	18.9	ND	18.8	ND	16.6	ND	16.8	ND	16.9	ND	17.1
C12-C28 Diesel Range Hydrocarbons		ND	18.9	ND	18.8	ND	16.6	ND	16.8	ND	16.9	42.9	17.1
C28-C35 Oil Range Hydrocarbons		ND	18.9	ND	18.8	ND	16.6	ND	16.8	ND	16.9	ND	17.1
Total TPH		ND	18.9	ND	18.8	ND	16.6	ND	16.8	ND	16.9	42.9	17.1

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-013		365996-014		365996-015		365996-016		365996-017		365996-018	
	Field Id:	ROW F-1		ROW ESW-1		ROW WSW-1		ROW F-2		ROW ESW-2		ROW SSW-2	
	Depth:	3- ft		2.5- ft		2.5- ft		7- ft		6- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 14:00		Mar-17-10 14:10		Mar-17-10 14:20		Mar-17-10 14.40		Mar-17-10 14:50		Mar-17-10 15:00	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18.40		Mar-21-10 18:40		Mar-21-10 18:40		Mar-21-10 18:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		70.0	4.51	76.5	8.96	1370	17.8	783	17.8	1640	21.5	1130	17.9
BTEX by EPA 8021B	*Extracted:*	Mar-25-10 08:00		Mar-25-10 08:00		Mar-25-10 08:00				Mar-25-10 08:00		Mar-25-10 08:00	
	Analyzed:	Mar-25-10 17:37		Mar-25-10 17.57		Mar-25-10 18:18				Mar-25-10 18:39		Mar-25-10 18:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011			ND	0.0010	ND	0.0011
Toluene		ND	0.0022	ND	0.0021	ND	0.0021			ND	0.0020	ND	0.0021
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011			ND	0.0010	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0021	ND	0.0021			ND	0.0020	ND	0.0021
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0011			ND	0.0010	ND	0.0011
Total Xylenes		ND	0.0011	ND	0.0011	ND	0.0011			ND	0.0010	ND	0.0011
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0011			ND	0.0010	ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17.00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17.00		Mar-18-10 17.00		Mar-18-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.96	1.00	6.25	1.00	5.81	1.00	5.86	1.00	2.11	1.00	6.37	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30	
	Analyzed:	Mar-19-10 13:36		Mar-19-10 14.03		Mar-19-10 14:30		Mar-19-10 14:58		Mar-19-10 15:25		Mar-19-10 15:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.1	ND	16.1	ND	15.9	ND	15.9	ND	15.3	ND	16.0
C12-C28 Diesel Range Hydrocarbons		ND	16.1	ND	16.1	ND	15.9	ND	15.9	ND	15.3	ND	16.0
C28-C35 Oil Range Hydrocarbons		ND	16.1	ND	16.1	ND	15.9	ND	15.9	ND	15.3	ND	16.0
Total TPH		ND	16.1	ND	16.1	ND	15.9	ND	15.9	ND	15.3	ND	16.0

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-019		365996-020		365996-021		365996-022		365996-023		365996-024	
	Field Id:	ROW F-3		ROW NSW-3		ROW F-4		ROW SSW-4		ROW F-5		ROW NSW-5	
	Depth:	6- ft		5- ft		6- ft		5- ft		3- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 15:10		Mar-17-10 15:20		Mar-17-10 15:30		Mar-17-10 15:40		Mar-17-10 15:50		Mar-17-10 16:00	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 23.59		Mar-21-10 23.59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23.59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		914	23.8	289	22.2	542	23.0	1870	46.1	247	9.17	83.3	4.35
BTEX by EPA 8021B	*Extracted:*							Mar-25-10 08.00					
	Analyzed:							Mar-25-10 20:01					
	Units/RL:							mg/kg	RL				
Benzene								ND	0.0011				
Toluene								ND	0.0022				
Ethylbenzene								ND	0.0011				
m,p-Xylenes								ND	0.0022				
o-Xylene								ND	0.0011				
Total Xylenes								ND	0.0011				
Total BTEX								ND	0.0011				
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.9	1.00	5.30	1.00	8.52	1.00	8.90	1.00	8.39	1.00	3.39	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14.30		Mar-18-10 14:30		Mar-18-10 14:30	
	Analyzed:	Mar-19-10 16:21		Mar-19-10 16:48		Mar-19-10 22.02		Mar-19-10 22:29		Mar-19-10 22:56		Mar-19-10 23:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.9	ND	15.8	ND	16.4	ND	16.4	ND	16.3	ND	15.5
C12-C28 Diesel Range Hydrocarbons		ND	16.9	ND	15.8	ND	16.4	ND	16.4	ND	16.3	ND	15.5
C28-C35 Oil Range Hydrocarbons		ND	16.9	ND	15.8	ND	16.4	ND	16.4	ND	16.3	ND	15.5
Total TPH		ND	16.9	ND	15.8	ND	16.4	ND	16.4	ND	16.3	ND	15.5

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-025		365996-026		365996-027		365996-028		365996-029		365996-030	
	Field Id:	ROW F-6		ROW SSW-6		ROW F-7		ROW NSW-7		ROW F-8		ROW SSW-8	
	Depth:	2.5- ft		1.5- ft		1- ft		6- In		2.5- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 16:10		Mar-17-10 16:20		Mar-17-10 16:30		Mar-17-10 16:40		Mar-17-10 16:50		Mar-17-10 17:00	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 23.59		Mar-21-10 23:59		Mar-21-10 23.59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		63 6	23.5	183	9.01	56.7	4.58	11.0	4.49	71.8	4.40	102	4.56
BTEX by EPA 8021B	*Extracted:*	Mar-25-10 08:00		Mar-25-10 08.00								Mar-25-10 08:00	
	Analyzed:	Mar-25-10 20:21		Mar-25-10 20:42								Mar-25-10 21:03	
	Units/RL:	mg/kg	RL	mg/kg	RL							mg/kg	RL
Benzene		ND	0.0011	ND	0.0011							ND	0.0011
Toluene		ND	0.0022	ND	0.0022							ND	0.0022
Ethylbenzene		ND	0.0011	ND	0.0011							ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0022							ND	0.0022
o-Xylene		ND	0.0011	ND	0.0011							ND	0.0011
Total Xylenes		ND	0.0011	ND	0.0011							ND	0.0011
Total BTEX		ND	0.0011	ND	0.0011							ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17 00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.5	1.00	6.79	1.00	8.34	1.00	6.46	1.00	4.53	1.00	7.92	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14:30		Mar-18-10 14.30		Mar-18-10 14:30		Mar-18-10 14:30	
	Analyzed:	Mar-19-10 23.49		Mar-20-10 00.16		Mar-20-10 00:43		Mar-20-10 01.10		Mar-20-10 01:36		Mar-20-10 02:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.8	ND	16.1	ND	16.4	ND	16.0	ND	15.6	ND	16.3
C12-C28 Diesel Range Hydrocarbons		137	16.8	207	16.1	ND	16.4	ND	16 0	ND	15.6	ND	16.3
C28-C35 Oil Range Hydrocarbons		ND	16.8	ND	16.1	ND	16.4	ND	16 0	ND	15.6	ND	16.3
Total TPH		137	16.8	207	16.1	ND	16.4	ND	16 0	ND	15.6	ND	16.3

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365996-031		365996-032		365996-033		365996-034		365996-035		365996-036	
	Field Id:	ROW F-9		ROW NSW-9		ROW F-10		ROW SSW-10		ROW F-11		ROW NSW-11	
	Depth:	3- ft		2.5- ft		2.5- ft		2- ft		2.5- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-17-10 17:10		Mar-17-10 17:20		Mar-17-10 17:30		Mar-17-10 17:40		Mar-17-10 17:50		Mar-17-10 18:00	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59		Mar-21-10 23:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		11.7	4.94	90.7	4.42	326	9.09	248	9.28	177	10.0	4.48	4.47
BTEX by EPA 8021B	*Extracted:*	Mar-25-10 08:00				Mar-25-10 08:00							
	Analyzed:	Mar-25-10 21:23				Mar-25-10 21:43							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Benzene		ND	0.0012			ND	0.0011						
Toluene		ND	0.0024			ND	0.0022						
Ethylbenzene		ND	0.0012			ND	0.0011						
m,p-Xylenes		ND	0.0024			ND	0.0022						
o-Xylene		ND	0.0012			ND	0.0011						
Total Xylenes		ND	0.0012			ND	0.0011						
Total BTEX		ND	0.0012			ND	0.0011						
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17:00		Mar-18-10 17.00		Mar-18-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		14.9	1.00	4.92	1.00	7.63	1.00	9.47	1.00	16.4	1.00	6.10	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14.30		Mar-18-10 14:30		Mar-18-10 14.30		Mar-18-10 14:30		Mar-18-10 14:30	
	Analyzed:	Mar-20-10 08:59		Mar-20-10 09.25		Mar-20-10 09.52		Mar-20-10 10:18		Mar-20-10 10:54		Mar-20-10 11:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		21.3	17.6	ND	15.7	ND	16.2	ND	16.6	ND	17.9	ND	15.9
C12-C28 Diesel Range Hydrocarbons		73.8	17.6	ND	15.7	45.5	16.2	ND	16.6	ND	17.9	ND	15.9
C28-C35 Oil Range Hydrocarbons		ND	17.6	ND	15.7	ND	16.2	ND	16.6	ND	17.9	ND	15.9
Total TPH		95.1	17.6	ND	15.7	45.5	16.2	ND	16.6	ND	17.9	ND	15.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365996

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed # 2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Mar-18-10 08:37 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	365996-037		365996-038					
	Field Id:	ROW F-12		ROW SSW-12					
	Depth:	1- ft		6- In					
	Matrix:	SOIL		SOIL					
	Sampled:	Mar-17-10 18:10		Mar-17-10 18:20					
Anions by E300	*Extracted:*								
	Analyzed:	Mar-21-10 23:59		Mar-21-10 23:59					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chlonde		31.5	4.46	154	9.05				
BTEX by EPA 8021B	*Extracted:*	Mar-25-10 08:00		Mar-25-10 08:00					
	Analyzed:	Mar-25-10 22:04		Mar-25-10 22:25					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0011				
Toluene		ND	0.0021	ND	0.0021				
Ethylbenzene		ND	0.0011	ND	0.0011				
m,p-Xylenes		ND	0.0021	ND	0.0021				
o-Xylene		ND	0.0011	ND	0.0011				
Total Xylenes		ND	0.0011	ND	0.0011				
Total BTEX		ND	0.0011	ND	0.0011				
Percent Moisture	*Extracted:*								
	Analyzed:	Mar-18-10 17.00		Mar-18-10 17:00					
	Units/RL:	%	RL	%	RL				
Percent Moisture		5.88	1.00	7.21	1.00				
TPH By SW8015 Mod	*Extracted:*	Mar-18-10 14:30		Mar-18-10 14:30					
	Analyzed:	Mar-20-10 11:48		Mar-20-10 12:15					
	Units/RL:	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.1				
C12-C28 Diesel Range Hydrocarbons		242	15.9	18.4	16.1				
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	16 1				
Total TPH		242	15.9	18.4	16.1				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799944 **Sample:** 559142-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 09:35

