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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| Name of Company | OGRID Number | Contact |
|---|---|---|
| YATES PETROLEUM CORPORATION | 25575 | SHERRY BONHAM |
| Address | | Telephone No. |
| 105 S 4TH STREET | | 505 748 1471 |
| Facility Name | API Number | Facility Type |
| MORTON UNIT 3 | 30 025 35422 | TANK BATTERY |

| Surface Owner | Mineral Owner | Lease No. |
|---|---|---|
| STATE | STATE | V-3643 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| P | 32 | 14S | 35E | 800 | SOUTH | 660 | EAST | LEA |

**Latitude** 33.0559 **Longitude** 103 42282

## NATURE OF RELEASE

| Type of Release | Volume of Release | Volume Recovered |
|---|---|---|
| CONDENSATE | 40 BBLS/CONDENSATE | 30 BBLS/CONDENSATE |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery |
| VALVE ON TANK | 12/7/06 PM | 12/7/06 PM |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? PAT CAPERTON NMOCD DISTRICT 1 VOICE MAIL AND FOLLOW-UP E-MAIL NOTIFICATION | |
| By Whom? SHERRY BONHAM | Date and Hour 12/8/06 10:00 AM | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. N/A | |

AUG 2007
Received
Hobbs
OCD

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
FREEZING TEMPERATURES CAUSED VALVE TO BURST. REPLACED VALVE.

Describe Area Affected and Cleanup Action Taken.*
APPROXIMATE 12' X 30' X 2" AREA WITHIN BERM AFFECTED. VACUUMED STANDING FLUIDS. IMPACTED MATERIALS EXCAVATED AND HAULED TO DISPOSAL FACILITY. AREA AERATED BY TILLING AND FERTILIZED TO ASSIST BIO-REMEDIATION PROCESS. CONFIRMATION SAMPLES OBTAINED. SOIL ANALYSES COMPLIANT WITH NMOCD RRALS. (SEE ATTACHED SAMPLE POINT DIAGRAM AND ANALYTICAL REPORT.) ALL WORK COMPLETE. ***REQUESTING CLOSURE TO INCIDENT. FINAL REPORT.***

DEPTH TO GROUND WATER: >50' AND <100', WELLHEAD PROTECTION AREA: NO; DISTANCE TO SURFACE WATER. >1000'.
SITE RANKING 10

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

| | |
|---|---|
| Signature: | OIL CONSERVATION DIVISION |
| Printed Name: Sherry Bonham | Approved by District Supervisor: Chris Williams |
| Title: Environmental Regulatory Agent | Approval Date: 8/30/07 Expiration Date: 8/30/07 |
| E-mail Address: sherryb@ypcnm com | Conditions of Approval: Attached ☐ |
| Date August 20, 2007 Phone: 505.748.1471 | |

