## Basin Environmental Service Technologies, LLC

P. O. Box 301 Lovington, New Mexico 88260 rjohnson@basinenv.com Office: (505) 396-2378 Fax: (505) 396-1429



## SOIL REMEDIATION and CLOSURE REQUEST

## PLAINS MARKETING, L. P. Lea to Dublin 8" Line Lea County, New Mexico Plains EMS #2004-00223 Unit G (SW ¼, NE ¼), Section 28, Township 20 South, Range 37 East Latitude 32°, 32<sup>°</sup>, 46.8<sup>°</sup> North, Longitude 103°, 15<sup>°</sup>, 19.5<sup>°</sup> West

Prepared For:

Plains Marketing, L.P. 333 Clay Street Suite 1600 Houston, Texas 77002



Prepared By: Basin Environmental Service Technologies, LLC

August 15, 2005

Basin Environmental Service Technologies, LLC

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## INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the Lea to Dublin 8" Pipeline on December 4, 2004. A 2-inch scraper valve at this pig trap location ruptured causing the release. The impacted soils were excavated and temporarily stockpiled on a poly liner.

This site is located in Unit G (SW ¼, NE ¼), Section 28, Township 20 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site is located at latitude 32°, 32, 46.8 North and longitude 103°, 15, 19.5 West. The site is characterized by a right-of-way for the pipeline in an undulating sand dune pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 125 feet long by 130 feet wide. Approximately 910 barrels of crude oil were released from the Plains Pipeline and 860 barrels were recovered.

An Emergency One-Call was initiated December 4, 2004 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

The Millard Deck Estate owns the affected land. Mr. Tim Walters, Executor, Bank of America in Midland, Texas was notified of the release and subsequent remedial actions. The ranch foreman, Mr. Larry Strain, was notified and has made numerous visits to the release site. Mr. Strain was briefed on the continuing actions and is satisfied with the information he has been provided. Mr. Leo "Flap" Sims, Environmental Coordinator for the Millard Deck Estate, was also notified on the release and concurred with the remedial actions that have been proposed and completed.

Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on December 4, 2004. A C-141 form, dated December 7, 2004 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix D, NMOCD C-141).

## SUMMARY OF FIELD ACTIVITIES

On December 4, 2004, Basin responded to a pipeline release located on the Lea to Dublin 8" Pipeline to help contain the crude oil pipeline release under the direction of Plains operations personnel.

The release point and flow path were excavated removing impacted soils to dimensions approximately 125 feet long by 130 feet wide and 4 to 14 feet below ground surface (bgs) (see Figure 2, Site Map). All excavated soils were placed

on a poly liner for future remedial action. The visually stained flow path was excavated and confirmation samples were collected and delivered to the laboratory for analysis on January 3, 2005 and January 14, 2005. The confirmation soil samples collected were screened in the field with a Photoionization Detector (PID), (see Figure 2, Site Map) and soil screening results indicated no detectable Volatile Organic Compounds (VOC) present. All selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the confirmation soil samples indicate that the walls and floor of the excavated area are below NMOCD regulatory standards (see Table 1, Soil Chemistry Table).

A request for backfilling the excavation was proposed to Mr. Larry Johnson, NMOCD Hobbs Office on May 16, 2005 and verbally approved (Appendix C Request Approval for Backfill of Excavation). Mr. Leo "Flap" Sims, Environmental Coordinator for the Millard Deck Estate concurred with the request for backfilling the excavation. Backfill material was obtained from the Millard Deck Estate.

# NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed the average depth to groundwater is 40 feet bgs. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of >20, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 100 ppm

## DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The release point and flow path areas were excavated to depths of approximately 4 feet bgs to 14 feet bgs (see figure 2 site map) and no visual evidence of crude oil impact was evident on the floor or sidewalls following the completion of the excavation. PID readings indicated no detectable concentrations of Volatile Organic Compounds (VOC) remained on the floor or sidewalls of the excavation. Confirmation soil samples were collected from the excavation on January 3, 2005 and January 14, 2005; and were analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Analytical results indicated detectable BTEX concentrations were below NMOCD regulatory standards for the South Excavation Floor, Middle Floor East, North Pipeline Floor, and North Floor soil samples at a depth of 6, 4, 8, and 4 feet bgs, respectively. Analytical results indicated BTEX concentrations were not detected above the laboratory detection limits for the remaining confirmation soil samples. Analytical results indicated detectable TPH concentrations were below NMOCD regulatory standards for South Excavation Side Wall, South Excavation Floor, Middle Floor East, and Middle Floor South soil samples at a depth of 3, 6, 4, and 4 feet bgs, respectively. Analytical results from the North Pipeline Floor reported a TPH concentration of 112 mg/kg, which is slightly above the NMOCD criteria of 100 mg/kg for TPH, but is within the margin for error of the laboratory equipment and was considered acceptable by the NMOCD. The remaining analytical results indicated TPH concentrations were not detected above the laboratory detection limits on the remaining confirmation soil samples.

### **RECOMMENDATIONS FOR REMEDIATION/CLOSURE**

Approximately 3492 cubic yards of impacted soil was excavated and stockpiled on-site resulting from the emergency response and subsequent remedial activities. The impacted soil was transported to the Plains Lea Station Landfarm (LSLF). A permit (NMOCD Form C-138) was obtained from the NMOCD for the trucking of the contaminated soils to LSLF. A request for backfilling the exaction was proposed to Mr. Larry Johnson, NMOCD Hobbs Office on May 16, 2005, and verbally approved by Mr. Johnson (Appendix C Request Approval for Backfill of Excavation). The backfill material was obtained from the landowner (Millard Deck Estate). The excavation was backfilled and contoured to match the original rangeland grade surrounding the site and will be reseeded this fall with the landowners approved grass seed.

Based on the results of the remediation activities conducted, Basin, on behalf of Plains, requests that the NMOCD consider this site as eligible for closure under the New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases (1993). If the NMOCD concurs with this recommendation, please provide Plains with a letter stating no further action is required.

## QA/QC PROCEDURES

## Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil

samples were analyzed for BTEX, TPH-GRO/DRO within fourteen 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

## **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<sup>®</sup> detergent and rinsed with distilled water.

## Laboratory Protocol

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

## LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Soil Remediation and Closure Request Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, 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 Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised bv similar environmental consultants. Basin Environmental Service Technologies, 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 Plains Marketing, L.P. 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 Service Technologies, LLC, and Plains Marketing, L.P.

## DISTRIBUTION

- Copy 1: Jeff Dann Plains All American 333 Clay Street Suite 1600 Houston, Texas 77002 jpdann@paalp.com
- Copy 2: Camille Reynolds Plains All American 3112 West US 82 Lovington, New Mexico 88260 cjreynolds@paalp.com
- Copy 3: Larry Johnson New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240 Larry.Johnson@state.nm.us
- Copy 4: Basin Environmental Service Technologies LLC P. O. Box 301 Lovington, New Mexico 88260 rjohnson@basinenv.com
- Copy 5 and 6: Millard Deck Estate Delivered to: Leo "Flap" Sims, Environmental Coordinator

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Tables





## Table 1

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Soil Chemistry

|                     |        | <u> </u> |         | TAE       | BLE 1      |             |                 | <u></u> | ······································ | · · · · · · · · · · · · · · · · · · · |
|---------------------|--------|----------|---------|-----------|------------|-------------|-----------------|---------|--|---------------------------------------|
|                     |        |          |         | SOIL CH   | EMISTRY    |             |                 |         |  |                                       |
|                     |        |          | P       | LAINS MAF | RKETING. L | .P.         |                 |         |  |                                       |
|                     |        |          |         | LEA TO DU | •          |             |                 |         |  |                                       |
|                     |        |          |         | A COUNTY  |            |             |                 |         |  |                                       |
|                     |        |          |         |           | 04-00223   |             |                 |         |  |                                       |
|                     |        |          |         |           |            |             |                 |         |  |                                       |
| SAMPLE              | SAMPLE | SAMPLE   |         |           | PA SW 846- | 8021B, 5030 |                 | METHO   | D: 8015M                               | TOTAL                                 |
| LOCATION            | DEPTH  | DATE     | BENZENE | TOLUENE   |            | M,P-        | <b>O-XYLENE</b> | GRO     | DRO                                    | TPH                                   |
|                     |        |          |         |           | BENZENE    | XYLENES     |                 |         |  |                                       |
|                     |        |          | (mg/kg) | (mg/kg)   | (mg/kg)    | (mg/kg)     | (mg/kg)         | (mg/kg) | (mg/kg)                                | (mg/kg)                               |
| South Exc SW        | 3'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | 30.8                                   | 30.8                                  |
| South Exc Floor     | 6'     | 01/03/05 | <0.025  | <0.025    | <0.025     | 0.101       | 0.061           | <10.0   | 14.5                                   | 14.5                                  |
| Viddle Floor East   | 4'     | 01/03/05 | 0.109   | 1.49      | 2.66       | 3.76        | 1.68            | 37.2    | 34.6                                   | 71.8                                  |
| Viddle Floor South  | 4'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | 29.6                                   | 29.6                                  |
| Viddle Floor North  | 4'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North Exc Floor     | 14'    | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North Exc S/SW      | 6'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North Exc N/SW      | 6'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North P/L Floor     | 8'     | 01/03/05 | <0.025  | 0.37      | 0.552      | 1.09        | 0.618           | 44.9    | 131                                    | 176                                   |
| North P/L N/SW      | 4'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North P/L S/SW      | 4'     | 01/03/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | <10.0                                  | <10.0                                 |
| North Floor         | 3'     | 01/03/05 | <0.025  | 0.315     | 0.169      | 0.096       | 0.06            | <10.0   | <10.0                                  | <10.0                                 |
| Stockpile North     | 6'     | 01/03/05 | 0.160   | 7.24      | 7.71       | 11.7        | 4.51            | 188     | 184                                    | 372                                   |
| Stockpile South     | 6'     | 01/03/05 | 0.041   | 1.3       | 2.1        | 2.89        | 1.21            | 81.2    | 98.5                                   | 180                                   |
| Stockpile East      | 6'     | 01/03/05 | 21.3    | 340       | 257        | 230         | 92.9            | 10400   | 9420                                   | 19800                                 |
| Stockpile West      | 6'     | 01/03/05 | <0.025  | 0.133     | 0.132      | 0.711       | 0.426           | 110     | 232                                    | 342                                   |
| North P/L Floor 15' | 15'    | 01/14/05 | <0.025  | <0.025    | <0.025     | <0.025      | <0.025          | <10.0   | 112                                    | 112                                   |
| NMOCD Criteria      |        |          | 10      |           | TOTAL      | BTEX 50     |                 |         |  | 100                                   |
|                     |        |          |         |           |            |             |                 |         |  |                                       |



# Figure 1

Site Location Map

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Figure 2

Site Map





Figure 3

**Digital Photos** 



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Lea to Dublin 8" Line Release Site Backfilled and Contoured to the Original Grade



## Appendix A

New Mexico Office of the State Engineer Water Well Database Report



|     |     | AVERA | AGE | DEPTH  | OF | WATER | REPORT | ( | 08/29/200 | )5     |          |       |
|-----|-----|-------|-----|--------|----|-------|--------|---|-----------|--------|----------|-------|
|     |     |       |     |        |    |       |        |   |           | (Depth | Water in | Feet) |
| Bsn | Tws | Rng   | Sec | : Zone | ÷  | Х     | 3      | Y | Wells     | Min    | Max      | Avg   |
| L   | 20S | 37E   | 28  |        |    |       |        |   | 2         | 40     | 40       | 40    |

Record Count: 2

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## Appendix B

Environmental Laboratory of Texas Analytical Results

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# Analytical Report

### **Prepared for:**

Ken Dutton Basin Environmental Services P.O. Box 301 Lovington, NM 88260

Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Location: Lea County, NM

Lab Order Number: 5A05014

Report Date: 01/11/05

Basin Environmental ServicesProject:Lea to Dublin 8 inchFax: (505) 396-1429P.O. Box 301Project Number:EMS #2004-00223Reported:Lovington NM, 88260Project Manager:Kcn Dutton01/11/05 10:08

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID          | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|--------------------|---------------|--------|----------------|----------------|
| South Exc SW       | 5A05014-01    | Soil   | 01/03/05 08:15 | 01/05/05 13:25 |
| South Exc Floor    | 5A05014-02    | Soil   | 01/03/05 09:00 | 01/05/05 13:25 |
| Middle Floor East  | 5A05014-03    | Soil   | 01/03/05 09:15 | 01/05/05 13:25 |
| Middle Floor South | 5A05014-04    | Soil   | 01/03/05 09:25 | 01/05/05 13:25 |
| Middle Floor North | 5A05014-05    | Soil   | 01/03/05 09:18 | 01/05/05 13:25 |
| North Exc Floor    | 5A05014-06    | Soil   | 01/03/05 09:10 | 01/05/05 13:25 |
| North Exc S/SW     | 5A05014-07    | Soil   | 01/03/05 09:45 | 01/05/05 13:25 |
| North Exc N/SW     | 5A05014-08    | Soil   | 01/03/05 09:55 | 01/05/05 13:25 |
| North P/L Floor    | 5A05014-09    | Soil   | 01/03/05 10:08 | 01/05/05 13:25 |
| North P/L N/SW     | 5A05014-10    | Soil   | 01/03/05 10:20 | 01/05/05 13:25 |
| North P/L S/SW     | 5A05014-11    | Soil   | 01/03/05 10:35 | 01/05/05 13:25 |
| North Floor        | 5A05014-12    | Soil   | 01/03/05 10:05 | 01/05/05 13:25 |
| Stockpile North    | 5A05014-13    | Soil   | 01/03/05 08:30 | 01/05/05 13:25 |
| Stockpile South    | 5A05014-14    | Soil   | 01/03/05 08:40 | 01/05/05 13:25 |
| Stockpilc East     | 5A05014-15    | Soil   | 01/03/05 08:20 | 01/05/05 13:25 |
| Stockpile West     | 5A05014-16    | Soil   | 01/03/05 08:50 | 01/05/05 13:25 |