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0251	0.0300	84	80-120	

Lab Batch #: 799944 **Sample:** 559142-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 09:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0 0300	94	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 799944 **Sample:** 559142-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 10:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 799944 **Sample:** 365996-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 15:52

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 799944 **Sample:** 365996-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 16:13

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799944 **Sample:** 365996-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 16:34

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 799944 **Sample:** 365996-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 16:55

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 799944 **Sample:** 365996-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 17:16

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 799944 **Sample:** 365996-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 17:37

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 799944 **Sample:** 365996-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 17:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799944 **Sample:** 365996-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 18:18

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 799944 **Sample:** 365996-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 18:39

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 799944 **Sample:** 365996-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 18:59

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 799944 **Sample:** 365996-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 20:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 799944 **Sample:** 365996-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 20:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0242	0.0300	81	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799944 **Sample:** 365996-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 20:42

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 799944 **Sample:** 365996-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 21:03

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 799944 **Sample:** 365996-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 21:23

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 799944 **Sample:** 365996-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 21:43

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 799944 **Sample:** 365996-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 22:04

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799944 **Sample:** 365996-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 22:25

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 799944 **Sample:** 365996-038 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 23:27

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 799944 **Sample:** 365996-038 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 23:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0245	0.0300	82	80-120	

Lab Batch #: 799194 **Sample:** 558676-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/18/10 17:16

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	42.5	50.0	85	70-135	

Lab Batch #: 799194 **Sample:** 558676-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/18/10 17:43

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.8	110	70-135	
o-Terphenyl	42.7	49.9	86	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799194 **Sample:** 558676-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/18/10 18:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.0	100	99	70-135	
o-Terphenyl	49.1	50.2	98	70-135	

Lab Batch #: 799194 **Sample:** 365996-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/18/10 18:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.9	100	96	70-135	
o-Terphenyl	46.8	50.1	93	70-135	

Lab Batch #: 799194 **Sample:** 365996-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/18/10 19:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.8	100	87	70-135	
o-Terphenyl	42.5	50.0	85	70-135	

Lab Batch #: 799194 **Sample:** 365996-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 08:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	45.5	50.2	91	70-135	

Lab Batch #: 799194 **Sample:** 365996-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 08:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.8	99.5	89	70-135	
o-Terphenyl	44.4	49.8	89	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799194 **Sample:** 365996-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 09:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.0	99 6	78	70-135	
o-Terphenyl	39.0	49 8	78	70-135	

Lab Batch #: 799194 **Sample:** 365996-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 09:59

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99 7	91	70-135	
o-Terphenyl	44.3	49.9	89	70-135	

Lab Batch #: 799194 **Sample:** 365996-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 10:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	99.8	88	70-135	
o-Terphenyl	43.3	49.9	87	70-135	

Lab Batch #: 799194 **Sample:** 365996-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 10:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	100	90	70-135	
o-Terphenyl	44.0	50.1	88	70-135	

Lab Batch #: 799194 **Sample:** 365996-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 11:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.3	99.9	94	70-135	
o-Terphenyl	47.1	50.0	94	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799194 **Sample:** 365996-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 11:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	99.9	91	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 799194 **Sample:** 365996-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 12:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.8	99.9	98	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

Lab Batch #: 799194 **Sample:** 365996-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 13:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	99.8	94	70-135	
o-Terphenyl	47.1	49.9	94	70-135	

Lab Batch #: 799194 **Sample:** 365996-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 13:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	99.9	96	70-135	
o-Terphenyl	47.2	50.0	94	70-135	

Lab Batch #: 799194 **Sample:** 365996-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 14:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	101	99	70-135	
o-Terphenyl	49.4	50.3	98	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799194 **Sample:** 365996-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 14:30

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	99.8	85	70-135	
o-Terphenyl	42.7	49.9	86	70-135	

Lab Batch #: 799194 **Sample:** 365996-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 14:58

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	99.5	93	70-135	
o-Terphenyl	45.9	49.8	92	70-135	

Lab Batch #: 799194 **Sample:** 365996-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 15:25

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99.9	90	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 799194 **Sample:** 365996-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 15:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.9	89	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 799194 **Sample:** 365996-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 16:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	99.5	90	70-135	
o-Terphenyl	44.8	49.8	90	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799194 **Sample:** 365996-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 16:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.7	99.5	85	70-135	
o-Terphenyl	42.2	49.8	85	70-135	

Lab Batch #: 799194 **Sample:** 365996-020 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 17:32

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	43.2	50.2	86	70-135	

Lab Batch #: 799194 **Sample:** 365996-020 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 17:59

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 799197 **Sample:** 558678-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 20:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 799197 **Sample:** 558678-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 21:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	44.5	49.9	89	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 558678-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/19/10 21:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	100	97	70-135	
o-Terphenyl	48.9	50.2	97	70-135	

Lab Batch #: 799197 **Sample:** 365996-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 22:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	99.8	89	70-135	
o-Terphenyl	45.1	49.9	90	70-135	

Lab Batch #: 799197 **Sample:** 365996-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 22:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.3	99.8	92	70-135	
o-Terphenyl	46.4	49.9	93	70-135	

Lab Batch #: 799197 **Sample:** 365996-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 22:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.3	99.6	95	70-135	
o-Terphenyl	47.1	49.8	95	70-135	

Lab Batch #: 799197 **Sample:** 365996-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 23:22

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	99.8	95	70-135	
o-Terphenyl	47.2	49.9	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 365996-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/19/10 23:49

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.1	100	92	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

Lab Batch #: 799197 **Sample:** 365996-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 00:16

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	47.4	50.0	95	70-135	

Lab Batch #: 799197 **Sample:** 365996-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 00:43

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.7	100	95	70-135	
o-Terphenyl	47.1	50.0	94	70-135	

Lab Batch #: 799197 **Sample:** 365996-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 01:10

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	99.7	92	70-135	
o-Terphenyl	45.7	49.9	92	70-135	

Lab Batch #: 799197 **Sample:** 365996-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 01:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	99.5	96	70-135	
o-Terphenyl	47.4	49.8	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 365996-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 02:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 799197 **Sample:** 365996-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 08:59

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.8	89	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

Lab Batch #: 799197 **Sample:** 365996-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 09:25

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99.7	91	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

Lab Batch #: 799197 **Sample:** 365996-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 09:52

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.7	99	70-135	
o-Terphenyl	49.3	49.9	99	70-135	

Lab Batch #: 799197 **Sample:** 365996-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 10:18

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.0	100	95	70-135	
o-Terphenyl	48.0	50.1	96	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 365996-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 10:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	99.5	96	70-135	
o-Terphenyl	46.9	49.8	94	70-135	

Lab Batch #: 799197 **Sample:** 365996-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 11:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.7	92	70-135	
o-Terphenyl	45.3	49.9	91	70-135	

Lab Batch #: 799197 **Sample:** 365996-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 11:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	99.6	94	70-135	
o-Terphenyl	47.8	49.8	96	70-135	

Lab Batch #: 799197 **Sample:** 365996-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 12:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	99.5	93	70-135	
o-Terphenyl	46.1	49.8	93	70-135	

Lab Batch #: 799197 **Sample:** 365996-038 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 13:36

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	45.0	49.9	90	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed # 2

Work Orders : 365996,

Project ID: GP II Energy

Lab Batch #: 799197 **Sample:** 365996-038 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/20/10 14:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Littlefield BO Fed # 2

Work Order #: 365996 **Project ID:** GP II Energy

Lab Batch #: 799186 **Sample:** 799186-1-BKS **Matrix:** Solid

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	11.0	11.7	106	75-125	

Lab Batch #: 799193 **Sample:** 799193-1-BKS **Matrix:** Solid

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	11.0	11.1	101	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Littlefield BO Fed # 2

Work Order #: 365996 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 03/25/2010 **Date Analyzed:** 03/25/2010

Lab Batch ID: 799944 **Sample:** 559142-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0861	86	0.1	0.0873	87	1	70-130	35	
Toluene	ND	0.1000	0.0841	84	0.1	0.0860	86	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0859	86	0.1	0.0883	88	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.1717	86	0.2	0.1767	88	3	70-135	35	
o-Xylene	ND	0.1000	0.0827	83	0.1	0.0852	85	3	71-133	35	

Analyst: BEV **Date Prepared:** 03/18/2010 **Date Analyzed:** 03/18/2010

Lab Batch ID: 799194 **Sample:** 558676-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1070	107	998	1110	111	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	849	85	998	879	88	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

XENCO Laboratories

BS / BSD Recoveries

Project Name: Littlefield BO Fed # 2

Work Order #: 365996
Analyst: BEV
Lab Batch ID: 799197
Sample: 558678-1-BKS
Units: mg/kg

Date Prepared: 03/18/2010
Batch #: 1

Project ID: GP II Energy
Date Analyzed: 03/19/2010
Matrix: Solid

TPH By SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1120	112	998	1130	113	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	828	83	998	901	90	8	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Littlefield BO Fed # 2

Work Order #: 365996

Lab Batch #: 799186 **Project ID:** GP II Energy

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

QC- Sample ID: 365706-001 S **Batch #:** 1 **Matrix:** Sludge

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	3540	1200	4860	110	75-125	

Lab Batch #: 799193

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

QC- Sample ID: 365996-019 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	914	454	1370	100	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield BO Fed # 2

Work Order # : 365996 **Project ID:** GP II Energy

Lab Batch ID: 799944 **QC- Sample ID:** 365996-038 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/25/2010 **Date Prepared:** 03/25/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1069	0.0718	67	0.1067	0.0671	63	7	70-130	35	X
Toluene	ND	0.1069	0.0676	63	0.1067	0.0616	58	9	70-130	35	X
Ethylbenzene	ND	0.1069	0.0644	60	0.1067	0.0587	55	9	71-129	35	X
m,p-Xylenes	ND	0.2138	0.1205	56	0.2134	0.1062	50	13	70-135	35	X
o-Xylene	ND	0.1069	0.0623	58	0.1067	0.0543	51	14	71-133	35	X