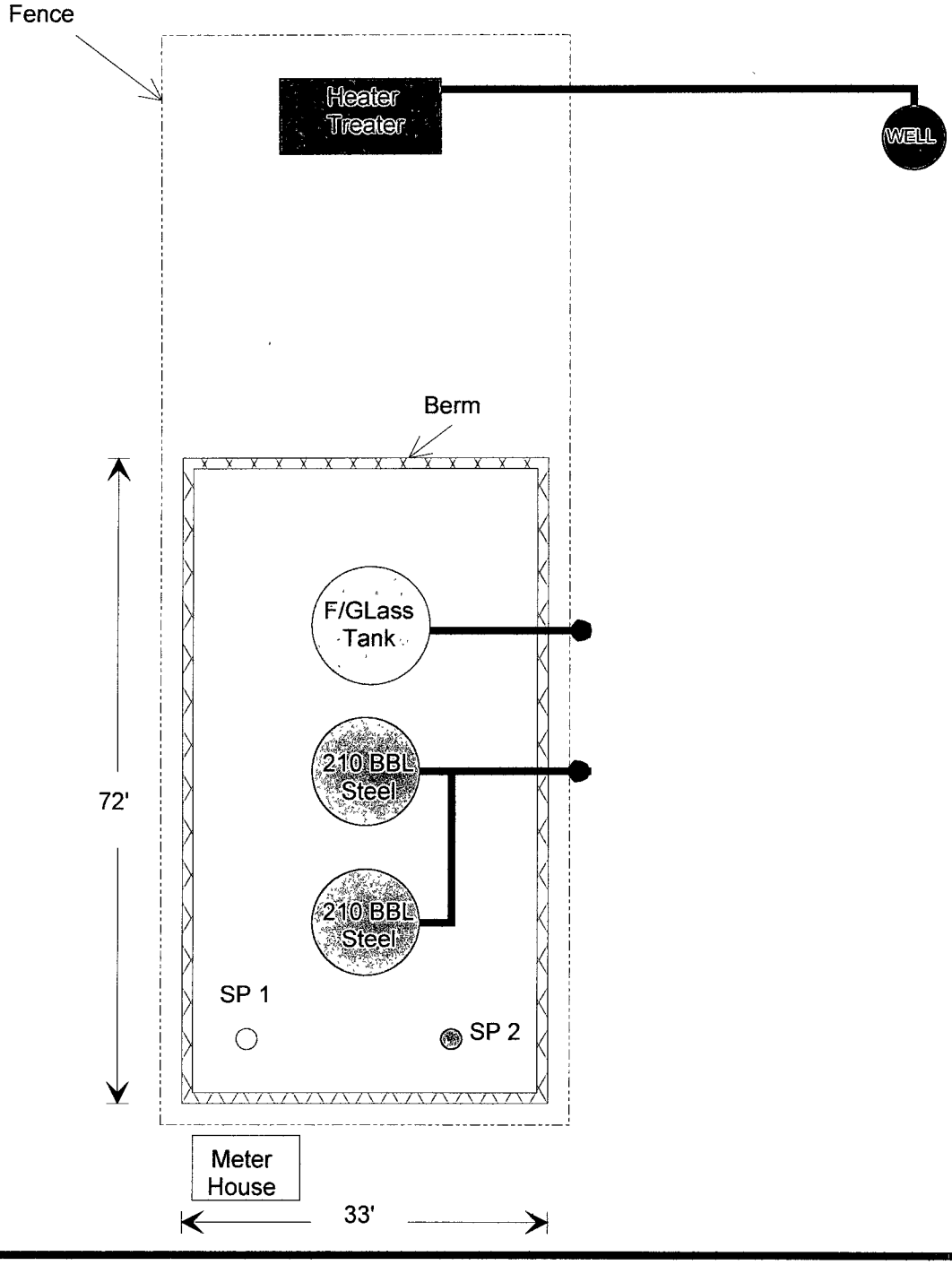
* Attach Additional Sheets If Necessary

RP1159

| Sample ID | Sample Date | Sample Type | Depth | Chlorides | BTEX | TPH (GRO) | TPH (DRO) | TPH (TOTAL) |
|---|---|---|---|---|---|---|---|---|
| SP1 | 7/5/2007 | Grab | | 8:81 | ND | 353 | 131 | 484 |
| Sample ID | Sample Date | Sample Type | Depth | Chlorides | BTEX | TPH (GRO) | TPH (DRO) | TPH (TOTAL) |
| SP2 | 7/5/2007 | Grab | | 9 52 | ND | 156 | 167 | 323 |