| Lovington NM, 88260                 |            | Project M          | anager: Ken | Dutton   |         |          |            | 01/1      | 1/05 10:0 | 8    |
|-------------------------------------|------------|--------------------|-------------|----------|---------|----------|------------|-----------|-----------|------|
|                                     |            | O                  | rganics b   | y GC     |         |          |            |           |           |      |
| ·                                   |            | Environ            | mental L    | ab of Te | exas    |          |            |           |           |      |
| Analyte                             | Result     | Reporting<br>Limit | Units       | Dilution | Batch   | Prepared | Analyzed   | Method    | Analyst   | Note |
| South Exc SW (5A05014-01) Soil      |            |                    |             |          |         |          |            |           |           |      |
| Benzene                             | ND         | 0.0250             | mg/kg dry   | 25       | EA51002 | 01/06/05 | 01/06/05   | EPA 8021B | cdk       |      |
| Toluene                             | ND         | 0.0250             |             | ۳        | "       |          | 11         | *         | cdk       |      |
| Ethylbenzene                        | ND         | 0.0250             |             | "        | "       | "        | "          | 0         | cdk       |      |
| Xylene (p/m)                        | ND         | 0.0250             | "           | "        | "       | 40       | "          | P         | cdk       |      |
| Xylene (o)                          | ND         | 0.0250             | "           | "        |         | 69       | 11         | 6         | cdk       |      |
| Surrogate: a,a,a-Trifluorotoluene   |            | 97.3 %             | 80-1        | 20       | "       | n        | н          | "         |           |      |
| Surrogate: 4-Bromofluorobenzene     |            | 117%               | 80-1        | 20       | "       | n        | "          | "         |           |      |
| Gasoline Range Organics C6-C12      | J [7.83]   | 10.0               | mg/kg dry   | 1        | EA50504 | 01/05/05 | 01/06/05   | EPA 8015M | JLH       |      |
| Diesel Range Organics >C12-C35      | 30.8       | 10.0               |             | *        | "       |          |            | ۳         | ЛН        |      |
| Fotal Hydrocarbon C6-C35            | 30.8       | 10.0               |             | **       |         | ۲        | *          | "         | ЛН        |      |
| Surrogate: 1-Chlorooctane           |            | 99.4 %             | 70-1        | 30       | N       | #        | "          | "         |           |      |
| Surrogate: 1-Chlorooctadecane       |            | 77.0 %             | 70-1        | 30       | "       | n        | "          | "         |           |      |
| South Exc Floor (5A05014-02) Soil   |            |                    |             |          |         | ·        |            |           |           |      |
| Benzene                             | ND         | 0.0250             | mg/kg dry   | 25       | EA51002 | 01/06/05 | 01/10/05   | EPA 8021B | cdk       |      |
| Toluene                             | ND         | 0.0250             | **          | "        | "       | •        |            |           | cdk       |      |
| Ethylbenzene                        | J [0.0124] | 0.0250             | **          |          | "       | "        |            |           | cdk       |      |
| Xylene (p/m)                        | 0.101      | 0.0250             | **          | •        | •       | W        | *          |           | cdk       |      |
| Xylene (0)                          | 0.0610     | 0.0250             | "           | "        | 19      | **       | **         | 59        | cdk       |      |
| Surrogate: a,a,a-Trifluorotoluene   |            | 109 %              | 80-1        | 20       | "       | "        | "          | ĸ         |           |      |
| Surrogate: 4-Bromofluorobenzene     |            | 109 %              | 80-1        | 20       | "       | "        | n          | "         |           |      |
| Gasoline Range Organics C6-C12      | ND         | 10.0               | mg/kg dry   | 1        | EA50504 | 01/05/05 | 01/06/05   | EPA 8015M | ЛН        |      |
| Diesel Range Organics >C12-C35      | 14.5       | 10.0               |             |          | *       | W        |            |           | ЛLН       |      |
| Total Hydrocarbon C6-C35            | 14.5       | 10.0               |             | "        | "       | **       | "          | "         | ЛН        |      |
| Surrogate: 1-Chlorooctane           |            | 94.4 %             | 70-1        | 30       | "       | "        | ` <i>"</i> | "         |           |      |
| Surrogate: 1-Chlorooctadecane       |            | 72.6 %             | 70-1        | 30       | "       | "        | "          | "         |           |      |
| Middle Floor East (5A05014-03) Soil |            |                    | <del></del> |          |         |          |            |           |           |      |
| Benzene                             | 0.109      | 0.0250             | mg/kg dry   | 25       | EA51002 | 01/06/05 | 01/06/05   | EPA 8021B | cdk       |      |
| Foluene                             | 1.49       | 0.0250             | ••          | *        | u.      | "        | "          | "         | cdk       |      |
| Ethylbenzene                        | 2.66       | 0.0250             |             | *        | *       | "        | "          | "         | cdk       |      |
| Kylene (p/m)                        | 3.76       | 0.0250             |             | "        | •       |          | "          | *         | cdk       |      |
| Xylene (o)                          | 1.68       | 0.0250             | "           | *        | 14      | "        | "          | 19        | cdk       |      |
| Surrogate: a,a,a-Trifluorotoluene   |            | 121 %              | 80-1        | 20       | "       | H        | "          | "         |           | S-6  |
| Surrogate: 4-Bromofluorobenzene     |            | 162 %              | 80-1        | 20       | "       | "        | "          | "         |           | S-6  |
| Gasoline Range Organics C6-C12      | 37.2       | 10.0               | mg/kg dry   | 1        | EA50504 | 01/05/05 | 01/06/05   | EPA 8015M | JLH       |      |
| Diesel Range Organics >C12-C35      | 34.6       | 10.0               |             | "        |         |          |            |           | ЛН        |      |

Project: Lea to Dublin 8 inch

Environmental Lab of Texas

Basin Environmental Services

The results in this report apply to the samples analyzed in accordance with the samples

received in the laboratory. This analytical report must be reproduced in its entirety,

with written approval of Environmental Lab of Texas.

Fax: (505) 396-1429

| Basin Environmental Services<br>P.O. Box 301<br>Lovington NM, 88260 |        | Project N          | Project: Lea<br>Jumber: EM<br>anager: Ken | S #2004-00 |         |          |                                       | R         | 05) 396-1<br>eported:<br>1/05 10:0 |     |
|---|--------|--------------------|---|------------|---------|----------|---------------------------------------|-----------|------------------------------------|-----|
|   |        | Oı                 | ganics b                                  | y GC       |         |          |                                       |           |                                    |     |
|   |        | Environ            | mental L                                  | ab of Te   | exas    |          |                                       |           |                                    |     |
| Analyte   | Result | Reporting<br>Limit | Units                                     | Dilution   | Batch   | Prepared | Analyzed                              | Method    | Analyst                            | Not |
| Middle Floor East (5A05014-03) Soil                                 |        |                    |   |            |         |          | · · · · · · · · · · · · · · · · · · · |           |                                    |     |
| Total Hydrocarbon C6-C35  | 71.8   | 10.0               | mg/kg dry                                 | 1          | EA50504 | 01/05/05 | 01/06/05                              | EPA 8015M | ЛН                                 |     |
| Surrogate: 1-Chlorooctane   |        | 96.4 %             | 70-1                                      | 30         | н       | n        |                                       | #         | <u> </u>                           |     |
| Surrogate: 1-Chlorooctadecane                                       |        | 72.0 %             | 70-1                                      | 30         | u       | π        | "                                     | "         |                                    |     |
| Middle Floor South (5A05014-04) Soil                                |        |                    |   |            |         |          |                                       |           |                                    |     |
| Benzene   | ND     | 0.0250             | mg/kg dry                                 | 25         | EA51002 | 01/06/05 | 01/06/05                              | EPA 8021B | cđk                                | -   |
| Toluene   | ND     | 0.0250             | n   |            | *       | P        | "                                     | u         | cdk                                |     |
| Ethylbenzene  | ND     | 0.0250             | *   | *1         |         | N        |                                       | N         | cdk                                |     |
| Xylene (p/m)  | ND     | 0.0250             | **  | "          | "       | "        | N                                     | **        | cdk                                |     |
| Xylene (o)  | ND     | 0.0250             | *   | "          | "       | ۳        | •                                     |           | cdk                                |     |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | 102 %              | 80-1                                      | 20         | n       | π        | 11                                    | "         |                                    |     |
| Surrogate: 4-Bromofluorobenzene                                     |        | 118 %              | 80-1                                      | 20         | "       | "        | "                                     | "         |                                    |     |
| Gasoline Range Organics C6-C12                                      | ND     | 10.0               | mg/kg dry                                 | 1          | EA50504 | 01/05/05 | 01/06/05                              | EPA 8015M | ЛH                                 |     |
| Diesel Range Organics >C12-C35                                      | 29.6   | 10.0               |   | •          |         |          |                                       | "         | ЛН                                 |     |
| Total Hydrocarbon C6-C35  | 29.6   | 10.0               |   | *          |         | "        | "                                     | "         | ЛH                                 |     |
| Surrogate: 1-Chlorooctane   |        | 110 %              | 70-1                                      | 30         | м       | "        | #                                     | "         |                                    |     |
| Surrogate: 1-Chlorooctadecane                                       |        | 86.0 %             | 70-1                                      | 30         | "       | "        | "                                     | "         |                                    |     |
| Middle Floor North (5A05014-05) Soil                                |        |                    |   |            |         |          |                                       |           |                                    |     |
| Benzene   | ND     | 0.0250             | mg/kg dry                                 | 25         | EA51002 | 01/06/05 | 01/06/05                              | EPA 8021B | cdk                                |     |
| Toluene   | ND     | 0.0250             |   | "          |         | •        | "                                     | "         | cdk                                |     |
| Ethylbenzene  | ND     | 0.0250             |   | *          | •       | •        | N                                     | "         | cdk                                |     |
| Xylene (p/m)  | ND     | 0.0250             |   | "          |         | •        | *                                     | м         | cdk                                |     |
| Xylene (o)  | ND     | 0.0250             | "   | "          | "       | "        | "                                     | "         | cdk                                |     |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | 99.8 %             | 80-1                                      | 20         | n       | "        | "                                     | "         |                                    |     |
| Surrogate: 4-Bromofluorobenzene                                     |        | 117 %              | 80-1                                      | 20         | "       | "        | "                                     | "         |                                    |     |
| Gasoline Range Organics C6-C12                                      | ND     | 10.0               | mg/kg dry                                 | 1          | EA50504 | 01/05/05 | 01/06/05                              | EPA 8015M | ЛH                                 |     |
| Diesel Range Organics >C12-C35                                      | ND     | 10.0               |   | **         |         | "        | n                                     | "         | JLH                                |     |
| Total Hydrocarbon C6-C35  | ND     | 10.0               | "   | "          | "       | **       | н                                     | "         | ЛH                                 |     |
| Surrogate: 1-Chlorooctane   |        | 101 %              | 70-1                                      | 30         | "       | u .      | "                                     | "         |                                    |     |
| Surrogate: 1-Chlorooctadecane                                       |        | 80.8 %             | 70-1                                      | 30         | "       | "        | "                                     | "         |                                    |     |

|                                   |        | <u> </u>           | ••         | ·····    |         |          |          |           |         |         |
|-----------------------------------|--------|--------------------|------------|----------|---------|----------|----------|-----------|---------|---------|
|                                   |        |                    | rganics by |          |         |          |          |           |         |         |
|                                   |        |                    | mental La  | b of Te  | exas    |          |          |           |         | <u></u> |
| Analyte                           | Result | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Analyst |         |
| North Exc Floor (5A05014-06) Soil |        |                    |            |          |         |          | ······   | <u> </u>  |         |         |
| Benzene                           | ND     | 0.0250             | mg/kg dry  | 25       | EA51002 | 01/06/05 | 01/06/05 | EPA 8021B | cdk     |         |
| Toluene                           | ND     | 0.0250             | ۳          | •        |         |          | "        | •         | cdk     |         |
| Ethylbenzene                      | ND     | 0.0250             | "          | "        | "       |          | "        |           | cdk     |         |
| (ylene (p/m)                      | ND     | 0.0250             | "          |          | "       |          |          | •         | cdk     |         |
| (ylene (o)                        | ND     | 0.0250             | н          |          | "       |          |          | "         | cdk     |         |
| Surrogate: a,a,a-Trifluorotoluene |        | <i>95.7</i> %      | 80-12      | 0        | "       | "        | "        | "         |         | -       |
| Surrogate: 4-Bromofluorobenzene   |        | 115 %              | 80-12      | 0        | "       | "        | "        | "         |         |         |
| Basoline Range Organics C6-C12    | ND     | 10.0               | mg/kg dry  | 1        | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | ЛН      |         |
| Diesel Range Organics >C12-C35    | ND     | 10.0               | •          | "        | ۲       | н        | "        |           | ЛН      |         |
| Fotal Hydrocarbon C6-C35          | ND     | 10.0               | "          | "        | "       | <b>n</b> | #        | 11        | ЛН      |         |
| Surrogate: 1-Chlorooctane         |        | 96.8 %             | 70-13      | 0        | "       | "        | "        | "         |         |         |
| Surrogate: 1-Chlorooctadecane     |        | 73.0 %             | 70-13      | 0        | "       | "        | "        | "         |         |         |
| North Exc S/SW (5A05014-07) Soil  |        |                    |            |          |         |          |          |           |         |         |
| Benzene                           | ND     | 0.0250             | mg/kg dry  | 25       | EA51003 | 01/06/05 | 01/07/05 | EPA 8021B | cdk     |         |
| Toluene                           | ND     | 0.0250             | **         |          | "       | n        |          | "         | cdk     |         |
| Sthylbenzene                      | ND     | 0.0250             | •          | *        | *       | "        | "        | Ħ         | cdk     |         |
| (ylene (p/m)                      | ND     | 0.0250             | *1         | "        | н       | "        | "        | "         | cdk     |         |
| (ylene (o)                        | ND     | 0.0250             | *          | 11       | 4       |          | "        | "         | cdk     |         |
| Surrogate: a,a,a-Trifluorotoluene |        | 94.8 %             | 80-12      | 0        | "       | "        | "        | "         |         |         |
| Surrogate: 4-Bromofluorobenzene   |        | 110 %              | 80-12      | 0        | "       | "        | "        | "         |         |         |
| asoline Range Organics C6-C12     | ND     | 10.0               | mg/kg đry  | 1        | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | JLH     |         |
| Diesel Range Organics >C12-C35    | ND     | 10.0               | "          | 11       |         | "        |          |           | ЛН      |         |
| Cotal Hydrocarbon C6-C35          | ND     | 10.0               | •          |          |         | "        |          | "         | ЛH      |         |
| Surrogate: I-Chlorooctane         |        | 95.0 %             | 70-13      | 0        | "       | **       | n        | п         |         |         |
| Surrogate: 1-Chlorooctadecane     |        | 73.4%              | 70-13      | 0        | "       | n        | "        | "         |         |         |
| North Exc N/SW (5A05014-08) Soil  |        | <u>.</u>           |            |          |         |          |          |           |         |         |
| Benzene                           | ND     | 0.0250             | mg/kg dry  | 25       | EA51003 | 01/06/05 | 01/07/05 | EPA 8021B | cdk     |         |
| Toluene                           | ND     | 0.0250             | 11         | •        | "       | "        |          | н         | cdk     |         |
| Sthylbenzene                      | ND     | 0.0250             | *          | "        |         | "        |          | "         | cdk     |         |
| ζylene (p/m)                      | ND     | 0.0250             | "          |          |         | "        |          | · "       | cdk     |         |
| (ylene (o)                        | ND     | 0.0250             | "          | "        | **      | **       | •        | •         | cdk     |         |
| 'urrogate: a,a,a-Trifluorotoluene |        | 85.6 %             | 80-12      | 0        | "       | "        | "        | "         |         |         |
| urrogate: 4-Bromofluorobenzene    |        | 108 %              | 80-12      | 0        | "       | "        | "        | и         |         |         |
| asoline Range Organics C6-C12     | ND     | 10.0               | mg/kg dry  | 1        | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | ЛН      |         |
| Diesel Range Organics >C12-C35    | ND     | 10.0               | tt.        |          |         | **       | ••       | "         | ЛH      |         |
| otal Hydrocarbon C6-C35           | ND     | 10.0               |            | м        |         | "        | "        |           | ЛН      |         |

Project: Lea to Dublin 8 inch

**Basin Environmental Services** 

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|---|--------|--------------------|--|-------------|---------|----------|----------|-----------|--------------------------------------|------|
|   |        | Oı                 | ganics b                                 | y GC        |         |          |          |           |                                      |      |
|   |        | Environ            | mental L                                 | ab of Te    | xas     |          |          |           |                                      |      |
| Analyte   | Result | Reporting<br>Limit | Units                                    | Dilution    | Batch   | Prepared | Analyzed | Method    | Analyst                              | Note |
| North Exc N/SW (5A05014-08) Soil                                    |        |                    |  |             |         |          |          |           |                                      |      |
| Surrogate: 1-Chlorooctane   |        | 99.4 %             | 70-1                                     | 130         | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M |                                      |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 73.8 %             | <b>70-</b> 1                             | 130         | "       | "        | 14       | "         |                                      |      |
| North P/L Floor (5A05014-09) Soil                                   | ···    |                    |  |             |         |          |          |           |                                      |      |
| Benzene   | ND     | 0.0250             | mg/kg dry                                | 25          | EA51003 | 01/06/05 | 01/07/05 | EPA 8021B | cdk                                  |      |
| Foluene   | 0.370  | 0.0250             |  |             | 80      | 11       | •        | "         | cdk                                  |      |
| Ethylbenzene  | 0.552  | 0.0250             | "  | "           | 11      |          |          |           | cdk                                  |      |
| Xylene (p/m)  | 1.09   | 0.0250             | 19                                       | "           | "       | **       |          |           | cdk                                  |      |
| Xylene (0)  | 0.618  | 0.0250             | N  | "           | •       | H        | "        | 11        | cdk                                  |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | <i>99.8 %</i>      | 80-1                                     | 20          | n       | "        | "        | "         |                                      |      |
| Surrogate: 4-Bromofluorobenzene                                     |        | 121 %              | 80-1                                     | 20          | "       | "        | "        | "         |                                      | S-   |
| Gasoline Range Organics C6-C12                                      | 44.9   | 10.0               | mg/kg dry                                | 1           | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | ЛН                                   |      |
| Diesel Range Organics >C12-C35                                      | 131    | 10.0               | "  |             | 11      | "        | *        | "         | ЛН                                   |      |
| Total Hydrocarbon C6-C35  | 176    | 10.0               |  | "           | н       | "        |          | *         | ЛН                                   |      |
| Surrogate: 1-Chlorooctane   |        | 108 %              | 70-1                                     | 130         | "       | "        | "        | "         |                                      |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 82.0 %             | 70-1                                     | 130         | "       | "        | n        | "         |                                      |      |
| North P/L N/SW (5A05014-10) Soil                                    |        |                    | • · · · · ·                              |             |         |          |          |           |                                      |      |
| Benzene   | ND     | 0.0250             | mg/kg dry                                | 25          | EA51003 | 01/06/05 | 01/10/05 | EPA 8021B | cdk                                  |      |
| Foluene   | ND     | 0.0250             | "  | w           | "       |          | H        |           | cdk                                  |      |
| Ethylbenzene  | ND     | 0.0250             |  | "           | "       | *        | "        | "         | cdk                                  |      |
| Xylene (p/m)  | ND     | 0.0250             | "  |             | "       | ••       | ч        | "         | cdk                                  |      |
| Xylene (o)  | ND     | 0.0250             | н  | "           | "       | "        |          |           | cdk                                  |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | 108 %              | 80-1                                     |             | н       | "        | "        | "         |                                      |      |
| Surrogate: 4-Bromofluorobenzene                                     |        | 116 %              | 80-1                                     |             | п       | "        | n        | "         |                                      |      |
| Gasoline Range Organics C6-C12                                      | ND     |                    | mg/kg dry                                | ł           | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M |                                      |      |
| Diesel Range Organics >C12-C35                                      | ND     | 10.0               | **                                       |             | •       | н        | "        | "         | ЛН                                   |      |
| Fotal Hydrocarbon C6-C35  | ND     | 10.0               |  | *           |         | н        | ••       | "         | ЛН                                   |      |
| Surrogate: 1-Chlorooctane   |        | 95.0 %             | 70-1                                     |             | "       | "        | n        | "         |                                      |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 73.2 %             | 70-1                                     | 30          | n       | "        | "        | "         |                                      |      |