Lab Batch ID: 799194 **QC- Sample ID:** 365996-020 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/19/2010 **Date Prepared:** 03/18/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1060	1110	105	1060	1110	105	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1060	919	87	1060	968	91	5	70-135	35	

Lab Batch ID: 799197 **QC- Sample ID:** 365996-038 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/20/2010 **Date Prepared:** 03/18/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1140	106	1080	1120	104	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	18.4	1080	851	77	1080	1090	99	25	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed # 2

Work Order #: 365996

Lab Batch #: 799186 **Project ID:** GP II Energy

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

QC- Sample ID: 365706-001 D **Batch #:** 1 **Matrix:** Sludge

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3540	3530	0	20	

Lab Batch #: 799193

Date Analyzed: 03/21/2010 **Date Prepared:** 03/21/2010 **Analyst:** LATCOR

QC- Sample ID: 365996-019 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	914	902	1	20	

Lab Batch #: 798946

Date Analyzed: 03/18/2010 **Date Prepared:** 03/18/2010 **Analyst:** JLG

QC- Sample ID: 365984-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.45	3.32	4	20	

Lab Batch #: 798948

Date Analyzed: 03/18/2010 **Date Prepared:** 03/18/2010 **Analyst:** JLG

QC- Sample ID: 365996-013 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.96	6.84	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed # 2

Work Order #: 365996

Lab Batch #: 798959 **Project ID:** GP II Energy

Date Analyzed: 03/18/2010 **Date Prepared:** 03/18/2010 **Analyst:** JLG

QC- Sample ID: 365996-033 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.63	7.28	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 1 of 4

Project Name: Littlefield BO Fed #2

Company Name: GPII Energy (Attention Joe Compton)

Project #: GP II Energy

Company Address: PO Box 50682

Project Loc: Eddy County, New Mexico

City/State/Zip: Midland, TX 79701

PO #:

Telephone No: 575-441-2244 Fax No: 575-396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature:

e-mail: cstanley@basinenv.com

(lab use only)

ORDER #: 365996

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers 402965	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 X	RCI	N.O.R.M.	Chloride EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Road F-1	3'		3/17/2010	0800		1	X								Soil	X											X			X
02	Road SSW-1	2'		3/17/2010	0820		1	X								Soil	X											X			X
03	Road F-2	3'		3/17/2010	0840		1	X								Soil	X											X			X
04	Road NSW-2	2.5'		3/17/2010	0900		1	X								Soil	X											X			X
05	Road F-3	2'		3/17/2010	0920		1	X								Soil	X											X			X
06	Road SSW-3	1.5'		3/17/2010	0940		1	X								Soil	X											X			X
07	Road F-4	2.5		3/17/2010	1000		1	X								Soil	X											X			X
08	Road NSW-4	2'		3/17/2010	1020		1	X								Soil	X											X			X
09	Road F-5	7'		3/17/2010	1040		1	X								Soil	X											X			X
10	Road SSW-5	6'		3/17/2010	1100		1	X								Soil	X											X			X

Special Instructions:

BILL TO GP II Energy

	Date	Time		Date	Time
Relinquished by:	3/18/10	0837	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by ELOT: Jaime Fitch	03-18-10	0837

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) / label Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 2 of 4

Company Name: GPII Energy (Attention Joe Compton)

Company Address: PO Box 50682

City/State/Zip: Midland, TX 79701

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 365996

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers 4-02-9	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	Road F-6	7'		3/17/2010	1120		1	X								Soil	X											X			X
12	Road NSW-6	6'		3/17/2010	1140		1	X								Soil	X											X			X
13	ROW F-1	3'		3/17/2010	1400		1	X								Soil	X											X			X
14	ROW ESW-1	2.5'		3/17/2010	1410		1	X								Soil	X											X			X
15	ROW WSW-1	2.5'		3/17/2010	1420		1	X								Soil	X											X			X
16	ROW F-2	7'		3/17/2010	1440		1	X								Soil	X											X			X
17	ROW ESW-2	6'		3/17/2010	1450		1	X								Soil	X											X			X
18	ROW SSW-2	6'		3/17/2010	1500		1	X								Soil	X											X			X
19	ROW F-3	6'		3/17/2010	1510		1	X								Soil	X											X			X
20	ROW NSW-3	5'		3/17/2010	1520		1	X								Soil	X											X			X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/18/10	0837			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jaime Fitch	03-18-10	0837

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) / labels Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 3 of 4

Project Name: Littlefield BO Fed #2

Company Name: GPII Energy (Attention Joe Compton)

Project #: GP II Energy

Company Address: PO Box 50682

Project Loc: Eddy County, New Mexico

City/State/Zip: Midland, TX 79701

PO #:

Telephone No: 575-441-2244 Fax No: 575-396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature:

e-mail: cstanley@basinenv.com

(lab use only)

ORDER #: 365996

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
21	ROW F-4	6'		3/17/2010	1530		1	X								Soil	X											X			X
22	ROW SSW-4	5'		3/17/2010	1540		1	X								Soil	X											X			X
23	ROW F-5	3'		3/17/2010	1550		1	X								Soil	X											X			X
24	ROW NSW-5	2.5'		3/17/2010	1600		1	X								Soil	X											X			X
25	ROW F-6	2.5'		3/17/2010	1610		1	X								Soil	X											X			X
26	ROW SSW-6	1.5'		3/17/2010	1620		1	X								Soil	X											X			X
27	ROW F-7	1'		3/17/2010	1630		1	X								Soil	X											X			X
28	ROW NSW-7	6"		3/17/2010	1640		1	X								Soil	X											X			X
29	ROW F-8	2.5'		3/17/2010	1650		1	X								Soil	X											X			X
30	ROW SSW-8	2'		3/17/2010	1700		1	X								Soil	X											X			X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/18/10	0837			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jessica Fitch	03-18-10	0837

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) 1 labels Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Final Ver 1.000

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 4 of 4

Company Name: GPII Energy (Attention Joe Compton)

Company Address: PO Box 50682

City/State/Zip: Midland, TX 79701

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 365996

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides/EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
31	ROW F-9	3'		3/17/2010	1710		1	X								Soil	X											X			X
32	ROW NSW-9	2.5'		3/17/2010	1720		1	X								Soil	X											X			X
33	ROW F-10	2.5'		3/17/2010	1730		1	X								Soil	X											X			X
34	ROW SSW-10	2'		3/17/2010	1740		1	X								Soil	X											X			X
35	ROW F-11	2.5'		3/17/2010	1750		1	X								Soil	X											X			X
36	ROW NSW-11	2'		3/17/2010	1800		1	X								Soil	X											X			X
37	ROW F-12	1'		3/17/2010	1810		1	X								Soil	X											X			X
38	ROW SSW-12	6"		3/17/2010	1820		1	X								Soil	X											X			X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/12/10	0837			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jeanne Fitch	Date 03-18-10	Time 0837

Laboratory Comments:

VOCs Free of Headspace? (Y) N

Custody seals on container(s) (Y) N

Sample Hand Delivered (Y) N

by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 03-18-10 @ 0837

Lab ID # : 365994

Initials: JMF

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container? (label)	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 366698

for

GP II Energy

Project Manager: Curt Stanley

Littlefield BO Fed #2

GP II Energy

29-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

29-MAR-10

Project Manager: **Curt Stanley**
GP II Energy
P.O. Box 50682
Midland, TX 79710

Reference: XENCO Report No: **366698**
Littlefield BO Fed #2
Project Address: Eddy County, New Mexico

Curt Stanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 366698. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 366698 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 366698

GP II Energy, Midland, TX

Littlefield BO Fed #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Road F-13	S	Mar-22-10 11:00	8 ft	366698-001
Road NSW-13	S	Mar-22-10 11:10	7 ft	366698-002
Road F-14 (9')	S	Mar-22-10 15:00	9 ft	366698-003
Road F-14 (14')	S	Mar-22-10 15:10	14 ft	366698-004
Background @ 8'	S	Mar-22-10 17:00	8 ft	366698-005
Road F -12.5 (10')	S	Mar-23-10 10:45	10 ft	366698-006
Road F-12.5 (16')	S	Mar-23-10 10:50	16 ft	366698-007

* TRRP Tier I Comm/Indus Soils PCL's

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield BO Fed #2

Project ID:	*GP II Energy*	*Report Date:*	*29-MAR-10*
Work Order Number:	*366698*	*Date Received:*	*03/24/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-799826 Percent Moisture
None

Batch: LBA-799880 TPH By SW8015 Mod
None

Batch: LBA-800153 Inorganic Anions by EPA 300
None

Certificate of Analysis Summary 366698

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Mar-24-10 08:30 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	366698-001		366698-002		366698-003		366698-004		366698-005		366698-006	
	Field Id:	Road F-13		Road NSW-13		Road F-14 (9')		Road F-14 (14')		Background @ 8'		Road F -12.5 (10')	
	Depth:	8- ft		7- ft		9- ft		14- ft		8- ft		10- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-22-10 11:00		Mar-22-10 11:10		Mar-22-10 15:00		Mar-22-10 15:10		Mar-22-10 17:00		Mar-23-10 10:45	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-26-10 12:00		Mar-26-10 12:00		Mar-26-10 12:00		Mar-26-10 12:00		Mar-26-10 12:00		Mar-26-10 12.00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		943	25.4	2530	102	561	24.1	403	49.1	43.5	21.9	356	53.9
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-25-10 12:00		Mar-25-10 12:00		Mar-25-10 12:00		Mar-25-10 12:00		Mar-25-10 12:00		Mar-25-10 12:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		17.3	1.00	17.5	1.00	12.8	1.00	14.4	1.00	4.01	1.00	22.1	1 00
TPH By SW8015 Mod	*Extracted:*	Mar-25-10 10:00		Mar-25-10 10.00		Mar-25-10 10:00		Mar-25-10 10:00					
	Analyzed:	Mar-25-10 20:50		Mar-25-10 21.17		Mar-25-10 21:44		Mar-25-10 22:11					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	18.1	ND	18.2	ND	17.2	ND	17.5				
C12-C28 Diesel Range Hydrocarbons		23.1	18.1	19.7	18.2	21.2	17.2	21.4	17.5				
C28-C35 Oil Range Hydrocarbons		ND	18.1	ND	18.2	ND	17.2	ND	17.5				
Total TPH		23.1	18.1	19.7	18.2	21.2	17.2	21.4	17.5				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 366698