**Site Ranking: 10.**

Soil analyses performed at Environmental Lab of Texas. All results are ppm




YATES PETROLEUM CORPORATION

**Morton Unit 3**

**Sec. 32 T14S R35E**

**Lea County, NM**

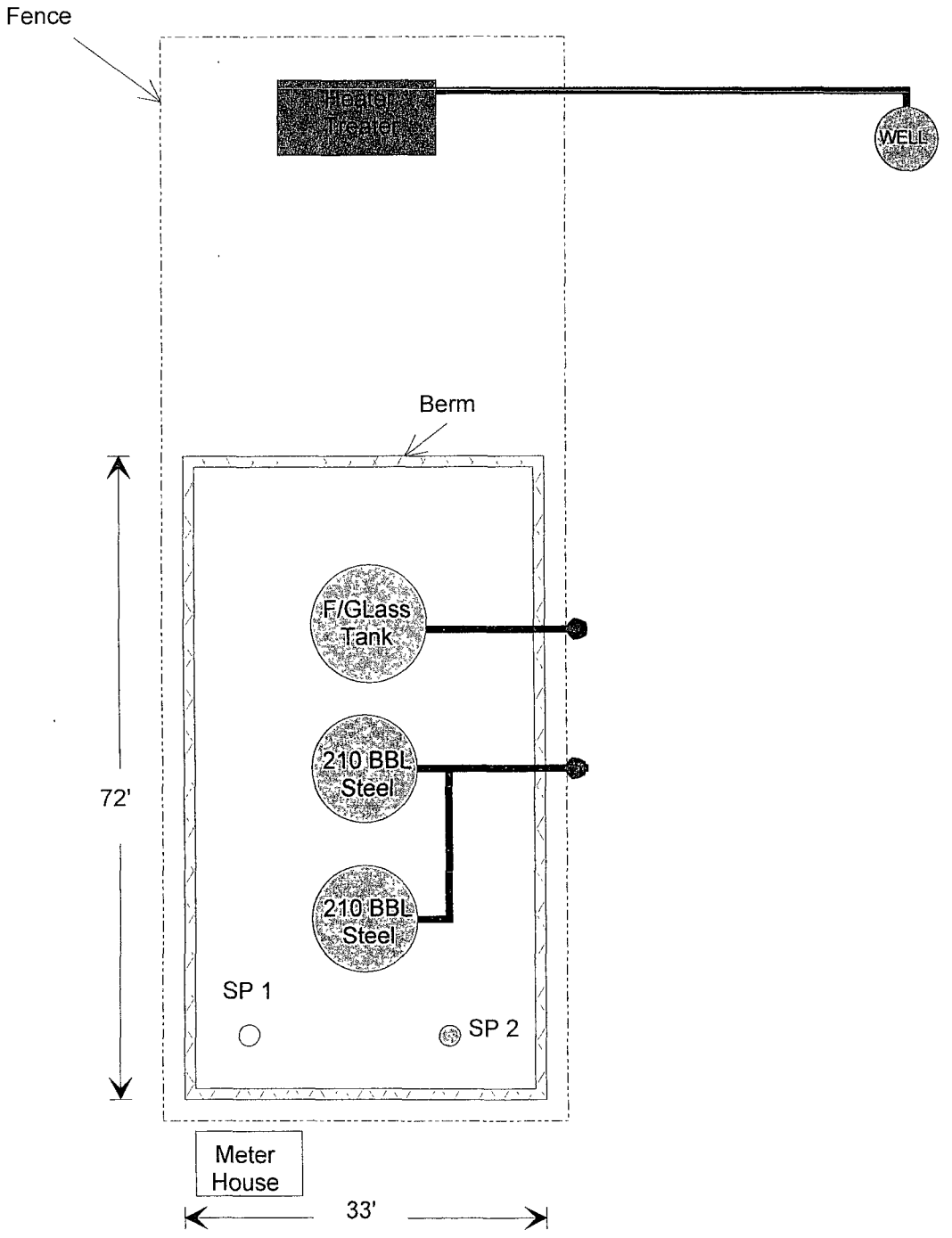
**Samle Point Diagram**
**July 5, 2007**

**(Not to Scale)**

| Sample ID | Sample Date | Sample Type | Depth | Chlorides | BTEX | TPH (GRO) | TPH (DRO) | TPH (TOTAL) |
|---|---|---|---|---|---|---|---|---|
| SP1 | 7/5/2007 | Grab | | 8.81 | ND | 353 | 131 | 484 |
| Sample ID | Sample Date | Sample Type | Depth | Chlorides | BTEX | TPH (GRO) | TPH (DRO) | TPH (TOTAL) |
| SP2 | 7/5/2007 | Grab | | 9.52 | ND | 156 | 167 | 323 |

**Site Ranking: 10.**

Soil analyses performed at Environmental Lab of Texas All results are ppm.




| | | |
|---|---|---|
| YATES PETROLEUM CORPORATION | **Morton Unit 3**<br>**Sec. 32 T14S R35E**<br>**Lea County, NM** | **Samle Point Diagram**<br>**July 5, 2007**<br>**(Not to Scale)** |

# Analytical Report 285556

## for

## Talon LPE

**Project Manager: Eb Taylor**

**Morton Unit # 3**

**YatesP036 SPL**

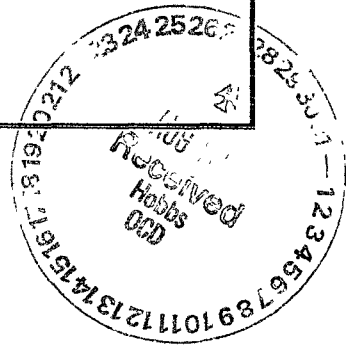
**14-AUG-07**


**12600 West I-20 East Odessa, Texas 79765**

**A Xenco Laboratories Company**

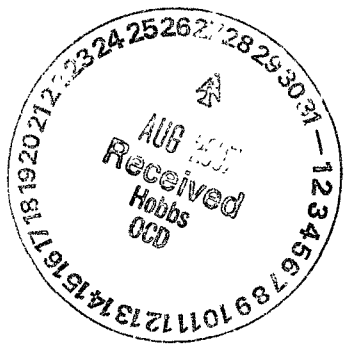

NELAC certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



14-AUG-07

Project Manager: **Eb Taylor**
**Talon LPE**
318 E. Taylor
Hobbs, NM 88240




Reference: XENCO Report No: **285556**
**Morton Unit # 3**
Project Address: Lea County, NM

**Eb Taylor**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 285556. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 285556 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Brent Barron**
Odessa Laboratory Director

# Certificate of Analysis Summary 285556

## Talon LPE, Hobbs, NM

### Project Name: Morton Unit # 3

**Project Id:** YatesP036 SPL
**Contact:** Eb Taylor
**Project Location:** Lea County, NM

**Date Received in Lab:** Fri Jul-06-07 12:30 pm
**Report Date:** 14-AUG-07
**Project Manager:** Brent Barron, II

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 285556-001 | 285556-002 | | | | |
| | *Field Id:* | SP-1 | SP-2 | | | | |
| | *Depth:* | | | | | | |
| | *Matrix:* | SOIL | SOIL | | | | |
| | *Sampled:* | Jul-05-07 11:15 | Jul-05-07 11:25 | | | | |
| **BTEX by EPA 8021B** | *Extracted:* | Jul-10-07 17:00 | Jul-10-07 17:00 | | | | |
| | *Analyzed:* | Jul-11-07 02:50 | Jul-11-07 16:44 | | | | |
| | *Units/RL:* | mg/kg RL | mg/kg RL | | | | |
| Benzene | | ND 0.0022 | ND 0.0023 | | | | |
| Toluene | | ND 0.0022 | ND 0.0023 | | | | |
| Ethylbenzene | | ND 0.0022 | ND 0.0023 | | | | |
| m,p-Xylene | | ND 0.0045 | ND 0.0047 | | | | |
| o-Xylene | | ND 0.0022 | ND 0.0023 | | | | |
| Total Xylenes | | ND | ND | | | | |
| Total BTEX | | ND | ND | | | | |
| **Percent Moisture** | *Extracted:* | | | | | | |
| | *Analyzed:* | Jul-07-07 10:35 | Jul-07-07 10:40 | | | | |
| | *Units/RL:* | % RL | % RL | | | | |
| Percent Moisture | | 11 | 14 | | | | |
| **TPH by SW 8015B** | *Extracted:* | Jul-12-07 12:24 | Jul-12-07 12:24 | | | | |
| | *Analyzed:* | Jul-12-07 20:18 | Jul-12-07 20:46 | | | | |
| | *Units/RL:* | mg/kg RL | mg/kg RL | | | | |
| C6-C10 Gasoline Range Hydrocarbons | | 353 11.2 | 156 11.6 | | | | |
| C10-C28 Diesel Range Hydrocarbons | | 131 11.2 | 167 11.6 | | | | |





Brent Barron
Odessa Laboratory Director

# Flagging Criteria

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

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

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

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

**F** RPD exceeded lab control limits.

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

**U** Analyte was not detected.

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

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

**K** Sample analyzed outside of recommended hold time.

# Form 2 - Surrogate Recoveries

**Project Name: Morton Unit # 3**

**Work Order #:** 285556 **Project ID:** YatesP036 SPL

**Lab Batch #:** 700237 **Sample:** 285554-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| BTEX by EPA 8021B | SURROGATE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|
| Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 4-Bromofluorobenzene | 0.0171 | 0.0500 | 34 | 75-125 | * |

**Lab Batch #:** 700237 **Sample:** 285554-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| BTEX by EPA 8021B | SURROGATE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|
| Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 4-Bromofluorobenzene | 0.0182 | 0.0500 | 36 | 75-125 | * |

**Lab Batch #:** 700237 **Sample:** 285556-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| BTEX by EPA 8021B | SURROGATE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|
| Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 4-Bromofluorobenzene | 0.0350 | 0.0500 | 70 | 75-125 | ** |

**Lab Batch #:** 700237 **Sample:** 285556-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| BTEX by EPA 8021B | SURROGATE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|
| Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 4-Bromofluorobenzene | 0.0446 | 0.0500 | 89 | 75-125 | |

**Lab Batch #:** 700237 **Sample:** 496997-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| BTEX by EPA 8021B | SURROGATE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|
| Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 4-Bromofluorobenzene | 0.0501 | 0.0500 | 100 | 80-120 | |

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

# Form 2 - Surrogate Recoveries

**Project Name: Morton Unit # 3**

**Work Order #:** 285556 **Project ID:** YatesP036 SPL

**Lab Batch #:** 700237 **Sample:** 496997-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| BTEX by EPA 8021B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 0.0452 | 0.0500 | 90 | 80-120 | |

**Lab Batch #:** 700263 **Sample:** 285556-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 37.7 | 50.0 | 75 | 70-135 | |
| 1-Chlorooctane | 43.1 | 50.0 | 86 | 70-135 | |

**Lab Batch #:** 700263 **Sample:** 285556-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 48.5 | 50.0 | 97 | 70-135 | |
| 1-Chlorooctane | 45.0 | 50.0 | 90 | 70-135 | |

**Lab Batch #:** 700263 **Sample:** 285803-001 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 42.4 | 50.0 | 85 | 70-135 | |
| 1-Chlorooctane | 70.0 | 50.0 | 140 | 70-135 | * |

**Lab Batch #:** 700263 **Sample:** 285803-001 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 48.0 | 50.0 | 96 | 70-135 | |
| 1-Chlorooctane | 76.5 | 50.0 | 153 | 70-135 | * |

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

# Form 2 - Surrogate Recoveries

**Project Name: Morton Unit # 3**

**Work Order #:** 285556 **Project ID:** YatesP036 SPL

**Lab Batch #:** 700263 **Sample:** 497005-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 34.0 | 50.0 | 68 | 70-135 | * |
| 1-Chlorooctane | 37.4 | 50.0 | 75 | 70-135 | |

**Lab Batch #:** 700263 **Sample:** 497005-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| TPH by SW 8015B<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctadecane | 39.9 | 50.0 | 80 | 70-135 | |
| 1-Chlorooctane | 36.6 | 50.0 | 73 | 70-135 | |

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

# Blank Spike Recovery

## Project Name: Morton Unit # 3

**Work Order #:** 285556 **Project ID:** YatesP036 SPL

**Lab Batch #:** 700237 **Sample:** 496997-1-BKS **Matrix:** Solid
**Date Analyzed:** 07/11/2007 **Date Prepared:** 07/10/2007 **Analyst:** CELKEE
**Reporting Units:** mg/kg **Batch #:** 1

| BTEX by EPA 8021B<br>Analytes | Blank Result [A] | BLANK /BLANK SPIKE RECOVERY STUDY<br>Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|---|
| Benzene | ND | 0.0500 | 0.0475 | 95 | 70-130 | |
| Toluene | ND | 0.0500 | 0.0492 | 98 | 70-130 | |
| Ethylbenzene | ND | 0.0500 | 0 0530 | 106 | 71-129 | |
| m,p-Xylene | ND | 0.1000 | 0.0937 | 94 | 70-135 | |
| o-Xylene | ND | 0.0500 | 0.0517 | 103 | 71-133 | |

**Lab Batch #:** 700263 **Sample:** 497005-1-BKS **Matrix:** Solid
**Date Analyzed:** 07/12/2007 **Date Prepared:** 07/12/2007 **Analyst:** SHE
**Reporting Units:** mg/kg **Batch #:** 1

| TPH by SW 8015B<br>Analytes | Blank Result [A] | BLANK /BLANK SPIKE RECOVERY STUDY<br>Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|---|
| C6-C10 Gasoline Range Hydrocarbons | ND | 500 | 481 | 96 | 70-135 | |
| C10-C28 Diesel Range Hydrocarbons | ND | 500 | 387 | 77 | 70-135 | |

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

# Form 3 - MS / MSD Recoveries

## Project Name: Morton Unit # 3

**Work Order #** 285556 **Project ID:** YatesP036 SPL

**Lab Batch ID:** 700237 **QC- Sample ID:** 285554-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 07/11/2007 **Date Prepared:** 07/10/2007 **Analyst:** CELKEE

**Reporting Units:** mg/kg

| BTEX by EPA 8021B Analytes | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Benzene | ND | 0.1030 | 0.0526 | 51 | 0.1030 | 0.0577 | 56 | 9 | 70-130 | 35 | X |
| Toluene | 0.0059 | 0.1030 | 0.0439 | 37 | 0.1030 | 0.0489 | 42 | 13 | 70-130 | 35 | X |
| Ethylbenzene | 0.0040 | 0.1030 | 0.0367 | 32 | 0.1030 | 0.0396 | 35 | 9 | 71-129 | 35 | X |
| m,p-Xylene | 0.0067 | 0.2061 | 0.0671 | 29 | 0.2061 | 0.0721 | 32 | 10 | 70-135 | 35 | X |
| o-Xylene | 0.0042 | 0.1030 | 0.0368 | 32 | 0.1030 | 0.0397 | 34 | 6 | 71-133 | 35 | X |

**Lab Batch ID:** 700263 **QC- Sample ID:** 285803-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 07/13/2007 **Date Prepared:** 07/12/2007 **Analyst:** SHE

**Reporting Units:** mg/kg

| TPH by SW 8015B Analytes | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| C6-C10 Gasoline Range Hydrocarbons | 776 | 552 | 1450 | 122 | 552 | 1470 | 126 | 3 | 70-135 | 35 | |
| C10-C28 Diesel Range Hydrocarbons | 766 | 552 | 1350 | 106 | 552 | 1470 | 128 | 19 | 70-135 | 35 | |

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

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

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

# Sample Duplicate Recovery

## Project Name: Morton Unit # 3

**Work Order #:** 285556

**Lab Batch #:** 699843 **Project ID:** YatesP036 SPL

**Date Analyzed:** 07/07/2007 **Date Prepared:** 07/07/2007 **Analyst:** JLG

**QC- Sample ID:** 285596-001 D **Batch #:** 1 **Matrix:** Soil

**Reporting Units:** %

| Percent Moisture<br>Analyte | SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | |
|---|---|---|---|---|---|
| | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Percent Moisture | 8.31 | 6 95 | 18 | 20 | |

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

# Environmental Lab of Texas

*CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST*

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

bs 7/13

Project Manager: Ed Taylor
Company Name: Talon LPE
Company Address: 318 E. Taylor
City/State/Zip: Hobbs New Mexico 88240
Telephone No.: 432 238-6388 Fax No: 505 393-4658
Sampler Signature: Ed
e-mail: eTaylor@TalonLPE

Project Name: ~~Morton~~ Morton Unit #3
Project #: 4ATESP0360SPL
Project Loc: Lea County NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 285556

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | No of Containers | Preservation & # of Containers: Ice | HNO3 | HCl | H2SO4 | NaOH | Na2S2O3 | None | Other (Specify) | Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other | Analyze For: TCLP/TOTAL: TPH 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B 5030 or BTEX 8260 | RCI | N O R M | TPH (8015M) | | | | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SP-1 | | | ~~7/5/07~~ 7/5/07 | ~~11:15~~ 11:15 | 1 | X | | | | | | | | S | X | | | | | | | X | | | X | | | | | |
| 02 | SP-2 | | | ~~7/5/07~~ 7/5/07 | ~~11:25~~ 11:25 | 1 | X | | | | | | | | S | | | | | | | | X | | | X | | | | | |
| | | | | 7/5/07 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | BS 8/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INV 90123

**Special Instructions:**

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 7/6/07 | 10:00 | [signature] | 7/6/07 | 12:00 |
| [signature] | 7/6/07 | 12:30 | | | |
| | | | Received by ELOT: Andrea Lam | 7-6-07 | 12:30 |

**Laboratory Comments:**

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star

402 glass w/labels

Temperature Upon Receipt: 4.5 °C

# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Talon LPE

Date/ Time: 7·6·07 12:30

Lab ID #: 285556

Initials: AL

## Sample Receipt Checklist

| | | | | Client Initials |
|---|---|---|---|---|
| #1 Temperature of container/ cooler? | Yes | No | 4.5 °C | |
| #2 Shipping container in good condition? | Yes | No | | |
| #3 Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 Chain of Custody present? | Yes | No | | |
| #6 Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| #9 Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 Containers supplied by ELOT? | Yes | No | | |
| #12 Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 Samples properly preserved? | Yes | No | See Below | |
| #14 Sample bottles intact? | Yes | No | | |
| #15 Preservations documented on Chain of Custody? | Yes | No | | |
| #16 Containers documented on Chain of Custody? | Yes | No | | |
| #17 Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 VOC samples have zero headspace? | Yes | No | Not Applicable | |

## Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

# Analytical Report 285555

## for

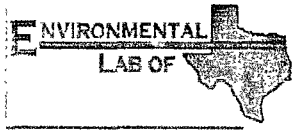
## Talon LPE

**Project Manager: Eb Taylor**

**Morton Unit # 3**

**YatesP036 SPL**

**14-AUG-07**




**12600 West I-20 East Odessa, Texas 79765**

**A Xenco Laboratories Company**

NELAC certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

ENVIRONMENTAL LAB OF

14-AUG-07

Project Manager: **Eb Taylor**
**Talon LPE**
318 E. Taylor
Hobbs, NM 88240

Reference: XENCO Report No: **285555**
**Morton Unit # 3**
Project Address: Lea County, NM

**Eb Taylor**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 285555. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 285555 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Brent Barron**
Odessa Laboratory Director

# Certificate of Analysis Summary 285555

## Talon LPE, Hobbs, NM

### Project Name: Morton Unit # 3

**Project Id:** YatesP036 SPL
**Contact:** Eb Taylor
**Project Location:** Lea County, NM

**Date Received in Lab:** Fri Jul-06-07 12:30 pm
**Report Date:** 14-AUG-07
**Project Manager:** Brent Barron, II

| *Analysis Requested* | *Lab Id:* | 285555-001 | | 285555-002 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | *Field Id:* | SP-1 | | SP-2 | | | | | |
| | *Depth:* | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | | | | |
| | *Sampled:* | Jul-05-07 11 15 | | Jul-05-07 11:25 | | | | | |
| **Inorganic Anions by EPA 300** | *Extracted:* | | | | | | | | |
| | *Analyzed:* | Jul-09-07 14:32 | | Jul-09-07 14:52 | | | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 8.81 | 5 00 | 9.52 | 5.00 | | | | |





Brent Barron
Odessa Laboratory Director

# Flagging Criteria

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

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

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

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

**F** RPD exceeded lab control limits.

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

**U** Analyte was not detected.

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

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

**K** Sample analyzed outside of recommended hold time.

# Blank Spike Recovery

**Project Name:** Morton Unit # 3

**Work Order #:** 285555 **Project ID:** YatesP036 SPL

**Lab Batch #:** 699974 **Sample:** 699974-1-BKS **Matrix:** Solid

**Date Analyzed:** 07/09/2007 **Date Prepared:** 07/09/2007 **Analyst:** LATCOR

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

| | BLANK /BLANK SPIKE RECOVERY STUDY | | | | | |
|---|---|---|---|---|---|---|
| **Inorganic Anions by EPA 300**<br>**Analytes** | **Blank Result [A]** | **Spike Added [B]** | **Blank Spike Result [C]** | **Blank Spike %R [D]** | **Control Limits %R** | **Flags** |
| Chloride | ND | 10.0 | 8.76 | 88 | 75-125 | |

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

# Form 3 - MS Recoveries

**Project Name: Morton Unit # 3**

**Work Order #:** 285555
**Lab Batch #:** 699974
**Project ID:** YatesP036 SPL
**Date Analyzed:** 07/09/2007
**Date Prepared:** 07/09/2007
**Analyst:** LATCOR
**QC- Sample ID:** 285555-001 S
**Batch #:** 1
**Matrix:** Soil
**Reporting Units:** mg/kg

| Inorganic Anions by EPA 300 | MATRIX / MATRIX SPIKE RECOVERY STUDY | | | | | |
|---|---|---|---|---|---|---|
| Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Chloride | 8.81 | 100 | 103 | 94 | 75-125 | |

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

# Environmental Lab of Texas

*CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST*

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

BB 8/16

Project Manager: EB TAYLOR
Company Name: TAYLOR PE
Company Address: 318 E. TAYLOR
City/State/Zip: HOBBS NEW MEXICO
Telephone No.: 432 238-6385 Fax No.: 505 393-4658
Sampler Signature:
e-mail: etaylor@taylorpe.com

Project Name: ~~PEET~~ MORTON UNIT #3
Project #: YATESP036 SP2
Project Loc: LEA COUNTY NM
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 285555

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | No of Containers | Preservation & # of Containers: Ice | $HNO_3$ | HCl | $H_2SO_4$ | NaOH | $Na_2S_2O_3$ | None | Other (Specify) | Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other | Analyze For: TPH 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N O R M | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SP-1 | | | 7/5 | 11:15 | 1 | X | | | | | | | | S | | | X | | | | | | | | | |
| 02 | SP-2 | | | 7/5 | 11:25 | 1 | X | | | | | | | | S | | | X | | | | | | | | | |

TCLP / TOTAL

Special Instructions:

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 7/8/07 | 12:00 | | 7/8/07 | 12:00 |
| Relinquished by | Date | Time | Received by | Date | Time |
| | 7/8/07 | 12:30 | | | |
| Relinquished by | Date | Time | Received by ELOT: | Date | Time |
| | | | Andrea Lam | 7-8-07 | 12:30 |

**Laboratory Comments:**
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Custody seals on container(s) Y (N)
Custody seals on cooler(s) (Y) N
Sample Hand Delivered (Y) N
by Sampler/Client Rep ? (Y) N
by Courier? UPS DHL FedEx Lone Star
4 oz glass w/labels
Temperature Upon Receipt: 4.5 °C

# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client. Talon LPE

Date/ Time. 7·6·07 12:30

Lab ID # : 785555

Initials: AL

## Sample Receipt Checklist

| | | | | | Client Initials |
|---|---|---|---|---|---|
| #1 | Temperature of container/ cooler? | (Yes) | No | 4.5 °C | |
| #2 | Shipping container in good condition? | (Yes) | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | (Not Present) | |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | (Not Present) | |
| #5 | Chain of Custody present? | (Yes) | No | | |
| #6 | Sample instructions complete of Chain of Custody? | (Yes) | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | (Yes) | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | (Yes) | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | (Yes) | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | (Yes) | No | | |
| #11 | Containers supplied by ELOT? | (Yes) | No | | |
| #12 | Samples in proper container/ bottle? | (Yes) | No | See Below | |
| #13 | Samples properly preserved? | (Yes) | No | See Below | |
| #14 | Sample bottles intact? | (Yes) | No | | |
| #15 | Preservations documented on Chain of Custody? | (Yes) | No | | |
| #16 | Containers documented on Chain of Custody? | (Yes) | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | (Yes) | No | See Below | |
| #18 | All samples received within sufficient hold time? | (Yes) | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | (Not Applicable) | |
| #20 | VOC samples have zero headspace? | (Yes) | No | Not Applicable | |

## Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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