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|---|------------|--------------------|--|----------|----------|----------|----------|-----------|--------------------------------------|------|
|   |            | O                  | rganics by                                   | GC       |          |          |          |           |                                      |      |
|   |            | Environ            | mental La                                    | b of Te  | exas     |          |          |           |                                      |      |
| Analyte   | Result     | Reporting<br>Limit | Units  | Dilution | Batch    | Prepared | Analyzed | Method    | Analyst                              | Note |
| North P/L S/SW (5A05014-11) Soil                                    |            |                    |  |          |          |          |          |           |                                      |      |
| Benzene   | ND         | 0.0250             | mg/kg dry                                    | 25       | EA51003  | 01/06/05 | 01/10/05 | EPA 8021B | cdk                                  |      |
| Toluene   | ND         | 0.0250             |  |          |          | "        | n        | *         | cdk                                  |      |
| Ethylbenzene  | ND         | 0.0250             | 69   | "        |          |          |          |           | cdk                                  |      |
| Xylene (p/m)  | ND         | 0.0250             | n  | *        |          | "        | Ħ        |           | cdk                                  |      |
| Xylene (o)  | ND         | 0.0250             | н  | "        | ۲        | "        | "        | n         | cdk                                  |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |            | 109 %              | 80-12  | 0        | "        | "        | "        | "         |                                      |      |
| Surrogate: 4-Bromofluorobenzene                                     |            | 113 %              | 80-12  | 0        | "        | "        | "        | "         |                                      |      |
| Gasoline Range Organics C6-C12                                      | ND         | 10.0               | mg/kg dry                                    | 1        | EA50504  | 01/05/05 | 01/06/05 | EPA 8015M | ЛН                                   |      |
| Diesel Range Organics >C12-C35                                      | ND         | 10.0               | **   | "        | •        |          | "        | •         | ЛН                                   |      |
| Total Hydrocarbon C6-C35  | ND         | 10.0               |  | "        |          | и        | "        | н         | ЛН                                   |      |
| Surrogate: 1-Chlorooctane   |            | 95.0 %             | 70-13  | 0        | n        | "        | #        | "         |                                      | •••  |
| Surrogate: 1-Chlorooctadecane                                       |            | 75.8 %             | 70-13  | 0        | "        | "        | "        | "         |                                      |      |
| North Floor (5A05014-12) Soil                                       |            |                    |  |          |          |          |          |           |                                      |      |
| Benzene   | J [0.0174] | 0.0250             | mg/kg dry                                    | 25       | EA51003  | 01/06/05 | 01/07/05 | EPA 8021B | cdk                                  |      |
| Toluene   | 0.315      | 0.0250             |  | "        |          | "        | "        |           | cdk                                  |      |
| Ethylbenzene  | 0.169      | 0.0250             |  | -        | •        | N        | n        |           | cdk                                  |      |
| Xylene (p/m)  | 0.0960     | 0.0250             |  |          |          | "        |          |           | cdk                                  |      |
| Xylene (0)  | 0.0608     | 0.0250             |  | "        |          | 19       | "        |           | cdk                                  |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |            | 107 %              | 80-12  | 0        | "        | "        | п        | "         |                                      |      |
| Surrogate: 4-Bromofluorobenzene                                     |            | 117 %              | 80-12  | 0        | "        | H        | w        | "         |                                      |      |
| Gasoline Range Organics C6-C12                                      | ND         | 10.0               | mø/kø drv                                    | 1        | EA 50504 | 01/05/05 | 01/06/05 | FPA 8015M | пн                                   |      |

|   | Gasoline Range Organics C6-C12 | ND | 10.0   | mg/kg dry | 1 | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | ЛН |
|---|--------------------------------|----|--------|-----------|---|---------|----------|----------|-----------|----|
| • | Diesel Range Organics >C12-C35 | ND | 10.0   | "         | " | •       | "        | *        |           | ЛН |
| _ | Total Hydrocarbon C6-C35       | ND | 10.0   | H         | n | •       | *        | · •      | н         | ЛН |
|   | Surrogate: 1-Chlorooctane      |    | 94.8 % | 70-130    | ) | "       | "        | и        | H         |    |
|   | Surrogate: 1-Chlorooctadecane  |    | 74.2 % | 70-130    | ) | u       | "        | "        |           |    |
|   |                                |    |        |           |   |         |          |          |           |    |

#### Stockpile North (5A05014-13) Soil

| Benzene                           | 0.160 | 0.0250 | mg/kg dry | 25 | EA51003 | 01/06/05 | 01/07/05 | EPA 8021B | cdk |      |
|-----------------------------------|-------|--------|-----------|----|---------|----------|----------|-----------|-----|------|
| Toluene                           | 7.24  | 0.0250 |           |    | "       | "        | "        | "         | cdk |      |
| Ethylbenzene                      | 7.71  | 0.0250 |           |    |         | и        | "        | H         | cdk |      |
| Xylene (p/m)                      | 11.7  | 0.0250 | "         |    | *       | "        | n        | н         | cdk |      |
| Xylene (o)                        | 4.51  | 0.0250 | P         | "  | "       |          | "        |           | cdk |      |
| Surrogate: a,a,a-Trifluorotoluene |       | 177 %  | 80-12     | 0  | "       | и        | "        | "         |     | S-04 |
| Surrogate: 4-Bromofluorobenzene   |       | 182 %  | 80-12     | 0  | "       | "        | "        | H         |     | S-04 |
| Gasoline Range Organics C6-C12    | 188   | 10.0   | mg/kg dry | 1  | EA50504 | 01/05/05 | 01/06/05 | EPA 8015M | ЛH  |      |
| Diesel Range Organics >C12-C35    | 184   | 10.0   | n         | "  | **      | **       | n        | H         | ЛН  |      |
|                                   |       |        |           |    |         |          |          |           |     |      |

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|---|--------|--------------------|--|------------|----------------|---|----------|-----------|---------|------|
|   |        | Oı                 | ganics b                                 | y GC       |                |   |          |           |         |      |
|   |        | Environ            | mental L                                 | ab of Te   | exas           |   |          |           |         |      |
| Analyte   | Result | Reporting<br>Limit | Units                                    | Dilution   | Batch          | Prepared  | Analyzed | Method    | Analyst | Note |
| Stockpile North (5A05014-13) Soil                                   |        |                    |  |            |                |   |          |           |         |      |
| Total Hydrocarbon C6-C35  | 372    | 10.0               | mg/kg dry                                | 1          | EA50504        | 01/05/05  | 01/06/05 | EPA 8015M | ЛH      |      |
| Surrogate: 1-Chlorooctane   |        | 112%               | 70-1                                     | 30         | "              | "   | "        | "         |         |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 80.4 %             | 70-1                                     | 30         | "              | "   | "        | "         |         |      |
| Stockpile South (5A05014-14) Soil                                   |        |                    |  |            |                |   |          |           |         |      |
| Benzene   | 0.0418 | 0.0250             | mg/kg dry                                | 25         | EA51003        | 01/06/05  | 01/07/05 | EPA 8021B | cdk     |      |
| Toluene   | 1.30   | 0.0250             |  | **         | -              | "   | "        | "         | cdk     |      |
| Ethylbenzene  | 2.10   | 0.0250             | *  |            | •              |   |          | "         | cdk     |      |
| Xylene (p/m)  | 2.89   | 0.0250             |  |            | •              | •   | *        | ۳         | cdk     |      |
| Xylene (0)  | 1.21   | 0.0250             | "  | "          |                |   | и        |           | cdk     |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | 117 %              | 80-1                                     | 20         | "              | "   | "        | "         |         |      |
| Surrogate: 4-Bromofluorobenzene                                     |        | 132 %              | 80-1                                     | 20         | "              | "   | "        | "         |         | S-(  |
| Gasoline Range Organics C6-C12                                      | 81.2   | 10.0               | mg/kg dry                                | 1          | EA50504        | 01/05/05  | 01/06/05 | EPA 8015M | ЛH      |      |
| Diesel Range Organics >C12-C35                                      | 98.5   | 10.0               | *  |            | "              | n   | **       | v         | ЛН      |      |
| Total Hydrocarbon C6-C35  | 180    | 10.0               | "  | "          | "              | n   | "        | "         | ЛН      |      |
| Surrogate: 1-Chlorooctane   |        | 109 %              | 70-1                                     | 30         | "              | H   | и        | "         |         |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 80.4 %             | 70-1                                     | 30         | "              | "   | *        | "         |         |      |
| Stockpile East (5A05014-15) Soil                                    |        |                    |  |            |                |   |          |           |         |      |
| Benzene   | 21.3   | 0.200              | mg/kg dry                                | 200        | EA51003        | 01/06/05  | 01/07/05 | EPA 8021B | cdk     |      |
| Toluene   | 340    | 0.200              | "  | **         | м              | **  | H        | *         | cdk     |      |
| Ethylbenzene  | 257    | 0.200              |  | *1         | M              | "   | "        |           | cdk     |      |
| Kylene (p/m)  | 230    | 0,200              | н  | 62         | t <del>v</del> |   | "        |           | cdk     |      |
| Xylene (0)  | 92.9   | 0.200              | 11                                       | ff         | н              | "   | n        | 4         | cdk     |      |
| Surrogate: a,a,a-Trifluorotoluene                                   |        | 1060 %             | 80-1                                     | 20         | "              | "   | "        | n         |         | S-0  |
| Surrogate: 4-Bromofluorobenzene                                     |        | 151 %              | 80-1                                     | 20         | "              | n   | н        | "         |         | S-C  |
| Gasoline Range Organics C6-C12                                      | 10400  | 50.0               | mg/kg dry                                | 5          | EA50504        | 01/05/05  | 01/06/05 | EPA 8015M | ЛН      |      |
| Diesel Range Organics >C12-C35                                      | 9420   | 50.0               | 87                                       | 91         | "              | "   | -        | •         | ЛН      |      |
| Fotal Hydrocarbon C6-C35  | 19800  | 50.0               | н  | н          | "              | "   | "        | н         | ЛН      |      |
| Surrogate: 1-Chlorooctane   |        | 49.6 %             | 70-1                                     | 30         | "              | "   | n        | "         |         |      |
| Surrogate: 1-Chlorooctadecane                                       |        | 27.8 %             | 70-1                                     | 20         | n              | "   | "        | "         |         | S-0  |

Environmental Lab of Texas

|   | Basin Environmental Services | Project:         | Lea to Dublin 8 inch | Fax: (505) 396-1429 |
|---|------------------------------|------------------|----------------------|---------------------|
|   | P.O. Box 301                 | Project Number:  | EMS #2004-00223      | Reported:           |
| ' | Lovington NM, 88260          | Project Manager: | Ken Dutton           | 01/11/05 10:08      |

### Organics by GC

### **Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared                              | Analyzed | Method    | Analyst | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|---------------------------------------|----------|-----------|---------|-------|
| Stockpile West (5A05014-16) Soil  |        |                    |           |          |         | · · · · · · · · · · · · · · · · · · · |          |           |         |       |
| Benzene                           | ND     | 0.0250             | mg/kg dry | 25       | EA51003 | 01/06/05                              | 01/10/05 | EPA 8021B | cdk     |       |
| Toluene                           | 0.133  | 0.0250             |           | "        | *       | н                                     | "        | *         | cdk     |       |
| Ethylbenzene                      | 0.132  | 0.0250             | u         | *        | и       |                                       | ۳        |           | cdk     |       |
| Xylene (p/m)                      | 0.711  | 0.0250             | н         |          | 71      |                                       | "        | "         | cdk     |       |
| Xylene (o)                        | 0.426  | 0.0250             | "         | 14       | "       |                                       | "        | "         | cdk     |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 102 %              | 80-12     | 20       | "       | "                                     | "        | "         |         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 112 %              | 80-12     | 20       | "       | 17                                    | "        | "         |         |       |
| Gasoline Range Organics C6-C12    | 110    | 10.0               | mg/kg dry | 1        | EA50504 | 01/05/05                              | 01/06/05 | EPA 8015M | ЛH      |       |
| Diesel Range Organics >C12-C35    | 232    | 10.0               |           |          | "       |                                       | "        | "         | ЛH      |       |
| Total Hydrocarbon C6-C35          | 342    | 10.0               |           |          | "       | "                                     | •        | "         | ЛН      |       |
| Surrogate: 1-Chlorooctane         |        | 105 %              | 70-13     | 30       | "       | "                                     | "        | п         |         |       |
| Surrogate: 1-Chlorooctadecane     |        | 80.6 %             | 70-13     | 80       | "       | "                                     | "        | "         |         |       |

### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

|                                      |        |                    | i chicui h |          |         |          |          |               |         |    |
|--------------------------------------|--------|--------------------|------------|----------|---------|----------|----------|---------------|---------|----|
| Analyte                              | Result | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method        | Analyst | No |
| South Exc SW (5A05014-01) Soil       |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 13.4   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| South Exc Floor (5A05014-02) Soil    |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 7.7    |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| Middle Floor East (5A05014-03) Soil  |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 17.0   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| Middle Floor South (5A05014-04) Soil |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 14.4   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| Middle Floor North (5A05014-05) Soil |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 12.9   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| North Exc Floor (5A05014-06) Soil    |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 7.6    |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| North Exc S/SW (5A05014-07) Soil     |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 21.0   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| North Exc N/SW (5A05014-08) Soil     |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 10.5   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| North P/L Floor (5A05014-09) Soil    |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 13.6   |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |
| North P/L N/SW (5A05014-10) Soil     |        |                    |            |          |         |          |          |               |         |    |
| % Moisture                           | 5.3    |                    | %          | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |    |

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#### General Chemistry Parameters by EPA / Standard Methods

|                                   |        | Environn           | nental I | ab of Te | exas    |          |          |               |         |          |
|-----------------------------------|--------|--------------------|----------|----------|---------|----------|----------|---------------|---------|----------|
| Analyte                           | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method        | Analyst | Note     |
| North P/L S/SW (5A05014-11) Soil  |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 4.0    |                    | %        | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | n LC    |          |
| North Floor (5A05014-12) Soil     |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 30.7   |                    | %        | I        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |          |
| Stockpile North (5A05014-13) Soil |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 11.1   |                    | %        | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |          |
| Stockpile South (5A05014-14) Soil |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 10.3   |                    | %        | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | ı LC    |          |
| Stockpile East (5A05014-15) Soil  |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 8.6    |                    | %        | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      |          |
| Stockpile West (5A05014-16) Soil  |        |                    |          |          |         |          |          |               |         |          |
| % Moisture                        | 0.9    |                    | %        | 1        | EA50511 | 01/05/05 | 01/06/05 | % calculation | LC      | <u> </u> |