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Mar-24-10 08:30 am
Report Date: 29-MAR-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	366698-007					
	Field Id:	Road F-12.5 (16')					
	Depth:	16- ft					
	Matrix:	SOIL					
	Sampled:	Mar-23-10 10:50					
Anions by E300	*Extracted:*						
	Analyzed:	Mar-26-10 12:00					
	Units/RL:	mg/kg	RL				
Chloride		419	43.2				
Percent Moisture	*Extracted:*						
	Analyzed:	Mar-25-10 12:00					
	Units/RL:	%	RL				
Percent Moisture		2.89	1.00				

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 366698,

Project ID: GP II Energy

Lab Batch #: 799880 **Sample:** 559106-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 13:14

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.5	112	70-135	
o-Terphenyl	43.0	49.8	86	70-135	

Lab Batch #: 799880 **Sample:** 559106-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 13:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.6	114	70-135	
o-Terphenyl	43.2	49.8	87	70-135	

Lab Batch #: 799880 **Sample:** 559106-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/25/10 14:07

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	100	98	70-135	
o-Terphenyl	46.8	50.2	93	70-135	

Lab Batch #: 799880 **Sample:** 366698-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 20:50

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.8	100	87	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 799880 **Sample:** 366698-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 21:17

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.2	100	95	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 366698,

Project ID: GP II Energy

Lab Batch #: 799880 **Sample:** 366698-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 21:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 799880 **Sample:** 366698-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/25/10 22:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.6	100	95	70-135	
o-Terphenyl	47.2	50.0	94	70-135	

Lab Batch #: 799880 **Sample:** 366752-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/10 00:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	45.3	50.2	90	70-135	

Lab Batch #: 799880 **Sample:** 366752-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/26/10 00:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	43.4	50.1	87	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Littlefield BO Fed #2

Work Order #: 366698 **Project ID:** GP II Energy

Lab Batch #: 800153 **Sample:** 800153-1-BKS **Matrix:** Solid

Date Analyzed: 03/26/2010 **Date Prepared:** 03/26/2010 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	10.9	109	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 366698
Analyst: BEV
Lab Batch ID: 799880
Sample: 559106-1-BKS
Units: mg/kg

Date Prepared: 03/25/2010
Batch #: 1

Project ID: GP II Energy
Date Analyzed: 03/25/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	995	1040	105	996	1080	108	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	871	88	996	897	90	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 366698

Lab Batch #: 800153 **Project ID:** GP II Energy

Date Analyzed: 03/26/2010 **Date Prepared:** 03/26/2010 **Analyst:** LATCOR

QC- Sample ID: 366697-021 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	125	133	106	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order # : 366698 **Project ID:** GP II Energy

Lab Batch ID: 799880 **QC- Sample ID:** 366752-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/26/2010 **Date Prepared:** 03/25/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	1090	104	1050	1110	106	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1050	887	84	1050	979	93	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed #2

Work Order #: 366698

Lab Batch #: 800153 **Project ID:** GP II Energy

Date Analyzed: 03/26/2010 **Date Prepared:** 03/26/2010 **Analyst:** LATCOR

QC- Sample ID: 366697-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 799826

Date Analyzed: 03/25/2010 **Date Prepared:** 03/25/2010 **Analyst:** WRU

QC- Sample ID: 366697-028 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	20.3	20.0	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 1 of 1

Company Name: GPII Energy (Attention Joe Compton)

Company Address: PO Box 50682

City/State/Zip: Midland, TX 79701

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 366698

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	Road F-13	8'		3/22/2010	1100		1	X								Soil	X											X			X
002	Road NSW-13	7'		3/22/2010	1110		1	X								Soil	X											X			X
003	Road F-14 (9')	9'		3/22/2010	1500		1	X								Soil	X											X			X
004	Road F-14 (14')	14'		3/22/2010	1510		1	X								Soil	X											X			X
005	Background @ 8'	8'		3/22/2010	1700		1	X								Soil	X											X			X
006	Road F-12.5 (10')	10'		3/23/2010	1045		1	X								Soil												X			X
007	Road F-12.5 (16')	16'		3/23/2010	1050		1	X								Soil												X			X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/24/10	1120			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3/24/10	8:32

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) Y N

Sample Hand Delivered Y N

by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.2 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 3.24.10 8:30

Lab ID #: 366698

Initials: BB / AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	2.2 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 367141

for

GP II Energy

Project Manager: Joe Compton

Littlefield BO Fed #2

GP II Energy

07-APR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

07-APR-10

Project Manager: **Joe Compton**
GP II Energy
P.O. Box 50682(GP II Energy's Clients Address)
Midland, TX 79710

Reference: XENCO Report No: **367141**
Littlefield BO Fed #2
Project Address: Eddy County, New Mexico

Joe Compton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 367141. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 367141 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 367141

GP II Energy, Midland, TX

Littlefield BO Fed #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pit F-1	S	Mar-25-10 08:30	10 ft	367141-001
Pit SSW	S	Mar-25-10 08:40	5.5 ft	367141-002
Pit WSW	S	Mar-25-10 08:50	5.5 ft	367141-003
Pit NSW	S	Mar-25-10 09:00	5.5 ft	367141-004
Pit ESW	S	Mar-25-10 09:10	5.5 ft	367141-005
ROW WSW-1A	S	Mar-25-10 11:00	3 ft	367141-006
ROW F-2A	S	Mar-25-10 11:10	11 ft	367141-007
ROW F-3A	S	Mar-25-10 11:15	9 ft	367141-008
ROW F-6A	S	Mar-25-10 11:20	6 ft	367141-009
ROW SSW-6A	S	Mar-25-10 11:30	5.5 ft	367141-010
ROW F-12A	S	Mar-25-10 11:40	4 ft	367141-011
ROAD F-2A	S	Mar-25-10 11:46	6 ft	367141-012
ROAD NSW-2A	S	Mar-25-10 11:50	5.5 ft	367141-013
ROAD NSW-10.5	S	Mar-25-10 12:00	7 ft	367141-014
ROAD F-11	S	Mar-25-10 12:05	7 ft	367141-015
ROAD SSW-11	S	Mar-25-10 12:15	6.5 ft	367141-016
ROAD F-12	S	Mar-25-10 12:30	6 ft	367141-017
ROAD NSW-12	S	Mar-25-10 12:35	5.5 ft	367141-018
ROAD F-15	S	Mar-26-10 10:00	6 ft	367141-019
ROAD NSW-15	S	Mar-26-10 10:05	5.5 ft	367141-020
ROAD WSW-15	S	Mar-26-10 10:10	6.5 ft	367141-021
ROAD F-16	S	Mar-26-10 11:05	3.5 ft	367141-022
ROAD SSW-16	S	Mar-26-10 11:10	3 ft	367141-023
ROAD F-17	S	Mar-26-10 12:05	4 ft	367141-024
ROAD NSW-17	S	Mar-26-10 12:10	3.5 ft	367141-025

* TRRP Tier I Comm/Indus Soils PCL's

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield BO Fed #2

Project ID:	*GP II Energy*	*Report Date:*	*07-APR-10*
Work Order Number:	*367141*	*Date Received:*	*03/29/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-800382 TPH By SW8015 Mod
None

Batch: LBA-800385 TPH By SW8015 Mod
None

Batch: LBA-800406 Percent Moisture
None

Batch: LBA-800411 Percent Moisture
None

Batch: LBA-800464 Inorganic Anions by EPA 300
None

Batch: LBA-800467 Anions by E300
E300MI
Batch 800467, Chloride RPD is outside the QC limit. This is most likely due to sample non-homogeneity.
Samples affected are: 367141-023, -020, -022, -025, -024, -019, -021.

Batch: LBA-800469 TPH By SW8015 Mod
None

Batch: LBA-800506 BTEX by EPA 8021B
SW8021BM

Batch 800506, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 367141-001, -003, -004, -005, -002.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 367141

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	367141-001		367141-002		367141-003		367141-004		367141-005		367141-006	
	Field Id:	Pit F-1		Pit SSW		Pit WSW		Pit NSW		Pit ESW		ROW WSW-1A	
	Depth:	10- ft		5.5- ft		5.5- ft		5.5- ft		5.5- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-10 08:30		Mar-25-10 08:40		Mar-25-10 08:50		Mar-25-10 09:00		Mar-25-10 09:10		Mar-25-10 11:00	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00.09		Mar-31-10 00:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		210	9.61	623	23.9	438	24.2	153	18.9	39.1	18.4	115	21.1
BTEX by EPA 8021B	*Extracted:*	Mar-30-10 15:30		Mar-30-10 15.30		Mar-30-10 15:30		Mar-30-10 15:30		Mar-30-10 15:30			
	Analyzed:	Mar-31-10 02:59		Mar-31-10 03:22		Mar-31-10 03:45		Mar-31-10 04:07		Mar-31-10 04:30			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.0011	ND	0.0011	ND	0.0012	ND	0 0011	ND	0.0011		
Toluene		ND	0.0023	ND	0.0023	ND	0.0023	ND	0.0022	ND	0.0022		
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011		
m,p-Xylenes		ND	0.0023	ND	0.0023	ND	0.0023	ND	0.0022	ND	0.0022		
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011		
Total Xylenes		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011		
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0011		
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-30-10 17.00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		12.6	1.00	12.2	1.00	13.4	1.00	11.1	1.00	8.86	1.00	ND	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30			
	Analyzed:	Mar-31-10 00:24		Mar-31-10 00.50		Mar-31-10 01:17		Mar-31-10 01.44		Mar-31-10 00:15			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		19 2	17.2	20.8	17.1	19.3	17.3	20.4	16.9	ND	16.5		
C12-C28 Diesel Range Hydrocarbons		ND	17.2	ND	17.1	21.0	17.3	17.6	16.9	ND	16.5		
C28-C35 Oil Range Hydrocarbons		ND	17.2	ND	17.1	ND	17.3	ND	16.9	ND	16.5		
Total TPH		19.2	17.2	20.8	17.1	40.3	17.3	38.0	16.9	ND	16.5		

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 367141

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	367141-007		367141-008		367141-009		367141-010		367141-011		367141-012	
	Field Id:	ROW F-2A		ROW F-3A		ROW F-6A		ROW SSW-6A		ROW F-12A		ROAD F-2A	
	Depth:	11- ft		9- ft		6- ft		5.5- ft		4- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-10 11:10		Mar-25-10 11:15		Mar-25-10 11:20		Mar-25-10 11:30		Mar-25-10 11:40		Mar-25-10 11:46	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-31-10 00 09		Mar-31-10 00:09									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chlonde		1390	23.0	1030	22.8								
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-30-10 17.00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.60	1.00	7.78	1.00	19.5	1.00	8.50	1.00	23.7	1.00	18.9	1.00
TPH By SW8015 Mod	*Extracted:*					Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30	
	Analyzed:					Mar-31-10 00:45		Mar-31-10 01:15		Mar-31-10 01:45		Mar-31-10 02:16	
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons						ND	18.5	ND	16.4	ND	19.6	ND	18.4
C12-C28 Diesel Range Hydrocarbons						ND	18.5	ND	16.4	ND	19.6	ND	18.4
C28-C35 Oil Range Hydrocarbons						ND	18.5	19.1	16.4	ND	19.6	ND	18.4
Total TPH						ND	18 5	19.1	16.4	ND	19.6	ND	18.4

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 367141

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	367141-013		367141-014		367141-015		367141-016		367141-017		367141-018	
	Field Id:	ROAD NSW-2A		ROAD NSW-10.5		ROAD F-11		ROAD SSW-11		ROAD F-12		ROAD NSW-12	
	Depth:	5.5- ft		7- ft		7- ft		6.5- ft		6- ft		5.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-10 11:50		Mar-25-10 12:00		Mar-25-10 12:05		Mar-25-10 12:15		Mar-25-10 12:30		Mar-25-10 12:35	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09		Mar-31-10 00:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		429	46 2	851	24.7	667	48.4	1440	49.5	2790	47.4	505	19.3
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.02	1.00	14.9	1.00	13.3	1.00	15.2	1.00	11.4	1.00	13.1	1.00
TPH By SW8015 Mod	*Extracted:*					Mar-30-10 12.30		Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12 30	
	Analyzed:					Mar-31-10 02.49		Mar-31-10 03:22		Mar-31-10 06.43		Mar-31-10 07:10	
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons						ND	17.3	ND	17.6	17.7	16.9	ND	17.3
C12-C28 Diesel Range Hydrocarbons						ND	17.3	ND	17.6	ND	16.9	ND	17.3
C28-C35 Oil Range Hydrocarbons						ND	17.3	ND	17.6	ND	16.9	ND	17.3
Total TPH						ND	17.3	ND	17.6	17.7	16.9	ND	17.3

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 367141

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	367141-019		367141-020		367141-021		367141-022		367141-023		367141-024	
	Field Id:	ROAD F-15		ROAD NSW-15		ROAD WSW-15		ROAD F-16		ROAD SSW-16		ROAD F-17	
	Depth:	6- ft		5.5- ft		6.5- ft		3.5- ft		3- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-26-10 10:00		Mar-26-10 10:05		Mar-26-10 10:10		Mar-26-10 11:05		Mar-26-10 11:10		Mar-26-10 12:05	
Anions by E300	*Extracted:*												
	Analyzed:	Mar-31-10 05.27		Mar-31-10 05:27		Mar-31-10 05:27		Mar-31-10 05:27		Mar-31-10 05:27		Mar-31-10 05:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		348	18.2	64.3	18.7	110	23.6	98 5	47.2	1410	47.2	911	46.9
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-30-10 17:00		Mar-30-10 17.00		Mar-30-10 17.00		Mar-30-10 17:00		Mar-30-10 17:00		Mar-30-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.47	1.00	10.3	1.00	11 0	1.00	11.0	1.00	11.0	1.00	10.4	1.00
TPH By SW8015 Mod	*Extracted:*	Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12:30		Mar-30-10 12.30		Mar-30-10 12.30		Mar-30-10 12:30	
	Analyzed:	Mar-31-10 07:37		Mar-31-10 08:04		Mar-31-10 08:31		Mar-31-10 08:58		Mar-31-10 09:25		Mar-31-10 09.52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.2	ND	16.7	ND	16.8	ND	16.8	ND	16.8	ND	16.7
C12-C28 Diesel Range Hydrocarbons		17.0	16.2	ND	16.7	ND	16.8	ND	16.8	ND	16.8	ND	16.7
C28-C35 Oil Range Hydrocarbons		ND	16.2	ND	16.7	ND	16.8	ND	16.8	ND	16.8	ND	16.7
Total TPH		17.0	16.2	ND	16.7	ND	16.8	ND	16.8	ND	16.8	ND	16.7

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 367141

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Joe Compton
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Mar-29-10 08:50 am
Report Date: 07-APR-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	367141-025					
	Field Id:	ROAD NSW-17					
	Depth:	3.5- ft					
	Matrix:	SOIL					
	Sampled:	Mar-26-10 12:10					
Anions by E300	*Extracted:*						
	Analyzed:	Mar-31-10 05:27					
	Units/RL:	mg/kg	RL				
Chloride		63.0	9.45				
Percent Moisture	*Extracted:*						
	Analyzed:	Mar-30-10 17.00					
	Units/RL:	%	RL				
Percent Moisture		11.1	1 00				
TPH By SW8015 Mod	*Extracted:*	Mar-30-10 12:30					
	Analyzed:	Mar-31-10 10:19					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	16.8				
C12-C28 Diesel Range Hydrocarbons		ND	16.8				
C28-C35 Oil Range Hydrocarbons		ND	16.8				
Total TPH		ND	16.8				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800506 **Sample:** 559503-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 01:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0 0306	0.0300	102	80-120	

Lab Batch #: 800506 **Sample:** 559503-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 01:30

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 800506 **Sample:** 559503-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 02:37

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 800506 **Sample:** 367141-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 02:59

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

Lab Batch #: 800506 **Sample:** 367141-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 03:22

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800506 **Sample:** 367141-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 03:45

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 800506 **Sample:** 367141-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 04:07

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 800506 **Sample:** 367141-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 04:30

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

Lab Batch #: 800506 **Sample:** 367141-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 11:37

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 800506 **Sample:** 367141-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 11:59

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800382 **Sample:** 559420-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 15:20

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	99.7	115	70-135	
o-Terphenyl	54.6	49.9	109	70-135	

Lab Batch #: 800382 **Sample:** 559420-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 15:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.9	117	70-135	
o-Terphenyl	55.6	50.0	111	70-135	

Lab Batch #: 800382 **Sample:** 559420-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 16:14

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	60.6	50.1	121	70-135	

Lab Batch #: 800382 **Sample:** 367141-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 00:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	59.1	50.1	118	70-135	

Lab Batch #: 800382 **Sample:** 367141-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 00:50

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	62.0	50.1	124	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

*Surrogate Recovery [D] = 100 * A / B*

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141, **Project ID:** GP II Energy

Lab Batch #: 800382 **Sample:** 367141-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 01:17

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

Lab Batch #: 800382 **Sample:** 367141-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 01:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	57.6	50.0	115	70-135	

Lab Batch #: 800382 **Sample:** 367068-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 02:12

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	54.9	50.0	110	70-135	

Lab Batch #: 800382 **Sample:** 367068-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 02:39

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	99.5	121	70-135	
o-Terphenyl	57.1	49.8	115	70-135	

Lab Batch #: 800385 **Sample:** 559427-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 15:34

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.7	110	70-135	
o-Terphenyl	50.8	49.9	102	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800385 **Sample:** 559427-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 16:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.9	108	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 800385 **Sample:** 559427-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/30/10 16:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.1	50.1	108	70-135	

Lab Batch #: 800385 **Sample:** 367141-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 00:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	56.4	50.1	113	70-135	

Lab Batch #: 800385 **Sample:** 367141-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 00:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	99.5	96	70-135	
o-Terphenyl	51.0	49.8	102	70-135	

Lab Batch #: 800385 **Sample:** 367141-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 01:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	50.5	50.0	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800385 **Sample:** 367141-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 01:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	99.7	94	70-135	
o-Terphenyl	50.0	49.9	100	70-135	

Lab Batch #: 800385 **Sample:** 367141-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 02:16

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.5	99.7	76	70-135	
o-Terphenyl	39.5	49.9	79	70-135	

Lab Batch #: 800385 **Sample:** 367141-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 02:49

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77 7	99.8	78	70-135	
o-Terphenyl	40.9	49.9	82	70-135	

Lab Batch #: 800385 **Sample:** 367141-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 03:22

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.4	99.6	80	70-135	
o-Terphenyl	41.4	49.8	83	70-135	

Lab Batch #: 800469 **Sample:** 559487-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 05:23

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.5	120	70-135	
o-Terphenyl	57.0	49.8	114	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800469 **Sample:** 559487-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 05:49

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.5	119	70-135	
o-Terphenyl	56.8	49.8	114	70-135	

Lab Batch #: 800469 **Sample:** 559487-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/10 06:16

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.6	119	70-135	
o-Terphenyl	60.0	49.8	120	70-135	

Lab Batch #: 800469 **Sample:** 367141-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 06:43

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.7	116	70-135	
o-Terphenyl	58.2	49.9	117	70-135	

Lab Batch #: 800469 **Sample:** 367141-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 07:10

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	63.0	50.0	126	70-135	

Lab Batch #: 800469 **Sample:** 367141-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 07:37

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	131	100	131	70-135	
o-Terphenyl	65.0	50.1	130	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800469 **Sample:** 367141-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 08:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	58.4	50.1	117	70-135	

Lab Batch #: 800469 **Sample:** 367141-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 08:31

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.8	117	70-135	
o-Terphenyl	58.5	49.9	117	70-135	

Lab Batch #: 800469 **Sample:** 367141-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 08:58

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	99.8	115	70-135	
o-Terphenyl	57.6	49.9	115	70-135	

Lab Batch #: 800469 **Sample:** 367141-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 09:25

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.8	118	70-135	
o-Terphenyl	59.5	49.9	119	70-135	

Lab Batch #: 800469 **Sample:** 367141-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 09:52

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 367141,

Project ID: GP II Energy

Lab Batch #: 800469 **Sample:** 367141-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 10:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.6	119	70-135	
o-Terphenyl	60.1	49.8	121	70-135	

Lab Batch #: 800469 **Sample:** 367141-017 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 12:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	55.3	50.0	111	70-135	

Lab Batch #: 800469 **Sample:** 367141-017 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/10 12:35

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	56.7	50.1	113	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Littlefield BO Fed #2

Work Order #: 367141 **Project ID:** GP II Energy

Lab Batch #: 800464 **Sample:** 800464-1-BKS **Matrix:** Solid
Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	9.54	95	75-125	

Lab Batch #: 800467 **Sample:** 800467-1-BKS **Matrix:** Solid
Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10 0	10.7	107	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 367141 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 03/30/2010 **Date Analyzed:** 03/31/2010