Basin Environmental Services P.O. Box 301 Lovington NM, 88260

#### Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

#### **Organics by GC - Quality Control**

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|---------------|-----|----|-------|
|---------------|-----|----|-------|

| Analyte                                 | Result | Reporting<br>Limit                    | Units     | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |  |
|---|--------|---------------------------------------|-----------|----------------|------------------|-------------|----------------|-----|--------------|-------|--|
| Batch EA50504 - Solvent Extraction (GC) |        |                                       |           | Analyst:       | Л.Н              |             |                |     |              |       |  |
| Blank (EA50504-BLK1)                    |        |                                       |           | Prepared &     | Analyzed:        | 01/05/05    |                |     |              |       |  |
| Gasoline Range Organics C6-C12          | ND     | 10.0                                  | mg/kg wet |                |                  | · · · · ·   |                |     |              |       |  |
| Diesel Range Organics >C12-C35          | ND     | 10.0                                  | "         |                |                  |             |                |     |              |       |  |
| Total Hydrocarbon C6-C35                | ND     | 10.0                                  | "         |                |                  |             |                |     |              |       |  |
| Surrogate: 1-Chlorooctane               | 38.5   |                                       | mg/kg     | 50.0           |                  | 77.0        | 70-130         |     |              |       |  |
| Surrogate: 1-Chlorooctadecane           | 36.6   |                                       | "         | 50.0           |                  | 73.2        | 70-130         |     |              |       |  |
| Blank (EA50504-BLK2)                    |        | Prepared: 01/05/05 Analyzed: 01/06/05 |           |                |                  |             |                |     |              |       |  |
| Gasoline Range Organics C6-C12          | ND     | 10.0                                  | mg/kg wet |                | · · ·            |             |                |     |              |       |  |
| Diesel Range Organics >C12-C35          | ND     | 10.0                                  | n         |                |                  |             |                |     |              |       |  |
| Total Hydrocarbon C6-C35                | ND     | 10.0                                  | "         |                |                  |             |                |     |              |       |  |
| Surrogate: 1-Chlorooctane               | 39.3   |                                       | mg/kg     | 50.0           |                  | 78.6        | 70-130         |     |              |       |  |
| Surrogate: 1-Chlorooctadecane           | 37.6   |                                       | "         | 50.0           |                  | 75.2        | 70-130         |     |              |       |  |
| LCS (EA50504-BS1)                       |        |                                       |           | Prepared &     | Analyzed:        | 01/05/05    |                |     |              |       |  |
| Gasoline Range Organics C6-C12          | 483    | 10.0                                  | mg/kg wet | 500            |                  | 96.6        | 75-125         |     |              |       |  |
| Diesel Range Organics >C12-C35          | 481    | 10.0                                  | "         | 500            |                  | 96.2        | 75-125         |     |              |       |  |
| Total Hydrocarbon C6-C35                | 964    | 10.0                                  |           | 1000           |                  | 96.4        | 75-125         |     |              |       |  |
| Surrogate: 1-Chlorooctane               | 47.5   |                                       | mg/kg     | 50.0           |                  | 95.0        | 70-130         |     |              |       |  |
| Surrogate: 1-Chlorooctadecane           | 37.5   |                                       | "         | 50.0           |                  | 75.0        | 70-130         |     |              |       |  |
| LCS (EA50504-BS2)                       |        |                                       |           | Prepared: 0    | )1/05/05 Aı      | nalyzed: 01 | /06/05         |     |              |       |  |
| Gasoline Range Organics C6-C12          | 492    | 10.0                                  | mg/kg wet | 500            | · · · · · ·      | 98.4        | 75-125         |     |              |       |  |
| Diesel Range Organics >C12-C35          | 488    | 10.0                                  |           | 500            |                  | 97.6        | 75-125         |     |              |       |  |
| Total Hydrocarbon C6-C35                | 980    | 10.0                                  |           | 1000           |                  | 98.0        | 75-125         |     |              |       |  |
| Surrogate: 1-Chlorooctane               | 48.8   |                                       | mg/kg     | 50.0           |                  | 97.6        | 70-130         |     |              |       |  |
| Surrogate: 1-Chlorooctadecane           | 39.7   |                                       | "         | 50.0           |                  | 79.4        | 70-130         |     |              |       |  |
| Calibration Check (EA50504-CCV1)        |        |                                       |           | Prepared &     | Analyzed:        | 01/05/05    |                |     |              |       |  |
| Gasoline Range Organics C6-C12          | 540    |                                       | mg/kg     | 500            |                  | 108         | 80-120         |     |              |       |  |
| Diesel Range Organics >C12-C35          | 560    |                                       | *         | 500            |                  | 112         | 80-120         |     |              |       |  |
| Total Hydrocarbon C6-C35                | 1100   |                                       | **        | 1000           |                  | 110         | 80-120         |     |              |       |  |
| Surrogate: 1-Chlorooctane               | 55.5   |                                       | "         | 50.0           |                  | 111         | 70-130         |     |              |       |  |
| Surrogate: 1-Chlorooctadecane           | 37.6   |                                       | "         | 50.0           |                  | 75.2        | 70-130         |     |              |       |  |

| Basin Environmental Services<br>P.O. Box 301<br>Lovington NM, 88260 | Project: Lea to Dublin 8 inch<br>Project Number: EMS #2004-00223<br>Project Manager: Kcn Dutton |                    |            |                                       |                                       |              |                |       | Fax: (505) 396-1429<br>Reported:<br>01/11/05 10:08 |           |  |
|---|---|--------------------|------------|---------------------------------------|---------------------------------------|--------------|----------------|-------|--|-----------|--|
|   | O   | ganics by          |            |                                       |                                       |              |                |       |  |           |  |
|   |   | Environ            | nental L   | ab of Te                              | kas                                   |              |                |       |  |           |  |
| Analyte   | Result  | Reporting<br>Limit | Units      | Spike<br>Level                        | Source<br>Result                      | %REC         | %REC<br>Limits | RPD   | RPD<br>Limit                                       | Notes     |  |
| Batch EA50504 - Solvent Extraction (GC)                             |   |                    |            | Analyst:                              | ЛН                                    |              |                |       |  |           |  |
| Calibration Check (EA50504-CCV2)                                    |   |                    |            | Prepared: (                           | 01/05/05 A                            | nalyzed: 01  | /06/05         |       |  |           |  |
| Gasoline Range Organics C6-C12                                      | 568   |                    | mg/kg      | 500                                   |                                       | 114          | 80-120         |       |  |           |  |
| Diesel Range Organics >C12-C35                                      | 575   |                    | "          | 500                                   |                                       | 115          | 80-120         |       |  |           |  |
| Total Hydrocarbon C6-C35  | 1140  |                    | "          | 1000                                  |                                       | 114          | 80-120         |       |  |           |  |
| Surrogate: 1-Chlorooctane   | 59.5  |                    | "          | 50.0                                  |                                       | 119          | 70-130         |       |  |           |  |
| Surrogate: 1-Chlorooctadecane                                       | 38.9  |                    | "          | 50.0                                  |                                       | 77.8         | 70-130         |       |  |           |  |
| Matrix Spike (EA50504-MS1)  | Sou   | rce: 5A04009       | <b>}01</b> | Prepared &                            | Analyzed:                             | 01/05/05     |                |       |  |           |  |
| Jasoline Range Organics C6-C12                                      | 496   | 10.0               | mg/kg dry  | 546                                   | 11.5                                  | 88.7         | 75-125         |       |  |           |  |
| Diesel Range Organics >C12-C35                                      | 606   | 10.0               |            | 546                                   | 66.5                                  | 98.8         | 75-125         |       |  |           |  |
| Total Hydrocarbon C6-C35  | 1100  | 10.0               | "          | 1090                                  | 78.0                                  | 93.8         | 75-125         |       |  |           |  |
| Surrogate: 1-Chlorooctane   | 56.6  |                    | mg/kg      | 50.0                                  | *****                                 | 113          | 70-130         |       |  |           |  |
| Surrogate: 1-Chlorooctadecane                                       | 39.5  |                    | "          | 50.0                                  |                                       | 79.0         | 70-130         |       |  |           |  |
| Matrix Spike (EA50504-MS2)  | Sou   | rce: 5A05014       | 1-08       | Prepared: 01/05/05 Analyzed: 01/06/05 |                                       |              |                |       |  |           |  |
| Gasoline Range Organics C6-C12                                      | 618   | 10.0               | mg/kg dry  | 559                                   | ND                                    | 111          | 75-125         |       |  | · · · · · |  |
| Diesel Range Organics >C12-C35                                      | 644   | 10.0               | "          | 559                                   | ND                                    | 115          | 75-125         |       |  |           |  |
| Total Hydrocarbon C6-C35  | 1260  | 10.0               |            | 1120                                  | ND                                    | 112          | 75-125         |       |  |           |  |
| Surrogate: 1-Chlorooctane   | 56.0  |                    | mg/kg      | 50.0                                  |                                       | 112          | 70-130         |       |  |           |  |
| Surrogate: 1-Chlorooctadecane                                       | 40.7  |                    | "          | 50.0                                  |                                       | 81.4         | 70-130         |       |  |           |  |
| Matrix Spike Dup (EA50504-MSD1)                                     | Sou   | rce: 5A04009       | 9-01       | Prepared: (                           | 01/05/05 Ai                           | nalyzed: 01  | /06/05         |       |  |           |  |
| Gasoline Range Organics C6-C12                                      | 497   | 10.0               | mg/kg dry  | 546                                   | 11.5                                  | 88.9         | 75-125         | 0.201 | 20   |           |  |
| Diesel Range Organics >C12-C35                                      | 650   | 10.0               | "          | 546                                   | 66.5                                  | 107          | 75-125         | 7.01  | 20   |           |  |
| Total Hydrocarbon C6-C35  | 1150  | 10.0               | "          | 1090                                  | 78.0                                  | 98.3         | 75-125         | 4.44  | 20   |           |  |
| Surrogate: 1-Chlorooctane   | 56.8  |                    | mg/kg      | 50.0                                  |                                       | 114          | 70-130         |       |  |           |  |
| Surrogate: 1-Chlorooctadecane                                       | 46.5  |                    | "          | 50.0                                  |                                       | <i>93</i> .0 | 70-130         |       |  |           |  |
| Matrix Spike Dup (EA50504-MSD2)                                     | Source: 5A05014-08 F  |                    |            | Prepared: 01/05/05 Analyzed: 01/06/05 |                                       |              |                |       |  |           |  |
| Fasoline Range Organics C6-C12                                      | 643   | 10.0               | mg/kg dry  | 559                                   | ND                                    | 115          | 75-125         | 3.97  | 20   |           |  |
| Diesel Range Organics >C12-C35                                      | 644   | 10.0               | **         | 559                                   | ND                                    | 115          | 75-125         | 0.00  | 20   |           |  |
| Fotal Hydrocarbon C6-C35  | 1290  | 10.0               | *          | 1120                                  | ND                                    | 115          | 75-125         | 2.35  | 20   |           |  |
| Surrogate: 1-Chlorooctane   | 56.5  |                    | mg/kg      | 50.0                                  | · · · · · · · · · · · · · · · · · · · | 113          | 70-130         |       |  |           |  |
| Surrogate: 1-Chlorooctadecane                                       | 41.1  |                    | "          | 50.0                                  |                                       | 82.2         | 70-130         |       |  |           |  |

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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#### Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

01/11/05 10:08

#### **Organics by GC - Quality Control**

| Analyte                             | Result | Reporting<br>Limit                      | Units     | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit                          | Notes  |
|-------------------------------------|--------|---|-----------|----------------|------------------|-------------|----------------|-----|---------------------------------------|--------|
| Analyte                             | Kesuli |   |           |                |                  | /iKEC       |                |     |                                       | 140023 |
| Batch EA51002 - EPA 5030C (GC)      |        |   |           | Analyst:       | cdk              |             |                |     |                                       |        |
| Blank (EA51002-BLK1)                |        |   |           | Prepared &     | Analyzed:        | 01/06/05    |                |     |                                       |        |
| Benzene                             | ND     | 0.0250                                  | mg/kg wet |                |                  |             |                |     |                                       |        |
| Toluene                             | ND     | 0.0250                                  |           |                |                  |             |                |     |                                       |        |
| Ethylbenzene                        | ND     | 0.0250                                  | н         |                |                  |             |                |     |                                       |        |
| Xylene (p/m)                        | ND     | 0.0250                                  | "         |                |                  |             |                |     |                                       |        |
| Xylene (0)                          | ND     | 0.0250                                  | "         |                |                  |             |                |     |                                       |        |
| Surrogate: a,a,a-Trifluorotoluene   | 90.1   | <u> </u>                                | ug/kg     | 100            |                  | 90.1        | 80-120         |     |                                       |        |
| Surrogate: 4-Bromofluorobenzene     | 119    |   | μ         | 100            |                  | 119         | 80-120         |     |                                       |        |
| LCS (EA51002-BS1)                   |        |   |           | Prepared &     | Analyzed:        | 01/06/05    |                |     |                                       |        |
| Benzene                             | 87.5   |   | ug/kg     | 100            |                  | 87.5        | 80-120         |     |                                       |        |
| Toluene                             | 87.4   |   | "         | 100            |                  | 87.4        | 80-120         |     |                                       |        |
| Ethylbenzene                        | 107    |   | н         | 100            |                  | 107         | 80-120         |     |                                       |        |
| Xylene (p/m)                        | 239    |   |           | 200            |                  | 120         | 80-120         |     |                                       |        |
| Xylene (o)                          | 119    |   | **        | 100            |                  | 119         | 80-120         |     |                                       |        |
| Surrogate: a, a, a-Trifluorotoluene | 101    |   | и         | 100            |                  | 101         | 80-120         |     |                                       |        |
| Surrogate: 4-Bromofluorobenzene     | 117    |   | "         | 100            |                  | 117         | 80-120         |     |                                       |        |
| Calibration Check (EA51002-CCV1)    |        |   |           | Prepared: 0    | 1/06/05 A        | nalyzed: 01 | /09/05         |     |                                       |        |
| Benzene                             | 99.9   |   | ug/kg     | 100            |                  | 99.9        | 80-120         |     |                                       |        |
| Toluene                             | 104    |   |           | 100            |                  | 104         | 80-120         |     |                                       |        |
| Ethylbenzene                        | 99.4   |   | "         | 100            |                  | 99.4        | 80-120         |     |                                       |        |
| Xylene (p/m)                        | 215    |   | "         | 200            |                  | 108         | 80-120         |     |                                       |        |
| Xylene (o)                          | 101    |   |           | 100            |                  | 101         | 80-120         |     |                                       |        |
| Surrogate: a, a, a-Trifluorotoluene | 117    |   | "         | 100            |                  | 117         | 80-120         |     | · · · · · · · · · · · · · · · · · · · |        |
| Surrogate: 4-Bromofluorobenzene     | 115    |   | "         | 100            |                  | 115         | 80-120         |     |                                       |        |
| Matrix Spike (EA51002-MS1)          | Sou    | rce: 5A05014                            | -06       | Prepared &     | Analyzed:        | 01/06/05    |                |     |                                       |        |
| Benzene                             | 90.4   | • | ug/kg     | 100            | ND               | 90.4        | 80-120         |     |                                       |        |
| Toluene                             | 96.2   |   |           | 100            | ND               | 96.2        | 80-120         |     |                                       |        |
| Ethylbenzene                        | 109    |   |           | 100            | ND               | 109         | 80-120         |     |                                       |        |
| Xylene (p/m)                        | 239    |   | *         | 200            | ND               | 120         | 80-120         |     |                                       |        |
| Xylene (o)                          | 118    |   |           | 100            | ND               | 118         | 80-120         |     |                                       |        |
| Surrogate: a,a,a-Trifluorotoluene   | 114    |   | "         | 100            |                  | 114         | 80-120         |     |                                       |        |
| Surrogate: 4-Bromofluorobenzene     | 115    |   | "         | 100            |                  | 115         | 80-120         |     |                                       |        |

#### Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

Fax: (505) 396-1429 Reported:

01/11/05 10:08

#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

| Analyte                           | Result | Reporting<br>Limit                     | Units     | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-----------------------------------|--------|--|-----------|----------------|------------------|----------|----------------|------|--------------|-------|
| Batch EA51002 - EPA 5030C (GC)    |        |  |           | Analyst:       | cdk              |          |                |      |              |       |
| Matrix Spike Dup (EA51002-MSD1)   | Sou    | rce: 5A05014                           | 1-06      | Prepared &     | Analyzed:        | 01/06/05 |                |      |              |       |
| Benzene                           | 93.2   |  | ug/kg     | 100            | ND               | 93.2     | 80-120         | 3.05 | 20           |       |
| Foluene                           | 101    |  | n         | 100            | ND               | 101      | 80-120         | 4.87 | 20           |       |
| Ethylbenzene                      | 113    |  | "         | 100            | ND               | 113      | 80-120         | 3.60 | 20           |       |
| Xylene (p/m)                      | 239    |  | 14        | 200            | ND               | 120      | 80-120         | 0.00 | 20           |       |
| Xylene (o)                        | 113    |  | "         | 100            | ND               | 113      | 80-120         | 4.33 | 20           |       |
| Surrogate: a,a,a-Trifluorotoluene | 118    | ······································ | N         | 100            |                  | 118      | 80-120         |      |              |       |
| Surrogate: 4-Bromofluorobenzene   | 114    |  | "         | 100            |                  | 114      | 80-120         |      |              |       |
| Batch EA51003 - EPA 5030C (GC)    |        |  |           | Analyst:       | cdk              |          |                |      |              |       |
| Blank (EA51003-BLK1)              |        |  |           | Prepared &     | Analyzed:        | 01/06/05 |                |      |              |       |
| Benzene                           | ND     | 0.0250                                 | mg/kg wet |                |                  |          |                |      |              |       |
| Foluene                           | ND     | 0.0250                                 | "         |                |                  |          |                |      |              |       |
| Ethylbenzene                      | ND     | 0.0250                                 | •         |                |                  |          |                |      |              |       |
| Xylene (p/m)                      | ND     | 0.0250                                 |           |                |                  |          |                |      |              |       |
| Xylene (o)                        | ND     | 0.0250                                 |           |                |                  |          |                |      |              |       |
| Surrogate: a,a,a-Trifluorotoluene | 84.8   |  | ug/kg     | 100            |                  | 84.8     | 80-120         |      |              |       |
| Surrogate: 4-Bromofluorobenzene   | 97.7   |  | "         | 100            |                  | 97.7     | 80-120         |      |              |       |
| LCS (EA51003-BS1)                 |        |  |           | Prepared &     | Analyzed:        | 01/06/05 |                |      |              |       |
| Benzene                           | 91.3   | ·····                                  | ug/kg     | 100            |                  | 91.3     | 80-120         |      |              |       |
| Foluene                           | 95.5   |  | 49        | 100            |                  | 95.5     | 80-120         |      |              |       |
| Ethylbenzene                      | 104    |  | *         | 100            |                  | 104      | 80-120         |      |              |       |
| Kylene (p/m)                      | 231    |  | "         | 200            |                  | 116      | 80-120         |      |              |       |
| (ylene (o)                        | 112    |  | •         | 100            |                  | 112      | 80-120         |      |              |       |
| urrogate: a,a,a-Trifluorotoluene  | 115    |  | "         | 100            |                  | 115      | 80-120         |      |              |       |
| Surrogate: 4-Bromofluorobenzene   | 119    |  | "         | 100            |                  | 119      | 80-120         |      |              |       |

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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#### Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

01/11/05 10:08

#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

| Analyte                             | Result | Reporting<br>Limit Un | Spi<br>its Le |             | ource<br>esult | %REC             | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|-------------------------------------|--------|-----------------------|---------------|-------------|----------------|------------------|----------------|-------|--------------|-------|
| Batch EA51003 - EPA 5030C (GC)      |        |                       | Analy         | st: c       | dk             |                  |                |       |              |       |
| Calibration Check (EA51003-CCV1)    |        |                       | Prepa         | red: 01/06/ | /05 Anz        | alyzed: 01       | /09/05         |       |              |       |
| Benzene                             | 99.9   | ug/                   | kg 10         | 0           |                | 99.9             | 80-120         |       |              |       |
| Toluene                             | 104    | 11                    | 10            | 0           |                | 104              | 80-120         |       |              |       |
| Ethylbenzene                        | 99.4   |                       | 10            | 0           |                | <del>99</del> .4 | 80-120         |       |              |       |
| Xylene (p/m)                        | 215    |                       | 20            | 0           |                | 108              | 80-120         |       |              |       |
| Xylene (o)                          | 101    |                       | 10            | 0           |                | 101              | 80-120         |       |              |       |
| Surrogate: a, a, a-Trifluorotoluene | 117    | •                     | 10            | 0           |                | 117              | 80-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene     | 115    | ,                     | 10            | ю           |                | 115              | 80-120         |       |              |       |
| Matrix Spike (EA51003-MS1)          | Sou    | rce: 5A05015-08       | Prepa         | red: 01/06/ | /05 Ana        | alyzed: 01       | /09/05         |       |              |       |
| Benzene                             | 101    | ug/                   | kg 10         | 0 N         | ٧D             | 101              | 80-120         |       |              |       |
| Toluene                             | 106    |                       | 10            | 0 N         | ۵۲<br>D        | 106              | 80-120         |       |              |       |
| Ethylbenzene                        | 106    | 80                    | 10            | 0 N         | 1D             | 106              | 80-120         |       |              |       |
| Xylene (p/m)                        | 232    | н                     | 20            | 4 O         | ١D             | 116              | 80-120         |       |              |       |
| Xylene (o)                          | 105    |                       | 10            | 0 1         | 1Đ             | 105              | 80-120         |       |              |       |
| Surrogate: a,a,a-Trifluorotoluene   | 115    |                       | 10            | ю           |                | 115              | 80-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene     | 110    | 'n                    | 10            | 0           |                | 110              | 80-120         |       |              |       |
| Matrix Spike Dup (EA51003-MSD1)     | Sou    | rce: 5A05015-08       | Ртера         | red: 01/06/ | /05 Ana        | alyzed: 01       | /09/05         |       |              |       |
| Benzene                             | 99.0   | ug/                   | kg 10         | 0 N         | 1D             | 99.0             | 80-120         | 2.00  | 20           |       |
| Toluene                             | 104    | ••                    | 10            | 0 N         | 1D             | 104              | 80-120         | 1.90  | 20           |       |
| Ethylbenzene                        | 107    | 19                    | 10            | 0 N         | 1D             | 107              | 80-120         | 0.939 | 20           |       |
| Xylene (p/m)                        | 236    | 10                    | 20            | 0 N         | 1D             | 118              | 80-120         | 1.71  | 20           |       |
| Xylene (o)                          | 110    | **                    | 10            | 0 N         | 1D             | 110              | 80-120         | 4.65  | 20           |       |
| Surrogate: a,a,a-Trifluorotoluene   | 115    | h                     | 10            | ю           |                | 115              | 80-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene     | 119    | 4                     | 10            | 0           |                | 119              | 80-120         |       |              |       |

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Basin Environmental Services P.O. Box 301 Lovington NM, 88260

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

| Analyte                                    | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC         | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|--|--------|--------------------|-------|----------------|------------------|--------------|----------------|------|--------------|-------|
| Batch EA50511 - General Preparation (Prep) |        |                    |       | Analyst:       | LC               |              |                |      |              |       |
| Blank (EA50511-BLK1)                       |        |                    |       | Prepared: 0    | )1/05/05 A       | Analyzed: 01 | /06/05         |      |              |       |
| % Moisture                                 | 0.001  |                    | %     |                |                  |              |                |      |              |       |
| Duplicate (EA50511-DUP1)                   | Sour   | rce: 5A04009-      | 01    | Prepared: 0    | 01/05/05 A       | Analyzed: 01 | /06/05         |      |              |       |
| % Moisture                                 | 8.9    |                    | %     |                | 8.4              |              |                | 5.78 | 20           |       |

Environmental Lab of Texas

| P.O. Box     | vironmental Services<br>301<br>n NM, 88260                   | Project Number:                         | Project: Lea to Dublin 8 inch<br>Project Number: EMS #2004-00223<br>Project Manager: Kcn Dutton |              |  |  |  |  |  |
|--------------|--|---|---|--------------|--|--|--|--|--|
|              |  | Notes and De                            |   |              |  |  |  |  |  |
| <b>S-</b> 06 | The recovery of this surrogate is out matrix interference's. | side control limits due to sample di    | ution required from high analyte concentr   | ation and/or |  |  |  |  |  |
| 5-04         | The surrogate recovery for this same                         | ple is outside of established control   | limits due to a sample matrix effect.   |              |  |  |  |  |  |
| F            | Detected but below the Reporting L                           | imit; therefore, result is an estimated | d concentration (CLP J-Flag).   |              |  |  |  |  |  |
| DET          | Analyte DETECTED   |   |   |              |  |  |  |  |  |
| ND           | Analyte NOT DETECTED at or above t                           | he reporting limit                      |   |              |  |  |  |  |  |
| NR           | Not Reported   |   |   |              |  |  |  |  |  |
| iry          | Sample results reported on a dry weight                      | basis                                   |   |              |  |  |  |  |  |
| RPD          | Relative Percent Difference                                  |   |   |              |  |  |  |  |  |
| LCS          | Laboratory Control Spike                                     |   |   |              |  |  |  |  |  |
| MS           | Matrix Spike   |   |   |              |  |  |  |  |  |
| Dup          | Duplicate  |   |   |              |  |  |  |  |  |

Report Approved By:

Raland K hout

1/11/05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

Date:

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Environmental Lab of Texas

| 12600 West i-20 Ess<br>Ddessa, Texas 7976 |   |               |                 |                     |          |                  |          |                    |                  | (        | CHAI             | n of      | CU         | stol                    | dy Ri                               | ecor             | D A       | ND /         | WAL                     | .ysis | REQI      | JEST       |          |                        |
|---|---|---------------|-----------------|---------------------|----------|------------------|----------|--------------------|------------------|----------|------------------|-----------|------------|-------------------------|-------------------------------------|------------------|-----------|--------------|-------------------------|-------|-----------|------------|----------|------------------------|
| Project Ma                                | anager: <u>KEN DUTTON</u>               | /             |                 |                     |          |                  |          |                    |                  |          |                  | Pro       | yøct       | Nan                     | ne:                                 | LE,              | <u>4</u>  |              | <u>7</u> c              | )     | <u>Du</u> | BLI        | TN       | ,<br>                  |
| Company                                   | Name BASIN ENV                          | SVC.          |                 |                     |          |                  |          |                    |                  | ,,       |                  |           | Pr         | ojeci                   | #:                                  | EM               | 15        | مسب          | 20                      | 6\$   | 4-        | ø¢         | 52       | 2                      |
| Company Au                                | ddress: P.O. BOX 361                    |               |                 |                     |          |                  |          |                    |                  |          |                  | P         | roje       | ct Lo                   | <u>.</u> :عد                        | LE               | A         | C            | 04                      | w)    | - 4       | NI         | *-1      |                        |
|   | aterZip: LOVINGTON NM 8                 | 18260         | 18 <sup>1</sup> |                     |          |                  |          |                    |                  |          |                  |           |            |                         |                                     |                  |           |              |                         |       | -         |            |          |                        |
|   | one No: (505), 441-2124                 |               | Fax No:         | 6                   | 6        | $\overline{(7)}$ | 396      | -1                 | 42               | 9        |                  |           |            |                         |                                     |                  |           |              |                         |       |           |            |          |                        |
|   | (V) Sand                                |               |                 | <u>ی</u> د.         | <u> </u> |                  |          |                    |                  |          |                  |           |            |                         |                                     |                  |           |              |                         |       |           |            |          |                        |
| Sampler Sig                               | nature. <u>A CA () Hun</u>              | <u></u>       | ,               |                     |          |                  |          | - <del>1-4-4</del> | ALL              |          |                  |           |            |                         | *****                               |                  | An        | alyz         | e For                   |       | ,         | ********** |          |                        |
|   |   |               |                 |                     |          |                  |          |                    |                  |          |                  |           | -          |                         | TCLI<br>TOTA                        |                  |           |              | $\overline{\mathbf{X}}$ |       |           |            |          |                        |
|   | د.<br>                                  | <u>1</u>      | 1               | T E                 | Γ.       | P                | reserval | ive                |                  |          | Matri            | K<br>T    | 1005       |                         | _                                   | a Se             |           |              | 260                     |       |           |            |          | ā                      |
|   |   | 2\$\$5        |                 | 4085                |          |                  |          |                    |                  |          |                  |           | 900        | 0                       | COB, HCO3)                          | Cd Cr Pb Hg !    |           |              | or BTEX 8260            |       |           |            |          | RUSH TAT (Pre-Schedule |
| 14  |   | R             | 8               | 1                   |          |                  |          | l                  |                  |          |                  |           | BOTSN)     | Cations (Ca. Mg. Na, M) | 8                                   | a Ca C           |           | ,            | នុំក                    |       |           |            |          | Š-Đ                    |
| .50                                       |   | ampie         | ample           | Containers          |          |                  |          | Į                  | pecity           |          |                  | 1<br>Sige |            | Ĩ.<br>ĕ                 | S S                                 | s Ag Ba          |           | E S          | 18/50                   |       |           |            |          | AT (F                  |
| 5A05014                                   |   | Date Sampled  | Time Sampled    | No. of C            |          | HNO,             | NeOH     | g                  | Other ( Specify) | fer      | Studge<br>Studge | Other (ap | TPH: 418.1 | ) suoj                  | Antons (Ci, SO4,<br>cap I cap I CEC | als: A           | Volatiles | Semivolatiea | BTEX B0218/5030         | KORM. |           |            |          | L HS                   |
| AB # (lab use only)                       | FIELD CODE                              |               |                 | Ž                   | 1-1      | Ê                | ¥ Ž      | £ 12               | ð                | \$       | # 8              | 8         | Ē          | 3                       | ž i                                 | 2                | Х<br>Х    | \$           |                         | Įŝ    | ┢╍┟       | +          |          | 5                      |
|   | SOUTH EXC SW                            | \$3 JAN       |                 | ++                  | Ă        | ┝╍┼              |          |                    |                  | ┝─┼      | - ^              | 4         | <b>I</b> X |                         | +                                   | +                |           | -+           | 쓔                       | +-    | ┢┼╋       | +          |          |                        |
| -02<br>-03                                | SOUTH EXC FLOUR                         |               | 0900<br>091.5   | ╋╋                  | ┟┼┤      | ┝╍╉              | ┽┼       | -                  | +                | ┝╍┾      | ╶┟┤              | +         | H          |                         |                                     | +                |           | ┯╋           | ╋                       | ┿     | ┢┼┼       | + +        | $\vdash$ |                        |
|   | MIDDLE FLOOR EAST<br>MIDDLE FLOOR SOUTH | +             | 0925            | +                   |          | ┝─╊              |          | ╈                  | +                | $\vdash$ |                  | ┿         | H          |                         | -                                   | +                |           | -+           | $^{++}$                 | +     | $\vdash$  | ╋          | 1        |                        |
|   | MIDDLE FLOOR NORTH                      |               | 6918            | $\uparrow \uparrow$ |          |                  | ++       | +                  |                  |          |                  |           |            |                         | +                                   |                  |           |              | Ħ                       | 1     |           |            |          | ٦                      |
| 1   | NORTH EXC FLOOR                         |               | 0910            |                     |          |                  |          | $\uparrow$         |                  |          |                  | T         | Π          |                         | T                                   |                  |           |              | T                       | T     | IT        |            |          |                        |
|   | NORTH EXC SISW                          |               | 0945            | Π                   |          |                  |          |                    |                  |          |                  |           |            |                         |                                     |                  |           |              | $\prod$                 |       |           |            |          |                        |
|   | NORTH EXC. N/SW                         |               | \$955           |                     |          |                  |          |                    |                  |          |                  |           |            |                         |                                     |                  |           |              |                         |       |           |            |          |                        |
|   | NORTH P/L FLOOR                         |               | 1008            | ЦĻ                  |          |                  |          |                    |                  |          |                  |           | Ш          |                         |                                     |                  |           | $\downarrow$ | Ц.                      |       |           |            |          |                        |
| -10                                       | NORTH PLL NISW                          |               | 1020            |                     | ¥        |                  |          |                    |                  |          |                  |           |            |                         |                                     | Ţ                | Ļ         |              |                         | Ţ     | Ц         |            | Ļ        | _                      |
| ecial instructions:                       |   |               |                 |                     |          | •                |          |                    |                  |          |                  |           |            |                         | Temp                                | le Cor<br>eratur | e Up      | oon F        | Recei                   | ipt:  | C         |            | N        |                        |
| linguished by:                            | Date Time                               | Received by   |                 |                     |          |                  |          |                    | T                | Dat      | 8                | <b>T</b>  | Time       |                         | aboi                                | atory            | Cor       | mmq          | ints:                   |       |           | 1,5        | С.       |                        |
| 1)  | and a li                                | 1750          | C.F.            |                     | 2        |                  |          |                    | 11               | slo      |                  |           | :24        |                         |                                     |                  |           |              |                         |       |           |            |          |                        |
| induished by                              | 1000 05/0005 0820<br>Data Time          | Received by B | OT: UN          | 1                   | <u></u>  |                  |          | ~~~~~              | +#               | Det      |                  |           | Time       |                         |                                     |                  |           |              |                         |       |           |            |          |                        |
|   |   | 1 F           |                 |                     |          |                  |          |                    | 1                |          |                  | 1         |            | 1                       |                                     |                  |           |              |                         |       |           |            |          |                        |

| Odessa, Texas 797                      |                                       | Fax: 432        |                     |                                       |            |                         |              |          |          |                     |                    |     |         |                  |            |           |                         |                 |                                     |          |                        | 1               |           |                    |        | 0      |
|--|---------------------------------------|-----------------|---------------------|---------------------------------------|------------|-------------------------|--------------|----------|----------|---------------------|--------------------|-----|---------|------------------|------------|-----------|-------------------------|-----------------|-------------------------------------|----------|------------------------|-----------------|-----------|--------------------|--------|--------|
| Project I                              | Manager: <u>KE</u>                    | V DKT           | ON                  |                                       | ·          |                         |              |          | <u></u>  |                     |                    |     |         | -                | P          |           |                         |                 |                                     |          |                        |                 |           |                    | N      |        |
| Compa                                  | ny Name <u>BA</u>                     | SIN E           | <u>wr s</u>         | YC_                                   |            | <del>,</del>            |              |          |          |                     |                    |     |         | -                |            |           |                         |                 |                                     |          |                        |                 | -         |                    | 62:    |        |
| Company                                | Address: <u>PC</u>                    | Box:            | 3.01:               |                                       |            |                         |              |          | ****     | · · · · · · · · · · |                    |     | <b></b> | -                |            | Proj      | ect L                   | oc:             | 26                                  | A        | l                      | 2 <u>04</u>     | <u>wī</u> | <u></u>            | N      | M      |
| City/S                                 | itale/Zip: <u>/01/7</u>               | NGTON           | NRO                 | 8826                                  | <b>I</b> ø | >                       |              |          |          |                     |                    |     |         | _                |            |           | PC                      | )#:_            | 1                                   | PA       | 7.A                    | 7               |           |                    |        |        |
| Telepi                                 | none No: 55                           | 5) NN1-         | 2114                | /                                     |            | Fax No:                 | 6            | ø.5      | -) 5     | 91                  | á                  | 14  | 12      | 7                |            |           |                         |                 |                                     |          |                        |                 |           |                    |        |        |
|  |                                       | , b)            | alton of the second |                                       |            |                         | ·            | /        | <i>f</i> | X                   |                    |     |         | ſ                |            |           |                         |                 |                                     |          |                        |                 |           |                    |        |        |
| Sampler Si                             | grature:                              | al all          | un .                |                                       |            |                         | <u> </u>     |          |          |                     |                    |     | ···· ·· | -                |            |           |                         |                 |                                     | A        | nəlyz                  | e For           |           |                    |        |        |
|  |                                       |                 |                     |                                       |            |                         | 5            |          |          |                     |                    |     |         |                  |            | -         |                         | TCI<br>TOT/     |                                     | ╋        | $\left  \cdot \right $ | X               |           |                    |        |        |
| ····                                   | · · · · · · · · · · · · · · · · · · · |                 |                     | T                                     | ·····      | F                       | 100          |          | Pn       | eserv               | ative              | T   |         | Mat              | lıtix      | - 19      |                         |                 |                                     | 5        |                        | 380             |           |                    |        |        |
|  |                                       |                 |                     | 200                                   | ø5         |                         | tors         |          |          |                     |                    |     |         |                  |            | 100       |                         | SO4, CO3, HCO3) | / 050<br>Ar 8= 74 7- 0h Hn 9a       |          |                        | or BTEX 9260    |           |                    |        |        |
| SADSOIN                                |                                       |                 | •                   |                                       |            | 8                       | Sian         |          |          |                     |                    |     |         |                  |            |           | Cations (Ca. Mg. Na. K) | ŝ               |                                     |          |                        | 8               |           |                    |        |        |
| 05                                     |                                       |                 |                     | mple                                  |            | ample                   | of Container |          |          |                     |                    |     |         |                  | 1          |           |                         | 504             |                                     |          | 3                      | 18/30           |           |                    |        |        |
| 50                                     |                                       |                 |                     | Date Sampled                          |            | Time Sampled            | of C         |          | ٥,       | Ð                   | H <sub>5</sub> S0. | 8   |         | Sludge           | Sol        | TPH: 418. | ions (C                 | Anions (Cl.     | SAR / ESP / GEC<br>Metale: At Ar Be | Volaties | Serrivolat             | 88              | N.O.R.M.  |                    |        |        |
| LAB # (lab use only)                   |                                       | FIELD CODE      |                     |                                       |            |                         | ů.<br>Ž      | <u>8</u> | ¥ ¥      | 2                   | Ť                  | 28  | 3 3     | 3                | 38         | <u>a</u>  | 3                       | ž               | 8 3                                 | ĮŽ       | 8                      | Ĕ,              | 길을        | $\left  - \right $ |        | +      |
| ~11                                    |                                       | <u> </u>        | <u> </u>            | \$30                                  | AN         |                         | 4            | XI.      |          | +                   | ┼╌┼                | ╾┾╸ | +-      | ┝╌┤              | <b>А</b> - | ₩         |                         |                 | _                                   |          |                        | 升               | +-        | ╄╌┥                | ┝╼╍╋╼╸ | +      |
| 72                                     |                                       | FLOOR           |                     | ┟╌╌┟╴                                 |            | 1005                    | H            | ╟┼┼      | -+-      | +                   | ┠╌┼                |     |         | ┝╌┨              | ┿╋╴        | ╫         | +                       |                 | +-                                  | +        | $\left  - \right $     | ┿╋              |           | +                  |        | +      |
| -13                                    | STOCKPI                               |                 |                     | + + - + - + - + - + - + - + - + - + - |            | Ø83Ø                    | ╂╉╌┤         | ┝┼┼      |          | +                   | ┠╌┼                | -   | ╋       | ┼╌┨              | ┿╋╴        | ╫         | +-                      |                 | +                                   | +        | $\left  - \right $     | ╀╋              | +         | ┝─┤                |        | ┿┩     |
| <u>-14</u><br>*IS                      | STOCK PI<br>STOCKPEL                  |                 |                     | ┢──┼─                                 |            | <u>\$84\$</u><br>\$82\$ | ┢┼╼┤         | ┟┼┼      | +        | ╋                   | ┝╌┼                | +   |         | $\left  \right $ | ╉╋╴        | #         | ┢─┨                     |                 | -                                   |          | ┝─┤                    | ++              | +         | ┼╌┤                |        | +      |
| -16                                    | F                                     |                 |                     |                                       |            | 0185P                   |              | 廿        | -        | -                   | ┝─╀                | +   | ╉       | H                |            | 廿         | +                       | +               | +                                   | +        | H                      | $\mathbb{H}$    | -         | +                  |        |        |
| <u></u> [\ <u>y</u>                    | pr marte                              |                 |                     |                                       |            | QIQ -F                  |              |          | -        | +                   |                    | 1   | 1       | Ħ                | ╇╌┼╌       | Ť         |                         | -†              | -                                   | 1        |                        | *               | 1         | $\mathbf{H}$       |        |        |
|  |                                       |                 | ·                   |                                       |            |                         |              |          |          |                     |                    |     |         |                  |            | Ι         |                         |                 |                                     | 1        |                        | Τ               | Τ         | $\Box$             | T      | $\Box$ |
|  |                                       |                 |                     |                                       |            |                         |              |          | _        |                     |                    |     |         |                  |            |           |                         |                 |                                     |          |                        |                 |           |                    |        |        |
| •••••••••••••••••••••••••••••••••••••• | <u> </u>                              |                 |                     | L                                     |            |                         |              |          |          |                     |                    |     |         |                  |            | L         | Ц                       |                 | L                                   | L        |                        |                 |           |                    |        | Ш      |
| Special Instructions:                  |                                       |                 |                     |                                       |            |                         |              |          |          |                     |                    |     |         |                  |            |           |                         | Temj            | perat                               | ure U    | pon l                  | intact<br>Recei | ipt:      |                    | Ď      | N.,.   |
| Rejinquished by                        | ~                                     | Date            | Time                | Received                              | by         |                         | <u> </u>     |          |          |                     |                    |     | Di      | ite              |            | Tim       |                         | Labo            | rato                                | ry Ca    | mme                    | ents:           |           |                    | -1.5   | C      |
| 5-1-7                                  | N. Eller                              |                 |                     | 1×                                    | <          | A                       | L            | 2        |          |                     |                    |     | 1       | 1                |            | 8:2       |                         |                 |                                     |          |                        |                 |           |                    |        |        |
| telinguished by                        |                                       | 85 AN Ø<br>Date | Time                | Received                              | by EL      |                         | W            |          |          |                     | ~~~~~~             | ᠇ᡟ  | 15      | 10 :-<br>ate     | 2          | Tim       |                         |                 |                                     |          |                        |                 |           |                    |        |        |
|  | the                                   | iklan           | 13125               |                                       | ~          | e m                     | 1.00         | <b>^</b> |          |                     |                    | ľ   | 1-5-    | - F              | 1.         | 32        | _                       |                 |                                     |          |                        |                 |           |                    |        |        |

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

| Client | Basin Erv | . Svc- |  |
|--------|-----------|--------|--|
|        |           |        |  |

Date/Time: 01-05-05@ 1325

JMM

Order #: 54 050 14

Initials:

## Sample Receipt Checklist

| Temperature of container/cooler?                          | (Yes) | No | -15 C          |
|---|-------|----|----------------|
| Shipping container/cooler in good condition?              | Yes   | No |                |
| Custody Seals intact on shipping container/cooler?        | Yes   | No | Not present    |
| Custody Seals intact on sample bottles?                   | Yes   | No | Not present    |
| Chain of custody present?                                 | Yes   | No |                |
| Sample Instructions complete on Chain of Custody?         | (Res) | No |                |
| Chain of Custody signed when relinquished and received?   | (Tes) | No |                |
| Chain of custody agrees with sample label(s)              | Tes   | No |                |
| Container labels legible and intact?                      | Res   | No |                |
| Sample Matrix and properties same as on chain of custody? | Reel  | No |                |
| Samples in proper container/bottle?                       | 8es)  | No |                |
| Samples properly preserved?                               | Res   | No |                |
| Sample bottles intact?                                    | (Tes) | No |                |
| Preservations documented on Chain of Custody?             | Yes   | No |                |
| Containers documented on Chain of Custody?                | (Tes) | No |                |
| Sufficient sample amount for indicated test?              | Cres  | No |                |
| All samples received within sufficient hold time?         | (res- | No |                |
| VOC samples have zero headspace?                          | (Yes) | No | Not Applicable |

Other observations:

#### Variance Documentation:

.

| Contact Person:<br>Regarding: | Date/Time: | Contacted by:                         |  |
|-------------------------------|------------|---------------------------------------|--|
|                               | ********   |                                       |  |
| Corrective Action Taken:      |            |                                       |  |
|                               |            |                                       |  |
|                               | <b></b>    |                                       |  |
|                               |            |                                       |  |
| ********                      |            | · · · · · · · · · · · · · · · · · · · |  |



# **Analytical Report**

## Prepared for:

Camille Reynolds Plains All American EH & S 1301 S. County Road 1150 Midland, TX 79706-4476

Project: Lea to Dublin 8 inch Project Number: 2004-00223 Location: Lea County, NM

Lab Order Number: 5A18004

Report Date: 01/19/05

| Plains All American EH & S | Project:         | Lea to Dublin 8 inch | Fax: (432) 687-4914 |
|----------------------------|------------------|----------------------|---------------------|
| 1301 S. County Road 1150   | Project Number:  | 2004-00223           | Reported:           |
| Midland TX, 79706-4476     | Project Manager: | Camille Reynolds     | 01/19/05 17:00      |

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID            | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|----------------------|---------------|--------|----------------|----------------|
| North P/L Floor, 15' | 5A18004-01    | Soil   | 01/14/05 13:05 | 01/18/05 10:00 |

| Plains All American EH & S | Project: Lea to Dublin 8 inch     | Fax: (432) 687-4914 |
|----------------------------|-----------------------------------|---------------------|
| 1301 S. County Road 1150   | Project Number: 2004-00223        | Reported:           |
| Midland TX, 79706-4476     | Project Manager: Camille Reynolds | 01/19/05 17:00      |

#### Organics by GC

#### **Environmental Lab of Texas**

| Analyte                                | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| North P/L Floor, 15' (5A18004-01) Soil |        |                    |           |          |         |          |          |           |       |
| Benzene                                | ND     | 0.0250             | mg/kg dry | 25       | EA51806 | 01/18/05 | 01/19/05 | EPA 8021B |       |
| Toluene                                | ND     | 0.0250             |           | "        |         |          | "        | •         |       |
| Ethylbenzene                           | ND     | 0.0250             |           | "        |         |          | "        |           |       |
| Xylene (p/m)                           | ND     | 0.0250             | *         | "        | "       | "        | "        | •         |       |
| Xylene (o)                             | ND     | 0.0250             | *         |          | "       | "        | "        |           |       |
| Surrogate: a,a,a-Trifluorotoluene      |        | 115 %              | 80-1      | 20       | "       | "        | H        | "         |       |
| Surrogate: 4-Bromofluorobenzene        |        | 116 %              | 80-1      | 20       | "       | ~        | "        | R         |       |
| Gasoline Range Organics C6-C12         | ND     | 10.0               | mg/kg dry | 1        | EA51808 | 01/18/05 | 01/18/05 | EPA 8015M |       |
| Diesel Range Organics >C12-C35         | 112    | 10.0               |           | .,       | "       | "        |          | "         |       |
| Total Hydrocarbon C6-C35               | 112    | 10.0               | "         | н        | 19      | н        | "        |           |       |
| Surrogate: 1-Chlorooctane              |        | 98.8 %             | 70-1      | 30       | "       | #        | "        | 53        |       |
| Surrogate: 1-Chlorooctadecane          |        | 109 %              | 70-1      | 30       | N       | "        | "        | "         |       |

Environmental Lab of Texas

| Plains All American EH & S | Project: Lea to Dublin 8 inch     | Fax: (432) 687-4914 |
|----------------------------|-----------------------------------|---------------------|
| 1301 S. County Road 1150   | Project Number: 2004-00223        | Reported:           |
| Midland TX, 79706-4476     | Project Manager: Camille Reynolds | 01/19/05 17:00      |

#### General Chemistry Parameters by EPA / Standard Methods

#### Environmental Lab of Texas

| Analyte                           | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| North P/L Floor, 15' (5A18004-01) | Soil   |                    |       |          |         |          |          |               |       |
| % Moisture                        | 3.7    |                    | %     | 1        | EA51807 | 01/18/05 | 01/19/05 | % calculation |       |

Environmental Lab of Texas

| Plains All American EH & S | Project: Lea to Dublin 8 inch     | Fax: (432) 687-4914 |
|----------------------------|-----------------------------------|---------------------|
| 1301 S. County Road 1150   | Project Number: 2004-00223        | Reported:           |
| Midland TX, 79706-4476     | Project Manager: Camille Reynolds | 01/19/05 17:00      |

#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

| Analyte                             | Result | Reporting<br>Limit | Units      | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD      | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|------------|----------------|------------------|----------|----------------|----------|--------------|-------|
| Batch EA51806 - EPA 5030C (GC)      |        |                    |            |                |                  |          |                |          |              |       |
| Blank (EA51806-BLK1)                |        |                    |            | Prepared &     | Analyzed:        | 01/17/05 |                |          |              |       |
| Benzene                             | ND     | 0.0250             | mg/kg wet  |                |                  |          |                |          |              |       |
| Toluene                             | ND     | 0.0250             |            |                |                  |          |                |          |              |       |
| Ethylbenzene                        | ND     | 0.0250             | *          |                |                  |          |                |          |              |       |
| Xylene (p/m)                        | ND     | 0.0250             |            |                |                  |          |                |          |              |       |
| Xylene (o)                          | ND     | 0.0250             | u          |                |                  |          |                |          |              |       |
| Surrogate: a,a,a-Trifluorotoluene   | 112    | · · · · ·          | ug/kg      | 100            | •                | 112      | 80-120         |          |              |       |
| Surrogate: 4-Bromofluorobenzene     | 113    |                    | "          | 100            |                  | 113      | 80-120         |          |              |       |
| LCS (EA51806-BS1)                   |        |                    |            | Prepared &     | Analyzed:        | 01/17/05 |                |          |              |       |
| Benzene                             | 108    |                    | ug/kg      | 100            |                  | 108      | 80-120         | <u> </u> | <u> </u>     |       |
| Toluene                             | 106    |                    | 11         | 100            |                  | 106      | 80-120         |          |              |       |
| Ethylbenzene                        | 101    |                    | "          | 100            |                  | 101      | 80-120         |          |              |       |
| Kylene (p/m)                        | 220    |                    |            | 200            |                  | 110      | 80-120         |          |              |       |
| Xylene (o)                          | 103    |                    | **         | 100            |                  | 103      | 80-120         |          |              |       |
| Surrogate: a, a, a-Trifluorotoluene | 119    |                    | "          | 100            |                  | 119      | 80-120         |          |              |       |
| Surrogate: 4-Bromofluorobenzene     | 118    |                    | "          | 100            |                  | 118      | 80-120         |          |              |       |
| Calibration Check (EA51806-CCV1)    |        |                    |            | Prepared &     | Analyzed:        | 01/17/05 |                |          |              |       |
| Benzene                             | 106    |                    | ug/kg      | 100            |                  | 106      | 80-120         |          |              |       |
| Toluene                             | 105    |                    |            | 100            |                  | 105      | 80-120         |          |              |       |
| Ethylbenzene                        | 102    |                    |            | 100            |                  | 102      | 80-120         |          |              |       |
| Xylene (p/m)                        | 217    |                    | "          | 200            |                  | 108      | 80-120         |          |              |       |
| Xylene (o)                          | 103    |                    | n          | 100            |                  | 103      | 80-120         |          |              |       |
| Surrogate: a,a,a-Trifluorotoluene   | 116    |                    | "          | 100            |                  | 116      | 80-120         |          |              |       |
| Surrogate: 4-Bromofluorobenzene     | 117    |                    | "          | 100            |                  | 117      | 80-120         |          |              |       |
| Matrix Spike (EA51806-MS1)          | Sou    | rce: 5A14015       | -06        | Prepared &     | Analyzed:        | 01/17/05 |                |          |              |       |
| Benzene                             | 111    | • • • •            | ug/kg      | 100            | ND               | 111      | 80-120         |          |              |       |
| Toluene                             | 112    |                    | <b>F</b> 4 | 100            | ND               | 112      | 80-120         |          |              |       |
| Ethylbenzene                        | 108    |                    | "          | 100            | ND               | 108      | 80-120         |          |              |       |
| Xylene (p/m)                        | 233    |                    |            | 200            | ND               | 116      | 80-120         |          |              |       |
| Xylene (o)                          | 106    |                    |            | 100            | ND               | 106      | 80-120         |          |              |       |
| Surrogate: a,a,a-Trifluorotoluene   | 113    |                    | "          | 100            |                  | 113      | 80-120         |          |              |       |
| Surrogate: 4-Bromofluorobenzene     | 116    |                    | n          | 100            |                  | 116      | 80-120         |          |              |       |

| Plains All American EH & S             |        | 1                  | Project: Lea | a to Dublin 8  | inch             |             |                |      | Fax: (432)                            | 687-491                                |
|--|--------|--------------------|--------------|----------------|------------------|-------------|----------------|------|---------------------------------------|--|
| 1301 S. County Road 1150               |        | Project N          | umber: 200   | 4-00223        |                  |             |                |      | Repo                                  | rted:                                  |
| Midland TX, 79706-4476                 |        |                    |              | nille Reynol   | ds               |             |                |      | 01/19/0                               | 5 17:00                                |
|  | 0      | rganics by         | y GC - Q     | uality Co      | ontrol           |             |                |      |                                       |  |
|  |        | Environ            | mental L     | ab of Te       | kas              |             |                |      |                                       |  |
| Analyte                                | Result | Reporting<br>Limit | Units        | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD  | RPD<br>Limit                          | Notes                                  |
| Batch EA51806 - EPA 5030C (GC)         |        |                    |              |                |                  | ·           |                |      | ·                                     |  |
| Matrix Spike Dup (EA51806-MSD1)        | Sou    | irce: 5A1401:      | 5-06         | Prepared &     | Analyzed:        | 01/17/05    |                |      |                                       |  |
| Benzene                                | 109    |                    | ug/kg        | 100            | ND               | 109         | 80-120         | 1.82 | 20                                    |  |
| Foluene                                | 110    |                    | 11           | 100            | ND               | 110         | 80-120         | 1.80 | 20                                    |  |
| Ethylbenzene                           | 112    |                    | "            | 100            | ND               | 112         | 80-120         | 3.64 | 20                                    |  |
| Kylene (p/m)                           | 233    |                    |              | 200            | ND               | 116         | 80-120         | 0.00 | 20                                    |  |
| Xylene (o)                             | 112    |                    | п            | 100            | ND               | 112         | 80-120         | 5.50 | 20                                    |  |
| Surrogate: a,a,a-Trifluorotoluene      | 116    |                    | H            | 100            |                  | 116         | 80-120         |      |                                       |  |
| urrogate: 4-Bromofluorobenzene         | 114    |                    | "            | 100            |                  | 114         | 80-120         |      |                                       |  |
| Batch EA51808 - Solvent Extraction (GC | )      |                    |              |                |                  |             |                |      |                                       |  |
| Blank (EA51808-BLK1)                   |        |                    |              | Prepared &     | Analyzed:        | 01/18/05    |                |      |                                       |  |
| Fasoline Range Organics C6-C12         | ND     | 10.0               | mg/kg wet    |                |                  |             |                |      |                                       |  |
| Diesel Range Organics >C12-C35         | ND     | 10.0               | "            |                |                  |             |                |      |                                       |  |
| Total Hydrocarbon C6-C35               | ND     | 10.0               | "            |                |                  |             |                |      |                                       |  |
| Surrogate: 1-Chlorooctane              | 37.4   |                    | mg/kg        | 50.0           |                  | 74.8        | 70-130         |      |                                       | ************************************** |
| Surrogate: 1-Chlorooctadecane          | 37.0   |                    | a            | 50.0           |                  | 74.0        | 70-130         |      |                                       |  |
| Blank (EA51808-BLK2)                   |        |                    |              | Prepared: (    | )1/18/05 A       | nalyzed: 01 | /19/05         |      |                                       |  |
| Fasoline Range Organics C6-C12         | ND     | 10.0               | mg/kg wet    |                |                  |             |                |      |                                       |  |
| Diesel Range Organics >C12-C35         | ND     | 10.0               | *            |                |                  |             |                |      |                                       |  |
| Total Hydrocarbon C6-C35               | ND     | 10.0               | u            |                |                  |             |                |      |                                       |  |
| urrogate: 1-Chlorooctane               | 41.6   |                    | mg/kg        | 50.0           |                  | 83.2        | 70-130         |      | · · · · · · · · · · · · · · · · · · · |  |
| lurrogate: 1-Chlorooctadecane          | 37.1   |                    | "            | 50.0           |                  | 74.2        | 70-130         |      |                                       |  |
| LCS (EA51808-BS1)                      |        |                    |              | Prepared &     | Analyzed:        | 01/18/05    |                |      |                                       |  |
| Fasoline Range Organics C6-C12         | 441    | 10.0               | mg/kg wet    | 500            |                  | 88.2        | 75-125         |      |                                       |  |
| Diesel Range Organics >C12-C35         | 470    | 10.0               | ۳            | 500            |                  | 94.0        | 75-125         |      |                                       |  |
| Total Hydrocarbon C6-C35               | 911    | 10.0               |              | 1000           |                  | 91.1        | 75-125         |      |                                       |  |
| urrogate: 1-Chlorooctane               | 41.2   |                    | mg/kg        | 50.0           |                  | 82.4        | 70-130         |      |                                       |  |
| an ingenet                             |        |                    | "            |                |                  |             |                |      |                                       |  |

| Plains All American EH & S              |        |                    | -           | a to Dublin 8  | inch             |             |                |                   | Fax: (432)   | 687-491 |
|---|--------|--------------------|-------------|----------------|------------------|-------------|----------------|-------------------|--------------|---------|
| 1301 S. County Road 1150                |        |                    | umber: 200  |                |                  |             |                |                   | Repo         | rted:   |
| Midland TX, 79706-4476                  |        | Project Ma         | anager: Can | mille Reynol   | lds              |             |                |                   | 01/19/0      | 5 17:00 |
|   | O      | rganics by         | GC - Q      | uality C       | ontrol           |             |                |                   |              |         |
|   |        | Environ            | nental L    | ab of Te       | xas              |             |                |                   |              |         |
| Analyte                                 | Result | Reporting<br>Limit | Units       | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD               | RPD<br>Limit | Notes   |
| Batch EA51808 - Solvent Extraction (GC) |        |                    |             |                |                  |             |                |                   |              |         |
| LCS (EA51808-BS2)                       |        |                    |             | Prepared:      | 01/18/05 A       | nalyzed: 01 | /19/05         |                   |              |         |
| Gasoline Range Organics C6-C12          | 491    | 10.0               | mg/kg wet   | 500            |                  | 98.2        | 75-125         | · · · · · · · · · |              |         |
| Diesel Range Organics >C12-C35          | 504    | 10.0               |             | 500            |                  | 101         | 75-125         |                   |              |         |
| Total Hydrocarbon C6-C35                | 995    | 10.0               |             | 1000           |                  | 99.5        | 75-125         |                   |              |         |
| Surrogate: 1-Chlorooctane               | 50.6   |                    | mg/kg       | 50.0           | ··· · · ·        | 101         | 70-130         |                   |              |         |
| Surrogate: 1-Chlorooctadecane           | 43.7   |                    | "           | 50.0           |                  | 87.4        | 70-130         |                   |              |         |
| Calibration Check (EA51808-CCV1)        |        |                    |             | Prepared 8     | 2 Analyzed:      | 01/18/05    |                |                   |              |         |
| Gasoline Range Organics C6-C12          | 468    |                    | mg/kg       | 500            |                  | 93.6        | 80-120         |                   |              |         |
| Diesel Range Organics >C12-C35          | 525    |                    | "           | 500            |                  | 105         | 80-120         |                   |              |         |
| Total Hydrocarbon C6-C35                | 993    |                    | "           | 1000           |                  | 99.3        | 80-120         |                   |              |         |
| Surrogate: 1-Chlorooctane               | 52.8   |                    | "           | 50.0           | <b></b>          | 106         | 70-130         |                   |              |         |
| Surrogate: 1-Chlorooctadecane           | 48.1   |                    | "           | 50.0           |                  | 96.2        | 70-130         |                   |              |         |
| Calibration Check (EA51808-CCV2)        |        |                    |             | Prepared: (    | 01/18/05 A       | nalyzed: 01 | /19/05         |                   |              |         |
| Gasoline Range Organics C6-C12          | 457    |                    | mg/kg       | 500            |                  | 91.4        | 80-120         |                   |              |         |
| Diesel Range Organics >C12-C35          | 514    |                    | ۳           | 500            |                  | 103         | 80-120         |                   |              |         |
| Total Hydrocarbon C6-C35                | 971    |                    | *           | 1000           |                  | 97.1        | 80-120         |                   |              |         |
| Surrogate: 1-Chlorooctane               | 49.4   |                    | и           | 50.0           |                  | 98.8        | 70-130         |                   |              | ·····   |
| Surrogate: 1-Chlorooctadecane           | 49.2   |                    | "           | 50.0           |                  | 98.4        | 70-130         |                   |              |         |
| Matrix Spike (EA51808-MS1)              | Sou    | rce: 5A17016       | i-01        | Prepared &     | k Analyzed:      | 01/18/05    |                |                   |              |         |
| Gasoline Range Organics C6-C12          | 467    | 10.0               | mg/kg dry   | 506            | ND               | 92.3        | 75-125         |                   |              |         |
| Diesel Range Organics >C12-C35          | 524    | 10.0               | 47          | 506            | ND               | 104         | 75-125         |                   |              |         |
| Fotal Hydrocarbon C6-C35                | 991    | 10.0               | **          | 1010           | ND               | 98.1        | 75-125         |                   |              |         |
| Surrogate: 1-Chlorooctane               | 60.0   |                    | mg/kg       | 50.0           |                  | 120         | 70-130         |                   |              |         |
| Surrogate: 1-Chlorooctadecane           | 62.3   |                    | "           | 50.0           |                  | 125         | 70-130         |                   |              |         |
| Matrix Spike (EA51808-MS2)              | Sou    | rce: 5A18006       | -02         | Prepared: (    | 01/18/05 A       | nalyzed: 01 | /19/05         |                   |              |         |
| Gasoline Range Organics C6-C12          | 484    | 10.0               | mg/kg dry   | 525            | ND               | 92.2        | 75-125         |                   | ·            |         |
| Diesel Range Organics >C12-C35          | 498    | 10.0               |             | 525            | ND               | 94.9        | 75-125         |                   |              |         |
| Total Hydrocarbon C6-C35                | 982    | 10.0               | "           | 1050           | ND               | 93.5        | 75-125         |                   |              |         |
| urrogate: 1-Chlorooctane                | 53.9   |                    | mg/kg       | 50.0           |                  | 108         | 70-130         |                   |              |         |
| Surrogate: 1-Chlorooctadecane           | 50.3   |                    | "           | 50.0           |                  | 101         | 70-130         |                   |              |         |

| Plains All American EH & S | Project: Lea to Dublin 8 inch     | Fax: (432) 687-4914 |
|----------------------------|-----------------------------------|---------------------|
| 1301 S. County Road 1150   | Project Number: 2004-00223        | Reported:           |
| Midland TX, 79706-4476     | Project Manager: Camille Reynolds | 01/19/05 17:00      |

#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

| A Let Denote Limite Limite Level Denote 0/DEC Limite DDD L |        | N.     | porting |       | Spike | Source |      | %REC   |     | RPD   |       |
|--|--------|--------|---------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte Result Limit Units Level Result %REC Limits RFD F  | nalyte | Result | Limit   | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

#### Batch EA51808 - Solvent Extraction (GC)

| Matrix Spike Dup (EA51808-MSD1) | Sourc | e: 5A17016 | 5-01        | Prepared &  | Analyzed:  | 01/18/05    |         |      |     |
|---------------------------------|-------|------------|-------------|-------------|------------|-------------|---------|------|-----|
| Gasoline Range Organics C6-C12  | 494   | 10.0       | mg/kg dry   | 506         | ND         | 97.6        | 75-125  | 5.62 | 20  |
| Diesel Range Organics >C12-C35  | 549   | 10.0       | *           | 506         | ND         | 108         | 75-125  | 4.66 | 20  |
| Total Hydrocarbon C6-C35        | 1040  | 10.0       | *           | 1010        | ND         | 103         | 75-125  | 4.83 | 20  |
| Surrogate: 1-Chlorooctane       | 58.9  |            | mg/kg       | 50.0        | ·····      | 118         | 70-130  |      | ••• |
| Surrogate: 1-Chlorooctadecane   | 64.0  |            | "           | 50.0        |            | 128         | 70-130  |      |     |
| Matrix Spike Dup (EA51808-MSD2) | Sourc | e: 5A18006 | <b>i-02</b> | Prepared: 0 | )1/18/05 A | nalyzed: 01 | 1/19/05 |      | •   |
| Gasoline Range Organics C6-C12  | 499   | 10.0       | mg/kg dry   | 525         | ND         | 95.0        | 75-125  | 3.05 | 20  |
| Diesel Range Organics >C12-C35  | 522   | 10.0       |             | 525         | ND         | 99.4        | 75-125  | 4.71 | 20  |
| Total Hydrocarbon C6-C35        | 1020  | 10.0       | **          | 1050        | ND         | 97.1        | 75-125  | 3.80 | 20  |
| Surrogate: 1-Chlorooctane       | 57.6  |            | mg/kg       | 50.0        |            | 115         | 70-130  | • •  |     |
| Surrogate: 1-Chlorooctadecane   | 53.9  |            | "           | 50.0        |            | 108         | 70-130  |      |     |

Environmental Lab of Texas

|   | Plains All American EH & S | Project: Lea to Dublin 8 inch     | Fax: (432) 687-4914 |
|---|----------------------------|-----------------------------------|---------------------|
|   | 1301 S. County Road 1150   | Project Number: 2004-00223        | Reported:           |
| - | Midland TX, 79706-4476     | Project Manager: Camille Reynolds | 01/19/05 17:00      |
|   |                            |                                   |                     |

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

| Analyte                             | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch EA51807 - General Preparation | (Prep) |                    |       |                |                  |             |                |      |              |       |
| Blank (EA51807-BLK1)                |        |                    |       | Prepared: 0    | 1/18/05 A        | nalyzed: 01 | /19/05         |      |              |       |
| % Moisture                          | 0.001  |                    | %     |                |                  |             |                |      |              |       |
| Duplicate (EA51807-DUP1)            | Sou    | rce: 5A17017-      | 01    | Prepared: 0    | 1/18/05 A        | nalyzed: 01 | /19/05         |      |              |       |
| % Moisture                          | 4.0    |                    | %     |                | 3.9              |             |                | 2.53 | 20           |       |

Environmental Lab of Texas

| 1301 S. C | l American EH & S<br>County Road 1150<br>TX, 79706-4476 | Project Number: | Lea to Dublin 8 inch<br>2004-00223<br>Camille Reynolds | Fax: (432) 687-4914<br>Reported:<br>01/19/05 17:00 |
|-----------|---|-----------------|--|--|
|           |   | Notes and De    |  |  |
| DET       | Analyte DETECTED  |                 |  |  |
| ND        | Analyte NOT DETECTED at or above the reporting          | limit           |  |  |
| NR        | Not Reported  |                 |  |  |
| iry       | Sample results reported on a dry weight basis           |                 |  |  |
| RPD       | Relative Percent Difference                             |                 |  |  |
| LCS       | Laboratory Control Spike                                |                 |  |  |
| MS        | Matrix Spike  |                 |  |  |
| Dup       | Duplicate   |                 |  |  |

Report Approved By:

Raland Kituts

Date: 1/19/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

| Donlard M                  |                    | YEN DUT            | 3-1713     |              |              |            |              |                        |       |        |       |     |        | Đ,         | nieri        | Nam                 | o. /                  | E           | 9                  | 70             |              | UR          | 1z   | <u>v</u>            | <u>ء</u> `             | •                                      |
|----------------------------|--------------------|--------------------|------------|--------------|--------------|------------|--------------|------------------------|-------|--------|-------|-----|--------|------------|--------------|---------------------|-----------------------|-------------|--------------------|----------------|--------------|-------------|------|---------------------|------------------------|--|
|                            |                    |                    |            | • 4          | <u></u>      |            |              |                        |       |        |       |     |        |            |              |                     | •• <u>60</u>          | £           | i d'               |                | - <u>-</u>   |             | /    | Ø 22                | <br>                   |  |
|                            |                    | ASIN FN            |            | <u>C</u>     |              |            |              |                        |       |        |       |     |        |            |              |                     |                       |             |                    |                |              |             |      |                     |                        | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|                            |                    | 0 BOX 3            | <b>`</b>   |              |              |            |              |                        | ····  |        |       |     |        | ŧ          | Proje        |                     |                       |             |                    |                |              |             | -    | NM                  |                        |  |
| City/St                    | ate/Zip: <u>20</u> | TNGTON             | NM         | 8820         | ø            |            | <u></u>      |                        |       |        |       |     | -      |            |              | PO                  | #:                    |             | PA                 | $\overline{A}$ |              |             |      | <b></b>             | <b></b>                | <b></b>                                |
| Telepho                    | one No: 56.        | 5) 4412-2<br>Nov d | 124        |              | Fax No       | × (5       | Ø            | 5)                     | 39    | 6-2    | 14    | 29  | -      |            |              |                     |                       |             |                    |                |              |             |      |                     |                        |  |
| Sampler Sig                | inature:           | Sen d              | Litte      | 2            |              |            | •            |                        |       |        |       | ·   |        |            |              | -                   | 94494 <del>3333</del> |             |                    |                | <del></del>  | (Producers) |      |                     |                        |  |
|                            |                    |                    |            |              |              |            |              |                        |       |        |       |     |        |            | L            |                     | TCLP                  | -           |                    | lyze           | For.         | Π           |      | TT                  | -                      |  |
|                            |                    |                    |            |              |              |            | Г            | F                      | reset | valive |       | Т   | Matr   | ix 🕹       | 8            |                     | TOTAL                 | 3           | ┝╌┼                | $-\mathbf{P}$  | 4            |             |      |                     | L                      |  |
|                            |                    |                    |            | 2005         |              |            |              |                        |       |        |       |     |        |            | 05 1006      |                     |                       |             |                    |                | or BTEX 6260 |             |      |                     | RUSH TAT (Dra Schadula |  |
| 4                          |                    |                    |            |              |              | SVB        |              |                        |       |        |       |     |        |            | AN) 1005     | Å, R                |                       | Cd Cr Pb Hg |                    |                |              |             |      |                     | î.                     | 500                                    |
| 5918004                    |                    |                    |            | Date Sampled | Time Sampled | Containers |              |                        |       |        | None  | Ì   |        | 1,<br>Alto | A CONTRACTOR | Cations (Ca. Mg. Na | CEC                   |             |                    |                |              |             |      |                     | 1<br>Q                 |  |
| 5010                       |                    |                    |            | ite Sa       | The Sa       | ð          |              | ő                      | _ 3   | 0      | ġ     |     | Skudge | Other (sp  | TPH: 410.1   | ons (C              | SAR / ESP / CEC       | ais: As     | atiles             | <b>Evolati</b> | BTEX 802     | LORM.       |      |                     | 54 1                   | A) IAI HEUN                            |
| AB # (lab use only)        |                    | FIELD CODE         |            | -            |              | Ż          |              | Ĩ                      | Ŷ     | Ŧ      | 2     | 8 8 | +      |            | Ē            | C at                | 3                     | Met         | Volad              | 5              |              | z           |      | ╂╍┼                 | _ <del>[</del> ā       | 2                                      |
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|                            |                    |                    |            |              |              |            | $\square$    |                        | _     |        |       | ╇   | ┼╌┼    | _          | -            |                     |                       |             | $\left  - \right $ | +              |              |             |      | ┝╌┼                 | ╇                      | 4                                      |
|                            | <b></b>            |                    | - <u>-</u> |              |              |            | ┝┤           | $\left  - \right $     | +     |        |       | ╉╌  | ┼╍╊    | -          | ┢            |                     | ╋                     | +           |                    | -              |              | ┼┥          |      | ┿╋                  | ╉                      | ╉                                      |
|                            |                    |                    |            |              |              | +          |              | $\left  \right\rangle$ |       |        |       | ╈   | ╋╍╊    | ╈          | T            |                     | +                     |             |                    |                |              | ┼╌╉         |      |                     | T                      | +                                      |
|                            |                    |                    |            |              |              |            |              |                        |       |        |       | T   |        |            |              |                     |                       |             |                    |                | _            |             |      | П                   |                        | ]                                      |
| ipecial instructions:      |                    |                    |            |              |              |            |              |                        |       |        |       | L   |        |            | L            |                     | amni                  |             |                    |                | ntact?       |             | _Ļ   | ĻĻ                  | Ļ                      |  |
| iherendi intestraterratiĝi |                    |                    |            |              |              |            |              | •                      |       |        |       |     |        |            |              | Π                   | empe                  | atur        |                    | on R           | lecalp       |             | •    |                     | •                      |  |
| Reliquished by:            |                    | Date               | Time       | Received by: |              |            |              |                        |       |        | T     | ć   | ale    | Τ          | Time         |                     |                       |             |                    |                |              |             | on i |                     |                        |  |
| $\sim$                     |                    |                    |            |              |              |            |              |                        |       |        |       |     |        | 1          |              | 1                   |                       | - Y-        | · • 👡              | 1              |              |             |      |                     |                        |  |

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

| Client: | Basin | Environmental |
|---------|-------|---------------|
|---------|-------|---------------|

Date/Time: 01-18-05 @ 1000

Order #: \_\_\_\_\_\_\_\_\_

Initials: JMM

### Sample Receipt Checklist

| Temperature of container/cooler?                          | (Yes) | No | -0.5 C          |
|---|-------|----|-----------------|
| Shipping container/cooler in good condition?              | Yes   | No | N/A             |
| Custody Seals intact on shipping container/cooler?        | Yes   | No | Not present N/A |
| Custody Seals intact on sample bottles?                   | Yes   | No | Not present,    |
| Chain of custody present?                                 | (Tes) | No |                 |
| Sample Instructions complete on Chain of Custody?         | (Yes) | No |                 |
| Chain of Custody signed when relinquished and received?   | (Yes) | No |                 |
| Chain of custody agrees with sample label(s)              | res   | No |                 |
| Container labels legible and intact?                      | (es)  | No |                 |
| Sample Matrix and properties same as on chain of custody? | (es)  | No |                 |
| Samples in proper container/bottle?                       | (es)  | No |                 |
| Samples properly preserved?                               | Yes   | No |                 |
| Sample bottles intact?                                    | (Yes) | No |                 |
| Preservations documented on Chain of Custody?             | Yes)  | No |                 |
| Containers documented on Chain of Custody?                | Nes   | No |                 |
| Sufficient sample amount for indicated test?              | Ces   | No |                 |
| All samples received within sufficient hold time?         | (Yes) | No |                 |
| VOC samples have zero headspace?                          | (Yes) | No | Not Applicable  |
|   |       |    |                 |

Other observations:

#### Variance Documentation:

| Contact Person: |  |
|-----------------|--|
| Regarding:      |  |

\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Corrective Action Taken:



NMOCD Request Approval for Backfill of Excavation

## Basin Environmental Service Technologies, LLC



P. O. Box 301 Lovington, New Mexico 88260 Induttory basiness.com Office: (505) 396-2378 Fax: (505) 396-1429



16 May 2005

Mr. Larry Johnson New Mexico Oil Conservation Division Hobbs District 1 1625 N. French Drive Hobbs, New Mexico 88240



Re: Request Approval for Backfill of Excavation Plains Marketing, L. P. (C-141, dated 07 Dec 04) Lea to Dublin 8" Unit G (SW ¼, NE ¼) Section 28, Township 20 South, Range 37 East Lea County, New Mexico

Dear Mr. Johnson:

Basin Environmental Services (Basin), on behalf of Plains Marketing, L. P. (Plains), is submitting this request for approval to backfill the Lea to Dublin 8" remediation site at the above referenced location. As indicated on the attached Soil Chemistry Table and Sampling Location Site Map, confirmation soil samples are below New Mexico Oil Conservation Division (NMOCD) standards (<100 ppm) for the site, with the exception of the North P/L Floor, 15 feet sample which is 112 mg/kg TPH concentration. Based on a previous discussion of this remediation site with yourself, you stated that a TPH concentration of 112 mg/kg would be acceptable for closure based on the reduction from a TPH concentration of 176 mg/kg to 112 mg/kg. Plains and Millard Deck Estates have reached an agreement to purchase backfill from the Estate. The impacted soil will be transported to the Plains Marketing Lea Station Land Farm. A C-138 will be submitted once your approval is received.

Basin responded and clamped the pipeline release on 04 Dec 04, located on the Lea to Dublin 8" Pipeline. The impacted soils were excavated and stockpiled on a poly liner. As reported on the C-141, dated 07 Dec 04, approximately 910 barrels of crude oil were released and 860 barrels recovered. Excavation of the visually stained area was accomplished and confirmation soil samples were collected for laboratory analysis. Initial soil sampling results reported concentrations of total petroleum hydrocarbons (THP) and benzene, toluene, ethyl-benzene, and xylenes (BTEX) below NMOCD

with the exception of the North P/L Floor, 15 feet sample, which is 112 mg/kg. Backfilling of the site will begin once your approval is received.

Upon completion of the backfilling activities a Site Investigation Plan/Closure Request will be submitted to the Hobbs District 1, NMOCD office.

Should you have any questions or comments, please contact me at (505) 441-2124.

Sincerely,

Ken Dutton Basin Environmental Services

Enclosures: Site Map, Sampling Locations Soil Chemistry Table NMOCD C-141 Appendix D

NMOCD C-141

| strand II<br>01 . Grand Avenue, A  | s, NM 88240   |  |   |   | New Mexi<br>and Natura  | iĉo<br>I Resources   |   |  | Re  | -   | orm C-14  |
|--|---|--|---|---|---|--|---|--|---|---|---|
| 01 Grand Avenue, A<br>struey III<br>00 Rio Brazos Road, Az<br>strict IV  |   | ,  | -   |   | rvation Div<br>h St. Franc  |  |   |  |   | Office ir   | appropriat<br>accordance<br>116 on bac  |
| 20 St. Francis Dr., Sa   | nta Fe, NM 8750   | 5  |   |   | e, NM 875   |  |   |  |   |   | side of for   |
|  |   | Rela   | ease Notific  | and provide the state of the  |   | and the spectrum set of the second set of the second set of the second  | ction   |  |   |   | Anna da Antonio - mai vi  |
|  |   |  |   |   | OPERA   | TOR  |   | x Initia   | al Report   |   | Final Rep   |
| la e of Company  | Plains Marketi  | ng, LP   |   |   |   | nille Reynolds   |   |  |   |   | <b>R</b>  |
| ddress 5805 East   |   | and, TX '  | 79706   |   |   | No. 505-441-09   |   |  |   |   |   |
| acijity Name Lea t   | o Dublin  |  |   |   | Facility Typ  | e 8"Steel Pipel  | ine   |  |   | ·····   |   |
| undee Owner Mill   | ard Deck Esta   | te   | Mineral (   | Owner   |   |  |   | Lease N  | io.   |   |   |
|  |   |  | LOC   | ATIO  | N OF REI  | LEASE  |   |  |   |   |   |
| G 28   | Township<br>20S   | Range<br>37E   | Feet from the   |   | South Line  | Feet from the  | East/V  | Vest Line  | County<br>Lea   |   |   |
|  | Latitu  | de_ <u>32° 3</u> 2   | 2'46.8"   |   | _ Longitude   | <u>103° 15' 19.5'</u>  | ·   |  | _   |   |   |
| -  |   |  | NAT   | <b>FURE</b>   | OF REL  | EASE   |   |  |   |   |   |
| ypof Release Crud<br>ou e of Release 8"  |   |  |   |   | Volume of   | Release 910 bar<br>lour of Occurrent   |   |  | Recovered 8<br>Hour of Dis  |   | ls  |
| Vas Immediate Notic  |   |  |   |   | If YES, To  | Whom?  |   |  |   | <u>, , , , , , , , , , , , , , , , , , , </u>   |   |
|  |   | Yes 📋  | No 🗌 Not Re   | quired  | Gary Wink   |  |   |  |   | <u></u>   | 570   |
| y hom? Camille R<br>/as a Watercourse R  |   |  |   |   |   | lour 12-4-04@18<br>olume Impacting   |   |  |   |   | - /,  |
|  |   | ] Yes 🛛  | No  |   | II 165, V   | nume impacung  | une wat   | ercourse.  |   |   | , 1   |
| fa atercourse was  | impacicu, Dese  | noc runy.  |   |   |   |  |   |  |   |   | 1ED   |
| lease. The line is a   | 8 inch steel tran   | smission p   | pipeline that produced  | uces app  | proximately 8   | 72 barrels per ho  | ur. The   | pressure or  | is replaced to<br>the line is a   | Hob<br>OC<br>o mitiga<br>approxir   | te the  |
| elease. The line is a single the gravity of escribe Area Affected  | 8 inch steel tran<br>the sour crude c<br>ed and Cleanup   | smission p<br>bil is 36. T<br>Action Tal   | hipeline that produce<br>the H <sub>2</sub> S content on the H <sub>2</sub> S content of the  | uces app<br>f the sou   | proximately 8<br>ar crude is less   | 72 barrels per house than 10 parts pe  | ur. The<br>r million  | pressure or  | the line is a   | o mitiga<br>approxir  | te the<br>natcly 369  |
| elease. The line is a<br>sind the gravity of<br>escribe Area Affecto<br>erial extent of surfac<br>heapby certify that the<br>extensions all operato<br>ubbe health or the en<br>nould their operation<br>r the environment.                                      | 8 inch steel tran<br>the sour crude c<br>ed and Cleanup<br>e impact was ap<br>the information g<br>pors are required<br>avironment. The<br>s have failed to                                       | smission p<br>bil is 36. T<br>Action Tal<br>proximate<br>iven above<br>to report a<br>e acceptan<br>adequately<br>OCD accep              | hipeline that produ-<br>the H <sub>2</sub> S content on<br>ken.* The crude<br>ly 150' x 128'.<br>e is true and com-<br>nd/or file certain<br>ce of a C-141 rep<br>y investigate and | uces app<br>f the sou<br>oil was<br>plete to<br>release<br>wort by the<br>remedia | vacuumed up<br>the best of my<br>notifications a<br>the contaminati   | 72 barrels per hor<br>than 10 parts per<br>and the impacted<br>knowledge and the<br>nd perform corre-<br>tarked as "Final Fion that pose a the   | ur. The<br>r million<br>soil was<br>understat<br>ctive act<br>Report d<br>reat to g                               | pressure or<br>a.<br>s excavated<br>nd that pur-<br>ions for rel<br>loes not rel<br>round wate | and stockp<br>and stockp<br>suant to NM<br>eases which<br>ieve the ope<br>r, surface wi   | o mitiga<br>approxir<br>iled on p<br>OCD ru<br>may en<br>rator of<br>ater, hu                           | te the<br>nately 369<br>plastic. The<br>less and<br>danger<br>liability<br>nan health |
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