Lab Batch ID: 800506 **Sample:** 559503-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1000	0.0989	99	0.1	0.1006	101	2	70-130	35	
Toluene	ND	0.1000	0.0976	98	0.1	0.0998	100	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1010	101	0.1	0.1029	103	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1999	100	0.2	0.2037	102	2	70-135	35	
o-Xylene	ND	0.1000	0 1002	100	0.1	0.1028	103	3	71-133	35	

Analyst: BEV **Date Prepared:** 03/30/2010 **Date Analyzed:** 03/30/2010

Lab Batch ID: 800382 **Sample:** 559420-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	997	1140	114	999	1160	116	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	997	955	96	999	981	98	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 367141 **Project ID:** GP II Energy

Analyst: BEV **Date Prepared:** 03/30/2010 **Date Analyzed:** 03/30/2010

Lab Batch ID: 800385 **Sample:** 559427-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	997	1010	101	999	979	98	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	997	698	70	999	826	83	17	70-135	35	

Analyst: BEV **Date Prepared:** 03/30/2010 **Date Analyzed:** 03/31/2010

Lab Batch ID: 800469 **Sample:** 559487-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	995	1170	118	995	1170	118	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	1090	110	995	992	100	9	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 367141

Lab Batch #: 800464 **Project ID:** GP II Energy

Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR

QC- Sample ID: 367224-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	4440	1190	5440	84	75-125	

Lab Batch #: 800467

Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR

QC- Sample ID: 367141-019 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	348	432	836	113	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order # : 367141 **Project ID:** GP II Energy

Lab Batch ID: 800506 **QC- Sample ID:** 367141-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2010 **Date Prepared:** 03/30/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1097	0.0672	61	0.1097	0.0659	60	2	70-130	35	X
Toluene	ND	0.1097	0.0700	64	0.1097	0.0680	62	3	70-130	35	X
Ethylbenzene	ND	0.1097	0.0736	67	0.1097	0.0722	66	2	71-129	35	X
m,p-Xylenes	ND	0.2194	0.1465	67	0.2194	0.1433	65	2	70-135	35	X
o-Xylene	ND	0.1097	0.0737	67	0.1097	0.0723	66	2	71-133	35	X

Lab Batch ID: 800382 **QC- Sample ID:** 367068-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2010 **Date Prepared:** 03/30/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1150	1380	120	1150	1390	121	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1150	1270	110	1150	976	85	26	70-135	35	

Lab Batch ID: 800469 **QC- Sample ID:** 367141-017 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2010 **Date Prepared:** 03/30/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	17.7	1130	1320	115	1130	1350	118	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1130	1070	95	1130	1220	108	13	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed #2

Work Order #: 367141

Lab Batch #: 800464 **Project ID:** GP II Energy
Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR
QC- Sample ID: 367224-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4440	4240	5	20	

Lab Batch #: 800467
Date Analyzed: 03/31/2010 **Date Prepared:** 03/31/2010 **Analyst:** LATCOR
QC- Sample ID: 367141-019 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	348	549	45	20	F

Lab Batch #: 800406
Date Analyzed: 03/30/2010 **Date Prepared:** 03/30/2010 **Analyst:** WRU
QC- Sample ID: 367141-021 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	10.9	11.5	5	20	

Lab Batch #: 800411
Date Analyzed: 03/30/2010 **Date Prepared:** 03/30/2010 **Analyst:** WRU
QC- Sample ID: 367141-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	12.6	13.3	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1/3

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 1 of 3

Project Name: Littlefield BO Fed #2

Company Name: GPII Energy (Attention Joe Compton)

Project #: GP II Energy

Company Address: PO Box 50682

Project Loc: Eddy County, New Mexico

City/State/Zip: Midland, TX 79701

PO #:

Telephone No: 575-441-2244 Fax No: 575-396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C. D. Stanley e-mail: cstanley@basinenv.com

(lab use only)

ORDER #: 367141

Page 26 of 29

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable SW=Surface Water O=Other	Analyze For: TCLP: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX (8021B/5030) or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	Pit F-1	10'		3/25/2010	0830		1	X								Soil	X										X			X			X
-002	Pit SSW	5.5'		3/25/2010	0840		1	X								Soil	X										X			X			X
-003	Pit WSW	5.5'		3/25/2010	0850		1	X								Soil	X										X			X			X
-004	Pit NSW	5.5'		3/25/2010	0900		1	X								Soil	X										X			X			X
-005	Pit ESW	5.5'		3/25/2010	0910		1	X								Soil	X										X			X			X
-006	ROW WSW-1A	3'		3/25/2010	1100		1	X								Soil														X			X
-007	ROW F-2A	11'		3/25/2010	1110		1	X								Soil														X			X
-008	ROW F-3A	9'		3/25/2010	1115		1	X								Soil														X			X
-009	ROW F-6A	6'		3/25/2010	1120		1	X								Soil	X																X
-010	ROW SSW-6A	5.5'		3/25/2010	1130		1	X								Soil	X																X

Special Instructions:

BILL TO GP II Energy

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Sample Hand Delivered by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.6 °C

Relinquished by:	Date	Time	Received by:	Date	Time
C. D. Stanley	3/29/10	0830			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	03-29-10	0850

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

2/3

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley Page 2 of 3

Company Name: GPII Energy (Attention Joe Compton)

Company Address: PO Box 50682

City/State/Zip: Midland, TX 79701

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se (TCLP:)	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-011	ROW F-12A	4'		3/25/2010	1140		1	X								Soil	X																X
-012	ROAD F-2A	6'		3/25/2010	1146		1	X								Soil	X																X
-013	ROAD NSW-2A	5.5'		3/25/2010	1150		1	X								Soil														X			X
-014	ROAD NSW-10.5	7'		3/25/2010	1200		1	X								Soil														X			X
-015	ROAD F-11	7'		3/25/2010	1205		1	X								Soil	X													X			X
-016	ROAD SSW-11	6.5'		3/25/2010	1215		1	X								Soil	X													X			X
-017	ROAD F-12	6'		3/25/2010	1230		1	X								Soil	X													X			X
-018	ROAD NSW-12	5.5'		3/25/2010	1235		1	X								Soil	X													X			X
-019	ROAD F-15	6'		3/26/2010	1000		1	X								Soil	X													X			X
-020	ROAD NSW-15	5.5'		3/26/2010	1005		1	X								Soil	X													X			X

Special Instructions:

BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/29/10	0830			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jeanne Fitch	Date 03-29-10	Time 0850

Laboratory Comments:

Correct Containers Used? Y N

VOCs Free of Headspace? Y N

Custody seals on container(s) label Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered Y N

by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

3/3

Project Manager: Curt Stanley (Page 3 of 3)
Company Name: GPII Energy (Attention Joe Compton)
Company Address: PO Box 50682
City/State/Zip: Midland, TX 79701
Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature:
e-mail: cstanley@basinenv.com

Project Name: Littlefield BO Fed #2
Project #: GP II Energy
Project Loc: Eddy County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For. TCLP: TPH: 418.1 / 8015M	TOTAL: TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-021	ROAD WSW-15	6.5'		3/26/2010	1010		1	X								Soil	X									X						X
-022	ROAD F-16	3.5'		3/26/2010	1105		1	X								Soil	X									X						X
-023	ROAD SSW-16	3'		3/26/2010	1110		1	X								Soil	X									X						X
-024	ROAD F-17	4'		3/26/2010	1205		1	X								Soil	X									X						X
-025	ROAD NSW-17	3.5'		3/26/2010	1210		1	X								Soil	X									X						X
							1	X								Soil																X
							1	X								Soil																X
							1	X								Soil																X
							1	X								Soil																X
							1	X								Soil																X

Special Instructions:
BILL TO GP II Energy

Relinquished by:	Date	Time	Received by:	Date	Time
	3/29/10	0850			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jessica Fitch	03-29-10	0850

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 1.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 03-29-10 @ 0850

Lab ID #: 367141

Initials: JMF

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler? (label)	(Yes)	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	(No)	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 368398

for

GP II Energy

Project Manager: Curt Stanley

Littlefield BO Fed #2

GP II Energy

08-APR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

08-APR-10

Project Manager: **Curt Stanley**
GP II Energy
P.O. Box 50682(GP II Energy's Clients Address)
Midland, TX 79710

Reference: XENCO Report No: **368398**
Littlefield BO Fed #2
Project Address: Eddy Co. NM

Curt Stanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 368398. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 368398 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 368398

GP II Energy, Midland, TX

Littlefield BO Fed #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile #2	S	Apr-07-10 12:05		368398-001

* TRRP Tier I Comm/Indus Soils PCL's

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield BO Fed #2

Project ID:	*GP II Energy*	*Report Date:*	*08-APR-10*
Work Order Number:	*368398*	*Date Received:*	*04/07/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-801607 Percent Moisture
None

Batch: LBA-801626 TPH By SW8015 Mod
None

Certificate of Analysis Summary 368398

GP II Energy, Midland, TX

Project Name: Littlefield BO Fed #2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy Co. NM

Date Received in Lab: Wed Apr-07-10 05:37 pm
Report Date: 08-APR-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	368398-001					
	Field Id:	Stockpile #2					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Apr-07-10 12.05					
Percent Moisture	***Extracted:***						
	Analyzed:	Apr-08-10 08:55					
	Units/RL:	%	RL				
Percent Moisture		2.69	1.00				
TPH By SW8015 Mod	***Extracted:***	Apr-08-10 08:35					
	Analyzed:	Apr-08-10 11:54					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		20.5	15.5				
C12-C28 Diesel Range Hydrocarbons		148	15.5				
C28-C35 Oil Range Hydrocarbons		ND	15.5				
Total TPH		169	15.5				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 368398,

Project ID: GP II Energy

Lab Batch #: 801626 **Sample:** 560195-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/08/10 10:34

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	41.1	50.1	82	70-135	

Lab Batch #: 801626 **Sample:** 560195-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/08/10 11:01

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	41.4	50.2	82	70-135	

Lab Batch #: 801626 **Sample:** 560195-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04/08/10 11:28

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	45.2	50.0	90	70-135	

Lab Batch #: 801626 **Sample:** 368398-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/08/10 11:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.8	100	99	70-135	
o-Terphenyl	45.6	50.2	91	70-135	

Lab Batch #: 801626 **Sample:** 368400-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/08/10 15:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	42.7	50.2	85	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Littlefield BO Fed #2

Work Orders : 368398,

Project ID: GP II Energy

Lab Batch #: 801626 **Sample:** 368400-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04/08/10 15:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	101	107	70-135	
o-Terphenyl	40.5	50.3	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order #: 368398
Analyst: BEV
Lab Batch ID: 801626
Sample: 560195-1-BKS
Units: mg/kg

Date Prepared: 04/08/2010
Batch #: 1

Project ID: GP II Energy
Date Analyzed: 04/08/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1130	113	1000	1150	115	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	731	73	1000	802	80	9	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Littlefield BO Fed #2

Work Order # : 368398 **Project ID:** GP II Energy

Lab Batch ID: 801626 **QC- Sample ID:** 368400-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/08/2010 **Date Prepared:** 04/08/2010 **Analyst:** BEV

Reporting Units: mg/kg

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod **Analytes**	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1100	1200	109	1100	1170	106	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1100	909	83	1100	879	80	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Littlefield BO Fed #2

Work Order #: 368398

Lab Batch #: 801607 **Project ID:** GP II Energy

Date Analyzed: 04/08/2010 **Date Prepared:** 04/08/2010 **Analyst:** ASA

QC- Sample ID: 368398-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.69	2.55	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: CURT STANLEY

Company Name: GP II ENERGY

Company Address: P.O. Box 50682

City/State/Zip: MIDLAND TX 79701

Telephone No: 575-441-2244 Fax No:

Sampler Signature: [signature]

e-mail:

Project Name: LITTLEFIELD BOFED #2

Project #: GP II ENERGY

Project Loc: EDDY Co, NM

PO #:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 368398

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW=Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 72 hrs	Standard TAT
001	STOCKPILE #2			4/7/10	1205		1	X								SOIL	X													X

TCLP:
TOTAL:

Special Instructions:

	Date	Time		Date	Time
Relinquished by: [signature]	4/7/10	1737	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	4/7/10	17:37

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) Y N

Sample Hand Delivered Y N

by Sampler/Client Rep.? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 5.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 4.7.10 17:37

Lab ID # : 368398

Initials: BB / AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	5.1 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 374886

for

Basin Environmental Consulting, LLC

Project Manager: Curt Stanley

BO Littlefield Fed # 2

GP II Energy

02-JUN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

02-JUN-10

Project Manager: **Curt Stanley**
Basin Environmental Consulting, LLC
P.O. Box 381
Lovington, NM 88260

Reference: XENCO Report No: **374886**
BO Littlefield Fed # 2
Project Address: Eddy Co., NM

Curt Stanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 374886. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 374886 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 374886

Basin Environmental Consulting, LLC, Lovington, NM

BO Littlefield Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile # 1 A	S	May-28-10 08:45		374886-001

CASE NARRATIVE

Client Name: Basin Environmental Consulting, LLC
Project Name: BO Littlefield Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*02-JUN-10*
Work Order Number:	*374886*	*Date Received:*	*05/28/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-808866 Percent Moisture
None

Batch: LBA-808976 TPH by SW8015 Mod
None

Certificate of Analysis Summary 374886

Basin Environmental Consulting, LLC, Lovington, NM

Project Name: BO Littlefield Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy Co., NM

Date Received in Lab: Fri May-28-10 03:20 pm
Report Date: 02-JUN-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	374886-001					
	Field Id:	Stockpile # 1 A					
	Depth:						
	Matrix:	SOIL					
	Sampled:	May-28-10 08:45					
Percent Moisture	*Extracted:*						
	Analyzed:	Jun-02-10 08.20					
	Units/RL:	%	RL				
Percent Moisture		6.35	1.00				
TPH by SW8015 Mod	*Extracted:*	Jun-01-10 13:45					
	Analyzed:	Jun-01-10 17.43					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	16.0				
C12-C28 Diesel Range Hydrocarbons		26.7	16.0				
C28-C35 Oil Range Hydrocarbons		ND	16 0				
Total TPH		26.7	16.0				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: BO Littlefield Fed # 2

Work Orders : 374886,

Project ID: GP II Energy

Lab Batch #: 808976 **Sample:** 564699-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/01/10 15:53

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 808976 **Sample:** 564699-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/01/10 16:20

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

Lab Batch #: 808976 **Sample:** 564699-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/01/10 16:48

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 808976 **Sample:** 374886-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/01/10 17:43

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 808976 **Sample:** 374886-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/02/10 11:44

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	51.1	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: BO Littlefield Fed # 2

Work Orders : 374886,

Project ID: GP II Energy

Lab Batch #: 808976 **Sample:** 374886-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/02/10 12:11

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	50.3	50.0	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: BO Littlefield Fed # 2

Work Order #: 374886 **Project ID:** GP II Energy

Analyst: BEV **Date Prepared:** 06/01/2010 **Date Analyzed:** 06/01/2010

Lab Batch ID: 808976 **Sample:** 564699-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod **Analytes**	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1070	107	1000	1130	113	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	863	86	1000	829	83	4	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: BO Littlefield Fed # 2

Work Order # : 374886 **Project ID:** GP II Energy

Lab Batch ID: 808976 **QC- Sample ID:** 374886-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/02/2010 **Date Prepared:** 06/01/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1070	1260	118	1070	1280	120	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	26.7	1070	794	72	1070	797	72	0	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: BO Littlefield Fed # 2

Work Order #: 374886

Lab Batch #: 808866 **Project ID:** GP II Energy

Date Analyzed: 06/02/2010 **Date Prepared:** 06/02/2010 **Analyst:** JLG

QC- Sample ID: 374884-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.75	6.34	6	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley

Company Name: Basin Environmental Consulting

Company Address: P.O.Box 381

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210 Fax No: (505) 396-1429

Sampler Signature: Curt Stanley e-mail: cjbryant@basin-consulting.com

Project Name: BO Littlefield Fed #2

Project #: GP II Energy

Project Loc: Eddy Co, NM

PO #: PAA- J. Henry

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 374886

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge	GW - Groundwater S - Soil/Sol	NP - Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 / 8015B	TOTAL: TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Stockpile #1 A			5/28/2010	845		1	X									S		X									X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Curt Stanley	5/28	1520			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	05-28-10	1520

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) as/labels Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 36 °C

XENCO Laboratories	XENCO Laboratories Atlanta, Corpus Christi, Dallas, Houston, Miami, Midland, Philadelphia, San Antonio, Tampa

Document Title:	Sample Receipt Checklist
Document No.:	SYS - SRC
Revision/Date :	No.00 , 05/18/10
Effective Date:	05/20/10
Page No.:	1 of 1

Prelogin / Nonconformance Report – Sample Log-In

Client: Basin Environmental

Date/Time: 05-28-10 @ 1520

Lab ID #:

Initials: JMF

Sample Receipt Checklist

1. Sample on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and (bottles)?	(Yes)	No	N/A	as labels
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample lable(s)?	(Yes)	No		
9. Container labels legible legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	(No)	N/A	
17. Voc sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	3.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

_____

Corrective ActionTaken:_____

_____

_____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3 1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 379806

for

Basin Environmental Consulting, LLC

Project Manager: Camille Bryant

BO Littlefield Fed # 2

GP II Energy

02-JUL-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

02-JUL-10

Project Manager: **Camille Bryant**
Basin Environmental Consulting, LLC
P.O. Box 381
Lovington, NM 88260

Reference: XENCO Report No: **379806**
BO Littlefield Fed # 2
Project Address: Eddy County, New Mexico

Camille Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 379806. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 379806 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 379806

Basin Environmental Consulting, LLC, Lovington, NM

BO Littlefield Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile # 3	S	Jun-30-10 14:30		379806-001

CASE NARRATIVE

Client Name: Basin Environmental Consulting, LLC
Project Name: BO Littlefield Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*02-JUL-10*
Work Order Number:	*379806*	*Date Received:*	*07/01/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-813111 Percent Moisture
None

Batch: LBA-813114 Inorganic Anions by EPA 300
None

Batch: LBA-813120 TPH By SW8015 Mod
SW8015MOD_NM

Batch 813120, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 379806-001 S.

Batch: LBA-813124 BTEX by EPA 8021B
SW8021BM

Batch 813124, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 379806-001.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 379806

Basin Environmental Consulting, LLC, Lovington, NM

Project Name: BO Littlefield Fed # 2

Project Id: GP II Energy
Contact: Camille Bryant
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu Jul-01-10 02:45 pm
Report Date: 02-JUL-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	379806-001					
	Field Id:	Stockpile # 3					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Jun-30-10 14:30					
Anions by E300	*Extracted:*						
	Analyzed:	Jul-01-10 16.07					
	Units/RL:	mg/kg	RL				
Chloride		218	8.63				
BTEX by EPA 8021B	*Extracted:*	Jul-01-10 15:45					
	Analyzed:	Jul-02-10 02.35					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.0010				
Toluene		ND	0.0020				
Ethylbenzene		0.0010	0.0010				
m,p-Xylenes		0.0028	0.0020				
o-Xylene		0.0013	0.0010				
Total Xylenes		0.0041	0.0010				
Total BTEX		0.0051	0.0010				
Percent Moisture	*Extracted:*						
	Analyzed:	Jul-02-10 08:15					
	Units/RL:	%	RL				
Percent Moisture		2.67	1.00				
TPH By SW8015 Mod	*Extracted:*	Jul-01-10 15:10					
	Analyzed:	Jul-01-10 18:54					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.0				
C12-C28 Diesel Range Hydrocarbons		61.0	15.0				
C28-C35 Oil Range Hydrocarbons		ND	15 0				
Total TPH		61.0	15.0				

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: BO Littlefield Fed # 2

Work Orders : 379806,

Project ID: GP II Energy

Lab Batch #: 813124 **Sample:** 567201-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/02/10 00:43

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 813124 **Sample:** 567201-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/02/10 01:05

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 813124 **Sample:** 567201-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/02/10 02:13

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 813124 **Sample:** 379806-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/02/10 02:35

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 813124 **Sample:** 379806-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/02/10 02:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0 0300	98	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: BO Littlefield Fed # 2

Work Orders : 379806,

Project ID: GP II Energy

Lab Batch #: 813124 **Sample:** 379806-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/02/10 03:20

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 813120 **Sample:** 567195-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/01/10 17:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	55.8	50.1	111	70-135	

Lab Batch #: 813120 **Sample:** 567195-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/01/10 17:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	56.7	50.1	113	70-135	

Lab Batch #: 813120 **Sample:** 567195-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/01/10 18:25

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.9	104	70-135	
o-Terphenyl	59.4	50.0	119	70-135	

Lab Batch #: 813120 **Sample:** 379806-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/01/10 18:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	60.4	50.0	121	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: BO Littlefield Fed # 2

Work Orders : 379806,

Project ID: GP II Energy

Lab Batch #: 813120 **Sample:** 379806-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/01/10 19:51

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	99.5	131	70-135	
o-Terphenyl	68.3	49.8	137	70-135	*

Lab Batch #: 813120 **Sample:** 379806-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/01/10 20:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	55.8	50.0	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: BO Littlefield Fed # 2

Work Order #: 379806 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 07/01/2010 **Date Analyzed:** 07/02/2010

Lab Batch ID: 813124 **Sample:** 567201-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1000	0.1089	109	0.1	0.1103	110	1	70-130	35	
Toluene	ND	0.1000	0.0997	100	0.1	0.1014	101	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1046	105	0.1	0.1077	108	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.2102	105	0.2	0.2173	109	3	70-135	35	
o-Xylene	ND	0.1000	0.1047	105	0.1	0.1075	108	3	71-133	35	

Analyst: LATCOR **Date Prepared:** 07/01/2010 **Date Analyzed:** 07/01/2010

Lab Batch ID: 813114 **Sample:** 813114-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

Anions by E300	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Chloride	ND	11.0	11.4	104	11	11.5	105	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: BO Littlefield Fed # 2

Work Order #: 379806 **Project ID:** GP II Energy

Analyst: BEV **Date Prepared:** 07/01/2010 **Date Analyzed:** 07/01/2010

Lab Batch ID: 813120 **Sample:** 567195-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW8015 Mod **Analytes**	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1050	105	1000	1050	105	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	807	81	1000	827	83	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: BO Littlefield Fed # 2

Work Order #: 379806

Lab Batch #: 813114

Project ID: GP II Energy

Date Analyzed: 07/01/2010

Date Prepared: 07/01/2010

Analyst: LATCOR

QC- Sample ID: 379806-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	218	200	380	81	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: BO Littlefield Fed # 2

Work Order # : 379806 **Project ID:** GP II Energy

Lab Batch ID: 813124 **QC- Sample ID:** 379806-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/02/2010 **Date Prepared:** 07/01/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.0990	0.0683	69	0.0990	0.0631	64	8	70-130	35	X
Toluene	ND	0.0990	0.0603	61	0.0990	0.0572	58	5	70-130	35	X
Ethylbenzene	0.0010	0.0990	0.0524	52	0.0990	0.0554	55	6	71-129	35	X
m,p-Xylenes	0.0028	0.1980	0.0894	44	0.1980	0.1039	51	15	70-135	35	X
o-Xylene	0.0013	0.0990	0.0527	52	0.0990	0.0542	53	3	71-133	35	X

Lab Batch ID: 813120 **QC- Sample ID:** 379806-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/01/2010 **Date Prepared:** 07/01/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	995	1280	129	1000	1030	103	22	70-135	35	
C12-C28 Diesel Range Hydrocarbons	61.0	995	971	91	1000	836	78	15	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Final 1 000

Sample Duplicate Recovery

Project Name: BO Littlefield Fed # 2

Work Order #: 379806

Lab Batch #: 813114 **Project ID:** GP II Energy

Date Analyzed: 07/01/2010 **Date Prepared:** 07/01/2010 **Analyst:** LATCOR

QC- Sample ID: 379806-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	218	220	1	20	

Lab Batch #: 813111

Date Analyzed: 07/02/2010 **Date Prepared:** 07/02/2010 **Analyst:** JLG

QC- Sample ID: 379806-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.67	2.48	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Bryant

Company Name: Basin Environmental Consulting, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210

Sampler Signature: Camille Bryant

Project Name: BO Littlefield Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

Fax No: (505) 396-1429

e-mail: cjbryant@basin-consulting.com

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 379806

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 (TCLP: / TOTAL: X)	RCI	N.O.R.M	Chlorides 8300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Stockpile #3			30-Jun-10	1430		1	X								Soil	X								X			X			X	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	7/1/10	1001		7-1-10	10:01
Relinquished by:	Date	Time	Received by:	Date	Time
	7-1-10	14:49			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Lam	7.1.10	14:45

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered Y N

by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

4 ozglass

Temperature Upon Receipt: 4.6 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env.

Date/Time: 7.1.10 14:45

Lab ID #: 379806

Initials: AL

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	4.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact: _____ **Contacted by:** _____ **Date/Time:** _____

Regarding: _____

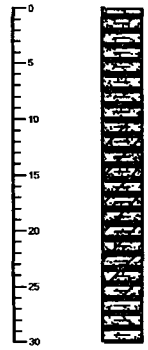
Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Appendix D
Soil Boring Logs

Soil Boring SB-1

Depth below ground surface	Soil Columns	Chloride Field Test	Petroleum Odor	Petroleum Stain	Soil Description
			None	None	
			None	None	0 - 10' - Clay, brown, sandy, moist, more clay with depth
			None	None	
			None	None	
			None	None	10 - 26' - Clay, brown, sandy with gypsum stringers
			None	None	
		180			
			None	None	26 - 30' - Clay, red, sandy, moist
		128			



Boring SB-1

Date Drilled: April 11, 2010
Thickness of Bentonite Seal: 30 Ft
Depth of Exploratory Boring: 30 Ft bgs
Depth to Groundwater:
Ground Water Elevation:

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The monitor well was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-1

GP II Energy
Littlefield "BO" Federal #2
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CJB
May 26, 2010	

Soil Boring SB-2

Depth below ground surface	Soil Columns	Chloride Field Test	Petroleum Odor	Petroleum Stain	Soil Description
			None	None	
			None	None	
5					0 - 12' - Clay, brown to red to light red, sandy with some caliche fragments
			None	None	
10		776			
			None	None	
15		>2,500			12 - 20' - Clay, dark red
			None	None	
20		1,000			
			None	None	20 - 26' - Clay, sandy, silty with some gypsum stringers
25		708			
			None	None	26 - 30' - Clay and sandstone, tite, hard
30		368			
			None	None	
35		368			
			None	None	
40		1,352			
			None	None	30 - 55' - Clay, red, silty with some selenite and gypsum stringers
45		1,045			
			None	None	
50		206			
			None	None	
55	TD	180			

Boring SB-2

Date Drilled: April 11, 2010
Thickness of Bentonite Seal: 55 Ft
Depth of Exploratory Boring: 55 Ft bgs
Depth to Groundwater:
Ground Water Elevation:

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The monitor well was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

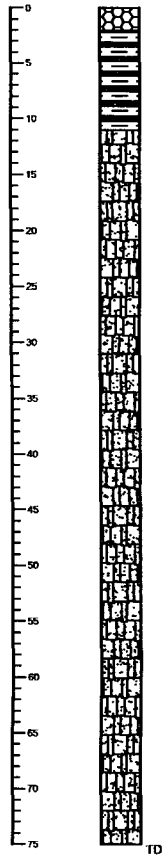
Soil Boring SB-2

GP II Energy
Littlefield "BO" Federal #2
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CJB
May 26, 2010	

Soil Boring SB-3



Depth below ground surface	Chloride Field Test	Petroleum Odor	Petroleum Stain	Soil Description
0	>2,424	Moderate	Slight	0 - 2' - Caliche, white and sand, light brown (Road Base)
5		Moderate	Slight	
10		None	None	2 - 11' - Clay, red
15	1,048	None	None	
20	1168	None	None	
25		None	None	
30		None	None	
35	708	None	None	
40	848	None	None	
45	840	None	None	11 - 75' - Sand and sandstone, light brown
50	840	None	None	
55	580	None	None	
60	412	None	None	
65	368	None	None	
70	368	None	None	
75	368	None	None	

Boring SB-3

Date Drilled: April 11, 2010
Thickness of Bentonite Seal: 75 Ft
Depth of Exploratory Boring: 75 Ft bgs
Depth to Groundwater: _____
Ground Water Elevation: _____

▼ Indicates the PSH level measured on _____
▼ Indicates the groundwater level measured on _____
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The monitor well was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-3

GP II Energy
Littlefield "BO" Federal #2
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CJB
May 26, 2010	

Appendix E
Release Notification and Corrective Action
(Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	GP II Energy, Inc. 8359	Contact	Joe Compton
Address	PO Box 50682	Telephone No.	432-684-4748
Facility Name	Federal Littlefield "BO" Tank Battery	Facility Type	Tank Battery - Oil and Produced Water Storage

Surface Owner	Federal	Mineral Owner	Federal	Lease No.	LC-065928A

LITTLEFIELD BO FEDERAL 002
30-015-24529

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	26S	29E	~710 724	N	~750 660	E	Eddy

Latitude N 32 0' 12.10" **Longitude** W -103 57' 59.06"

NATURE OF RELEASE night of Dec. 7. 2009 ~11:00am Dec.8. 2009

Type of Release	Produced Oil	Volume of Release ~92.5 Bbls.	Volume Recovered 20 Bbls.
Source of Release	Oil Storage Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	☐ Yes ☒ No ☐ Not Required	If YES, To Whom? **Bureau of Land Management notified GP II Energy** that a spill had been reported by New Mexico OCD field inspector at the Federal Littlefield "BO" tank battery	
By Whom?		Date and Hour Check with BLM	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Worked over Federal "BO" #6. Well flowed during night and pushed water from the gun barrel into oil storage tank. Equalizer was unable to accommodate flow and oil ran over the storage tank. We are going to install a larger gun barrel capable of handling production surges of this volume.

Describe Area Affected and Cleanup Action Taken.* Please refer to attached google earth map. The green line marks the length and path of the spill. We are currently removing contaminated soil and cleaning up the road under the direct supervision of a BLM field agent. We will have the cut areas sampled and analyzed for contamination prior to backfilling with approved soil or road material.

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

Signature: Joe L Compton

Printed Name: Joe L Compton

Title: Agent

E-mail Address: compton@gp2energy.com

Date: 12-11-2009 Phone: 432-684-4748

* Attach Additional Sheets If Necessary

SEB0934847776
nSEB0934847392
iSEB0934847740

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: 12-16-09 Expiration Date: 02-16-2010

Conditions of Approval: Within 30 days, on or before 01-21-2010 completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage.

The plan must include general site characteristics, site ranking score, soil remediation action levels, soil remediation methods, and planned analytical testing for TPH, B-TEX, Chlorides or any other COC's as applicable. Please use the "Guidelines for Remediation of Leaks Spills & Releases" as your guide. This document may be found at the following link:

Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.

NMOCD approval shall be obtained prior to any backfilling activities.

Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD