

Bratcher, Mike, EMNRD

From: Debi Moore [debi@sportenvironmental.com]
Sent: Friday, February 12, 2010 5:30 PM
To: Bratcher, Mike, EMNRD
Cc: Harol Creech; Dawn Howard, Nick Williams, Sally Jones
Subject: Re Southwest Royalties, Inc - Malaga A 002
Attachments: Site Ranking Form xls; 2010_359288_MalagaA002_164242 pdf, Sample Data Summary.xlsx, Photos of Excavation for report.docx

Mike,

Thank you for approving an extension for submittal of site ranking information and a remediation/closure proposal, based on site delineation and site ranking, until today, February 12, 2010. Attached please find the Site Ranking Form, Xenco analytical report, Sample Data Summary (SDS) and site photos. These photos were taken at the time of sample collection and provide a visual indication of excavation extent.

On January 12, 2010, the Site Ranking Criteria Form was emailed to your attention. The total site ranking score and acceptable concentrations were determined to be >19 and Benzene, 10 ppm; BTEX, 50 ppm and TPH 100 ppm, respectively. For your convenience, attached please find a copy of the Xenco analytical report along with a Summary Data Summary report denoting elevated results. Southwest Royalties excavated all visually contaminated soils around the cellar prior to Sport Environmental collecting samples. It was determined at the time of excavation that there was an integrity issue with the cellar resulting in excavation of additional soils. The excavated soils were placed on a liner for disposal at an approved disposal site. Volume of soil disposed of and excavation dimensions are currently being determined by the client. Sample results indicate a TPH level of 164 ppm on the east excavation floor at 10' bgs, outside and adjacent to the cellar. All other vertical delineation results were collected at a depth (with no visual hydrocarbon contamination) of 7' bgs. These vertical delineation samples resulted in non-detect TPH and BTEX levels. However, you will find that the chloride levels in these soils range from 2640 mg/kg to 4740 mg/kg.

Additional delineation sampling will be required along with chloride background sampling. For safety and equipment stability reasons, we scheduled drilling of soil borings with Straub Corporation and encountered a delay due to equipment availability. We have been on their waiting list and a date became open for sampling on February 15, 2010. Please let this email also serve as notification of additional sampling to commence on Monday, February 15, 2010 at 8:30 am (CST). Soil borings will be collected and analyzed every 5' bgs to a sufficient depth as dictated by CI field titration results. In the event the NMOCD would like to witness sampling or needs site contact information....Nick Williams, Environmental Coordinator, and Sally Jones, Environmental Compliance Manager, will be handling job oversight and field testing.

We would like to request additional time for remediation/closure proposal submittal until such time when the release site is fully delineated. We apologize for requesting an extension via email, but we have made several attempts to reach you and have been unsuccessful. We wanted to insure that you received a status report on the date you requested. If we collect samples on February 15 then standard turn-around time for analysis should afford for analytical results to be available by Friday, February 19, 2010. A plan can be submitted to you timely following results receipt. I will be out of the office the first part of next week but am available to discuss with you. Please give me a call on my cell (432-553-8555) to discuss our requests at your earliest convenience. We would like to request an extension until February 25, 2010 for remediation/closure proposal submittal.

Thank you,



DEBI SPORT MOORE, M.E. R.E.P.A.

President

Sport Environmental Services, PLLC
502 North Big Spring Street
Midland, Texas 79701
debi@sportenvironmental.com
Business: 432.683.1100
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Cell: 432-553-8555

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From: Mike Bratcher <mike.bratcher@state.nm.us>
Date: Tue, 12 Jan 2010 11:04:19 -0700
To: Debi Moore <debi@sportenvironmental.com>
Cc: Dawn Howard <dhoward@claytonwilliams.com>
Subject: RE: Southwest Royalties, Inc - Malaga A 002

Debi,

As we discussed this morning, your request for an extension is approved to February 12, 2010. Please submit the site ranking information and a remediation/closure proposal, based on site delineation and site ranking, by this date. You may commence the delineation process upon arrival at the site on Wednesday.

If you have any questions or concerns, please contact me.

Mike Bratcher
NMOCD District 2

From: Debi Moore [mailto:debi@sportenvironmental.com]
Sent: Monday, January 11, 2010 4:18 PM
To: Bratcher, Mike, EMNRD
Cc: Dawn Howard
Subject: Southwest Royalties, Inc - Malaga A 002

Mike,

Please excuse the email request. I made an attempt to contact you this afternoon, but your office was closed for the day. In response to your attached request, please let this email serve as 48 hour notification of sampling to commence at 4pm (NM) on Wednesday, January 13th. The attached documentation is in regards to a release that was brought to our attention this afternoon. We would like to request an extension to today's deadline. We are available to sample sooner than 48 hours if the NMOCD approves. Please advise if this is a possibility.

In addition, a site ranking criteria form, denoting groundwater depth and other criteria necessary to determine the appropriate clean-up levels, is being compiled. The form will be emailed to your attention (in the morning) once accurate water well information is obtained. We will call your office first thing in the morning to discuss sampling timing and the potential for an extension to allow Sport Environmental time to properly sample and delineate the site.

Happy New Year! I hope you enjoyed your holidays.

Thanks,



DEBI SPORT MOORE, M.E., R.E.P.A

President

Sport Environmental Services, PLLC

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NMOCD Notified 11/16/2009

Site Information and Metrics

| | | | |
|---|---------|--|----------|
| SITE Malaga A 002 | | Assigned Site Reference # | |
| Company Southwest Royalties, Inc | | | |
| Street Address 6 Desta Drive, Ste 2100 | | | |
| Mailing Address 6 Desta Drive, Ste 2100 | | | |
| City, State, Zip Midland, Texas 79705 | | | |
| Representative Dawn M Howard | | | |
| Representative Telephone 432 688 3267 | | | |
| Telephone | | | |
| Fluid volume released (bbls) 5 BF | | Recovered (bbls) 5 BF | |
| >25 bbls Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days (Also applies to unauthorized releases >500 mcf Natural Gas) | | | |
| 5-25 bbls Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas) | | | |
| Leak, Spill, or Pit (LSP) Name Malaga A 002 | | | |
| Source of Contamination Slow packer leaking | | | |
| Land Owner, i.e., BLM, ST, Fee, Other Roxie L. Williams Trust, Margaret L. Fate, Trustee | | | |
| LSP Dimensions | | | |
| LSP Area | | | |
| Location of Reference Point (RP) | | | |
| Location distance and direction from RP | | | |
| Latitude 32.25256 | | | |
| Longitude 104.06332 | | | |
| Elevation above mean sea level | | | |
| Feet from North Section Line 660' | | | |
| Feet from West Section Line 660' | | | |
| Location - Unit or 1/4 | | Unit Letter D | |
| Location - Section 2 | | | |
| Location - Township 24S | | | |
| Location - Range 28E | | | |
| Surface water body within 1000' radius of site None | | | |
| Surface water body within 1000' radius of site | | | |
| Domestic water wells within 1000' radius of site None | | | |
| Domestic water wells within 1000' radius of site | | | |
| Agricultural water wells within 1000' radius of site None | | | |
| Agricultural water wells within 1000' radius of site | | | |
| Public water supply wells within 1000' radius of site None | | | |
| Depth from land surface to ground water (DG) <50' per NMOCD Artesia and NM OSE Water Rights (at 487 meter radius) | | | |
| Depth of Contamination (DC) estimated to be 5' | | | |
| Depth to ground water (DG - DC = D _{GW}) 50-5 = 45 ft | | | |
| 1. Ground Water | | 2. Wellhead Protection Area | |
| If Depth to GW <50 feet <i>20 points</i> | | If <1000' from water source, or, <200' from private domestic water source <i>20 points</i> | |
| If Depth to GW 50 to 99 feet <i>10 points</i> | | If >1000' from water source, or, >200' from private domestic water source <i>0 points</i> | |
| If Depth to GW >100 feet <i>0 points</i> | | | |
| Ground Water Score = 20 | | Wellhead Protection Area Score = 0 | |
| Site Rank (1+2+3) = 20 | | Surface Water Score = 0 | |
| Total Site Ranking Score and Acceptable Concentrations | | | |
| Parameter | >19 | 10 - 19 | 0 - 9 |
| Benzene ¹ | 10 ppm | 10 ppm | 10 ppm |
| BTEX ¹ | 50 ppm | 50 ppm | 50 ppm |
| TPH | 100 ppm | 1000 ppm | 5000 ppm |

¹100 ppm field VOC headspace measurement may be substituted for lab analysis

Analytical Report 359288

for

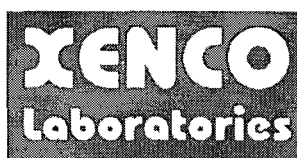
Sport Environmental Services, PLLC

Project Manager: Debi Moore

Southwest Royalties, Inc.

Malaga A 002

22-JAN-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code GA00046)

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code FL01152) Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code TX00158) Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code TX01468) Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code TX02613) Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code FL00449) Florida (E86240),

South Carolina (96031001), Louisiana (04154), Georgia (917)



22-JAN-10

Project Manager: **Debi Moore**
Sport Environmental Services, PLLC
502 North Big Spring Street
Midland, TX 79701

Reference: XENCO Report No: **359288**
Southwest Royalties, Inc.
Project Address

Debi Moore

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 359288. 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. 359288 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 359288



Sport Environmental Services, PLLC, Midland, TX
Southwest Royalties, Inc.

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| East-001 | S | Jan-20-10 11:45 | 10 ft | 359288-001 |
| South-001 | S | Jan-20-10 11:50 | 7 ft | 359288-002 |
| West-001 | S | Jan-20-10 11:55 | 7 ft | 359288-003 |



CASE NARRATIVE

Client Name: Sport Environmental Services, PLLC

Project Name: Southwest Royalties, Inc.

Project ID Malaga A 002
Work Order Number 359288

Report Date. 22-JAN-10
Date Received 01/20/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch LBA-790333 Petroleum Hydrocarbons, Total Recoverable (Spectrophoto Ir)
None

Batch: LBA-790374 Percent Moisture
None

Batch LBA-790386 Chloride in Soil by EPA 300
None

Batch LBA-790403 BTEX by EPA 8021
SW8021BM

Batch 790403, Benzene, Ethylbenzene, Toluene, m,p-Xylene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 359288-002, -001, -003.
The Laboratory Control Sample for m,p-Xylene, Toluene, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 790403, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 359210-002 S, 359210-002 SD.

SW8021BM

Batch 790403, Benzene, Ethylbenzene, Toluene, m,p-Xylene RPD was outside QC limits.
Samples affected are: 359288-002, -001, -003

Batch: LBA-790498 TPH by SW8015 Mod
None



Certificate of Analysis Summary 359288

Sport Environmental Services, PLLC, Midland, TX



Project Id: Malaga A 002

Contact: Debi Moore

Project Location:

Project Name: Southwest Royalties, Inc.

Date Received in Lab: Wed Jan-20-10 03 45 pm


Report Date: 22-JAN-10

Project Manager: Brent Barron, II

| <i>Analysis Requested</i> | <i>Lab Id</i> | 359288-001 | 359288-002 | 359288-003 | | | |
|--|------------------|-----------------|-----------------|-----------------|--|--|--|
| | <i>Field Id</i> | East-001 | South-001 | West-001 | | | |
| | <i>Depth</i> | 10- ft | 7- ft | 7- ft | | | |
| | <i>Matrix</i> | SOIL | SOIL | SOIL | | | |
| | <i>Sampled</i> | Jan-20-10 11 45 | Jan-20-10 11 50 | Jan-20-10 11 55 | | | |
| BTEX by EPA 8021 | <i>Extracted</i> | Jan-21-10 14 00 | Jan-21-10 14 00 | Jan-21-10 14 00 | | | |
| | <i>Analyzed</i> | Jan-21-10 14 32 | Jan-21-10 14 56 | Jan-21-10 15 19 | | | |
| | <i>Units/RL</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Benzene | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| Toluene | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| Ethylbenzene | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| m,p-Xylene | | BRL 0 0024 | BRL 0 0024 | BRL 0 0025 | | | |
| o-Xylene | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| Total Xylenes | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| Total BTEX | | BRL 0 0012 | BRL 0 0012 | BRL 0 0012 | | | |
| Chloride in Soil by EPA 300 | <i>Extracted</i> | Jan-21-10 21 23 | Jan-21-10 21 23 | Jan-21-10 21 23 | | | |
| | <i>Analyzed</i> | Jan-21-10 21 23 | Jan-21-10 21 23 | Jan-21-10 21 23 | | | |
| | <i>Units/RL</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Chloride | | 4740 206 | 2800 51 5 | 2640 52 4 | | | |
| Percent Moisture | <i>Extracted</i> | Jan-21-10 12 25 | Jan-21-10 12 25 | Jan-21-10 12 25 | | | |
| | <i>Analyzed</i> | Jan-21-10 12 25 | Jan-21-10 12 25 | Jan-21-10 12 25 | | | |
| | <i>Units/RL</i> | % RL | % RL | % RL | | | |
| Percent Moisture | | 18 3 1 00 | 18 5 1 00 | 19 9 1 00 | | | |
| Petroleum Hydrocarbons, Total Recoverable (Spectrophoto Ir) | <i>Extracted</i> | Jan-21-10 15 32 | Jan-21-10 15 32 | Jan-21-10 15 32 | | | |
| | <i>Analyzed</i> | Jan-21-10 15 32 | Jan-21-10 15 32 | Jan-21-10 15 32 | | | |
| | <i>Units/RL</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Total Petroleum Hydrocarbons (TPH) | | BRL 24 5 | BRL 24 5 | BRL 25 0 | | | |

This analytical report and the entire data package it represents has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 359288
Sport Environmental Services, PLLC, Midland, TX
Project Name: Southwest Royalties, Inc.



Project Id: Malaga A 002

Contact: Debi Moore

Date Received in Lab: Wed Jan-20-10 03 45 pm

Report Date: 22-JAN-10


Project Manager: Brent Barron, II

Project Location:

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 359288-001 | 359288-002 | 359288-003 | | | |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|--|--|--|
| | <i>Field Id</i> | East-001 | South-001 | West-001 | | | |
| | <i>Depth</i> | 10- ft | 7- ft | 7- ft | | | |
| | <i>Matrix</i> | SOIL | SOIL | SOIL | | | |
| | <i>Sampled</i> | Jan-20-10 11 45 | Jan-20-10 11 50 | Jan-20-10 11 55 | | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Jan-21-10 11 30 | Jan-21-10 11 30 | Jan-21-10 11 30 | | | |
| | <i>Analyzed</i> | Jan-22-10 12 04 | Jan-22-10 12 31 | Jan-22-10 12 58 | | | |
| | <i>Units/RL</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| C6-C12 Gasoline Range Hydrocarbons | | BRL 18 3 | BRL 18 3 | BRL 18 7 | | | |
| C12-C28 Diesel Range Hydrocarbons | | 145 18 3 | BRL 18 3 | BRL 18 7 | | | |
| C28-C35 Oil Range Hydrocarbons | | 19 2 18 3 | BRL 18 3 | BRL 18 7 | | | |
| Total TPH | | 164 18 3 | BRL 18 3 | BRL 18 7 | | | |

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit, therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting
- K** Sample analyzed outside of recommended hold time
- JN** A combination of the "N" and the "J" qualifier The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation

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| 9701 Harry Hines Blvd, Dallas, TX 75220 | (214) 902 0300 | (214) 351-9139 |
| 5332 Blackberry Drive, San Antonio TX 78238 | (210) 509-3334 | (210) 509-3335 |
| 2505 North Falkenburg Rd, Tampa, FL 33619 | (813) 620-2000 | (813) 620-2033 |
| 5757 NW 158th St, Miami Lakes, FL 33014 | (305) 823-8500 | (305) 823-8555 |
| 12600 West I-20 East, Odessa, TX 79765 | (432) 563-1800 | (432) 563-1713 |
| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |



Form 2 - Surrogate Recoveries

Project Name: Southwest Royalties, Inc.

Work Orders : 359288,

Project ID: Malaga A 002

Lab Batch #: 790403

Sample: 548205-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/21/10 12 37

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0327 | 0.0300 | 109 | 80-120 | |
| 4-Bromofluorobenzene | 0.0302 | 0.0300 | 101 | 80-120 | |

Lab Batch #: 790403

Sample: 548205-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/21/10 13 00

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0326 | 0.0300 | 109 | 80-120 | |
| 4-Bromofluorobenzene | 0.0298 | 0.0300 | 99 | 80-120 | |

Lab Batch #: 790403

Sample: 548205-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/21/10 14 09

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0268 | 0.0300 | 89 | 80-120 | |
| 4-Bromofluorobenzene | 0.0317 | 0.0300 | 106 | 80-120 | |

Lab Batch #: 790403

Sample: 359288-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/21/10 14 32

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0270 | 0.0300 | 90 | 80-120 | |
| 4-Bromofluorobenzene | 0.0335 | 0.0300 | 112 | 80-120 | |

Lab Batch #: 790403

Sample: 359288-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/21/10 14 56

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0.0271 | 0.0300 | 90 | 80-120 | |
| 4-Bromofluorobenzene | 0.0349 | 0.0300 | 116 | 80-120 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes



Form 2 - Surrogate Recoveries

Project Name: Southwest Royalties, Inc.

Work Orders : 359288,

Project ID: Malaga A 002

Lab Batch #: 790403

Sample: 359288-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/21/10 15 19

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0 0271 | 0 0300 | 90 | 80-120 | |
| 4-Bromofluorobenzene | 0 0332 | 0 0300 | 111 | 80-120 | |

Lab Batch #: 790403

Sample: 359210-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/21/10 16 05

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0 0303 | 0 0300 | 101 | 80-120 | |
| 4-Bromofluorobenzene | 0 0395 | 0 0300 | 132 | 80-120 | * |

Lab Batch #: 790403

Sample: 359210-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/21/10 16 28

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|----------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1,4-Difluorobenzene | 0 0313 | 0 0300 | 104 | 80-120 | |
| 4-Bromofluorobenzene | 0 0387 | 0 0300 | 129 | 80-120 | * |

Lab Batch #: 790498

Sample: 548278-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/10 10 44

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1-Chlorooctane | 115 | 100 | 115 | 70-135 | |
| o-Terphenyl | 50 8 | 50 2 | 101 | 70-135 | |

Lab Batch #: 790498

Sample: 548278-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/10 11 11

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------|------------------|-----------------|-----------------|-------------------|-------|
| Analytes | | | | | |
| 1-Chlorooctane | 105 | 99 8 | 105 | 70-135 | |
| o-Terphenyl | 47 4 | 49 9 | 95 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes



Form 2 - Surrogate Recoveries

Project Name: Southwest Royalties, Inc.

Work Orders : 359288,

Project ID: Malaga A 002

Lab Batch #: 790498

Sample: 548278-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/22/10 11 37

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1-Chlorooctane | 91.1 | 99.9 | 91 | 70-135 | |
| o-Terphenyl | 50.2 | 50.0 | 100 | 70-135 | |

Lab Batch #: 790498

Sample: 359288-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/22/10 12 04

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1-Chlorooctane | 95.1 | 99.9 | 95 | 70-135 | |
| o-Terphenyl | 52.2 | 50.0 | 104 | 70-135 | |

Lab Batch #: 790498

Sample: 359288-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/22/10 12 31

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1-Chlorooctane | 92.1 | 99.6 | 92 | 70-135 | |
| o-Terphenyl | 50.3 | 49.8 | 101 | 70-135 | |

Lab Batch #: 790498

Sample: 359288-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/22/10 12 58

SURROGATE RECOVERY STUDY

| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| 1-Chlorooctane | 92.7 | 100 | 93 | 70-135 | |
| o-Terphenyl | 51.0 | 50.0 | 102 | 70-135 | |

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes



Blank Spike Recovery



Project Name: Southwest Royalties, Inc.

Work Order #: 359288

Project ID:

Malaga A 002

Lab Batch #: 790386

Sample: 790386-1-BKS

Matrix: Solid

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Chloride in Soil by EPA 300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|------------------------|-----------------------|---------------------------------|-----------------------------|-------------------------|-------|
| Chloride | <0.420 | 10.0 | 9.36 | 94 | 75-125 | |

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Southwest Royalties, Inc.

Work Order #: 359288

Analyst: ASA

Date Prepared: 01/21/2010

Project ID: Malaga A 002

Date Analyzed: 01/21/2010

Lab Batch ID: 790403

Sample: 548205-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Benzene | <0.0010 | 0.1000 | 0.1144 | 114 | 0.1 | 0.1111 | 111 | 3 | 70-130 | 35 | |
| Toluene | <0.0010 | 0.1000 | 0.1156 | 116 | 0.1 | 0.1127 | 113 | 3 | 70-130 | 35 | |
| Ethylbenzene | <0.0010 | 0.1000 | 0.1157 | 116 | 0.1 | 0.1124 | 112 | 3 | 71-129 | 35 | |
| m,p-Xylene | <0.0020 | 0.2000 | 0.2376 | 119 | 0.2 | 0.2314 | 116 | 3 | 70-135 | 35 | |
| o-Xylene | <0.0010 | 0.1000 | 0.1220 | 122 | 0.1 | 0.1194 | 119 | 2 | 71-133 | 35 | |

Analyst: ASA

Date Prepared: 01/21/2010

Date Analyzed: 01/21/2010

Lab Batch ID: 790333

Sample: 790333-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| Petroleum Hydrocarbons, Total Recoverable (Spectrophoto Ir) | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| Total Petroleum Hydrocarbons (TPH) | <20.0 | 2500 | 2430 | 97 | 2500 | 2520 | 101 | 4 | 65-135 | 35 | |

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Southwest Royalties, Inc.

Work Order #: 359288

Analyst: BEV

Date Prepared: 01/21/2010

Project ID: Malaga A 002

Date Analyzed: 01/22/2010

Lab Batch ID: 790498

Sample: 548278-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH by SW8015 Mod | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|------------------------------------|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|
| Analytes | | | | | | | | | | | |
| C6-C12 Gasoline Range Hydrocarbons | <15.0 | 1000 | 993 | 99 | 998 | 908 | 91 | 9 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | <15.0 | 1000 | 786 | 79 | 998 | 881 | 88 | 11 | 70-135 | 35 | |

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Southwest Royalties, Inc.



Work Order #: 359288

Lab Batch #: 790386

Date Analyzed: 01/21/2010

QC- Sample ID: 359288-001 S

Reporting Units: mg/kg

Date Prepared: 01/21/2010

Batch #: 1

Project ID: Malaga A 002

Analyst: LATCOR

Matrix: Soil

| MATRIX / MATRIX SPIKE RECOVERY STUDY | | | | | | |
|--------------------------------------|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| Inorganic Anions by EPA 300 | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Analytes | | | | | | |
| Chloride | 4740 | 4900 | 9690 | 101 | 75-125 | |

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Southwest Royalties, Inc.

Work Order #: 359288

Project ID: Malaga A 002

Lab Batch ID: 790403

QC- Sample ID: 359210-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|----------------------------|----------|-------------------------|---------------------------|------|
| | | | | | | | | | | | |
| Benzene | <0.0012 | 0.1167 | 0.0348 | 30 | 0.1169 | 0.0656 | 56 | 61 | 70-130 | 35 | XF |
| Toluene | <0.0023 | 0.1167 | 0.0370 | 32 | 0.1169 | 0.0685 | 59 | 60 | 70-130 | 35 | XF |
| Ethylbenzene | 0.0062 | 0.1167 | 0.0380 | 27 | 0.1169 | 0.0671 | 52 | 55 | 71-129 | 35 | XF |
| m,p-Xylene | 0.0886 | 0.2333 | 0.1157 | 12 | 0.2338 | 0.1664 | 33 | 36 | 70-135 | 35 | XF |
| o-Xylene | 0.0663 | 0.1167 | 0.0786 | 11 | 0.1169 | 0.1017 | 30 | 26 | 71-133 | 35 | X |

Lab Batch ID: 790333

QC- Sample ID: 359288-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Petroleum Hydrocarbons, Total Recoverable (Spectrophoto Ir) | 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 |
|--|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|----------------------------|----------|-------------------------|---------------------------|------|
| | | | | | | | | | | | |
| Total Petroleum Hydrocarbons (TPH) | <24.5 | 3060 | 3080 | 101 | 3060 | 3090 | 101 | 0 | 65-135 | 35 | |

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

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

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



Sample Duplicate Recovery



Project Name: Southwest Royalties, Inc.

Work Order #: 359288

Lab Batch #: 790386

Date Analyzed: 01/21/2010

QC- Sample ID: 359288-001 D

Reporting Units: mg/kg

Date Prepared: 01/21/2010

Batch #: 1

Project ID: Malaga A 002

Analyst: LATCOR

Matrix: Soil

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Chloride in Soil by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Chloride | 4740 | 4790 | 1 | 20 | |

Lab Batch #: 790374

Date Analyzed: 01/21/2010

QC- Sample ID: 359350-001 D

Reporting Units: %

Date Prepared: 01/21/2010

Batch #: 1

Analyst: JLG

Matrix: Soil

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Percent Moisture | 9.74 | 9.51 | 2 | 20 | |

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes

BRL - Below Reporting Limit

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

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

Sampler Signature

e-mail debi@sportenvironmental.com

PO #

Report Format ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

359288

Special Instructions

Relinquished by Nick Williams, EC

Date _____

Time

Received by

Date _____

7 in

Relinquished by

Date _____

Time

Received by

Date _____

Tip

Relinquished by

Date _____

Time

Received by ELOT

Date _____

Time

Laboratory Comments:

Sample Container Used?

VOCs Free of Headspace?

Labels on containers

Custody seals on container(s)

Cooling coils on coolers:

☐ Sample Hand Delivered

by Sampler/Client Rep ?

by Courier? UPS

90291433
Temperature Log on Receipt

FedEx Lone Star
7-1 °C

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

Client: SPORT ENV.
Date/ Time: 1.20.10 15.45
Lab ID #: 359288
Initials: AL

Sample Receipt Checklist

| | | | | Client Initials |
|-----|--|------------|----|--------------------------|
| #1 | Temperature of container/ cooler? | <u>Yes</u> | No | <u>2.1</u> °C |
| #2 | Shipping container in good condition? | <u>Yes</u> | No | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | <u>Not Present</u> |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | <u>Not Present</u> |
| #5 | Chain of Custody present? | <u>Yes</u> | No | |
| #6 | Sample instructions complete of Chain of Custody? | <u>Yes</u> | No | |
| #7 | Chain of Custody signed when relinquished/ received? | <u>Yes</u> | No | |
| #8 | Chain of Custody agrees with sample label(s)? | <u>Yes</u> | No | ID written on Cont / Lid |
| #9 | Container label(s) legible and intact? | <u>Yes</u> | No | Not Applicable |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <u>Yes</u> | No | |
| #11 | Containers supplied by ELOT? | <u>Yes</u> | No | |
| #12 | Samples in proper container/ bottle? | <u>Yes</u> | No | See Below |
| #13 | Samples properly preserved? | <u>Yes</u> | No | See Below |
| #14 | Sample bottles intact? | <u>Yes</u> | No | |
| #15 | Preservations documented on Chain of Custody? | <u>Yes</u> | No | |
| #16 | Containers documented on Chain of Custody? | <u>Yes</u> | No | |
| #17 | Sufficient sample amount for indicated test(s)? | <u>Yes</u> | No | See Below |
| #18 | All samples received within sufficient hold time? | <u>Yes</u> | No | See Below |
| #19 | Subcontract of sample(s)? | Yes | No | <u>Not Applicable</u> |
| #20 | VOC samples have zero headspace? | <u>Yes</u> | 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



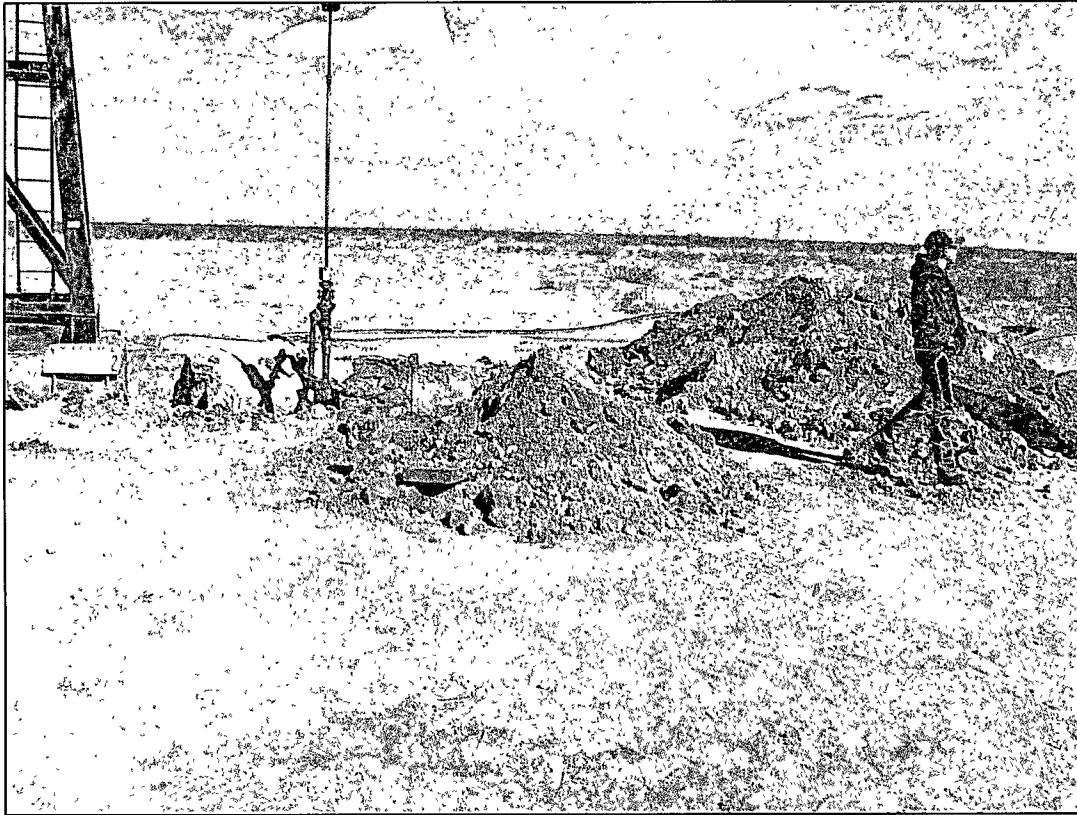
Sample Data Summary

p 1 of 1

Project Name: Southwest Royalties, Malaga A 002
Project Location: Eddy County, New Mexico

| | | | | | | | Analytical Results | | | | | | | | | | | | |
|---------------------|------------|---------------------|--------|--------------|----------------|----------------|---|-----------------------|-----------------------|--------------------|---------|---------|--------------|--------------|------------|---------------|------------|---------------------------|------------|
| | | | | | | | Methods: SW8015 Mod (TPH), EPA 8021B (BTEX), EPA 300/300.1 (Cl) | | | | | | | | | | | | |
| Sample ID | Lab ID | Latitude/ Longitude | Matrix | Sample Depth | Date Sampled | Date Received | Carbon Ranges C6-C12 (mg/kg dry) | Carbon Ranges C12-C28 | Carbon Ranges C28-C35 | Total Hydrocarbons | Benzene | Toluene | Ethylbenzene | Xylene (p/m) | Xylene (o) | Total Xylenes | Total BTEX | Chloride (Cl) (mg/kg wet) | % Moisture |
| Background Sampling | | | | | | | | | | | | | | | | | | | |
| East-001 | 359288-001 | | Soil | 10' | 1/19/2010 0 00 | 1/19/2010 0 00 | <18 3 | 145 | 19 2 | 164 | <0 0012 | <0 0012 | 0 0012 | <0 0024 | <0 0010 | <0 0010 | <0 0010 | 4740 | 18 30 |
| South-001 | 359288-002 | | Soil | 7' | 1/19/2010 0 00 | 1/19/2010 0 00 | <18 3 | <18 3 | <18 3 | <18 3 | <0 0012 | <0 0012 | 0 0012 | <0 0024 | <0 0010 | <0 0010 | <0 0010 | 2800 | 18 50 |
| West-001 | 359288-003 | | Soil | 7' | 1/19/2010 0 00 | 1/19/2010 0 00 | <18 3 | <18 7 | <18 7 | <18 7 | <0 0012 | <0 0012 | 0 0012 | <0 0025 | <0 0010 | <0 0010 | <0 0010 | 2640 | 19 90 |

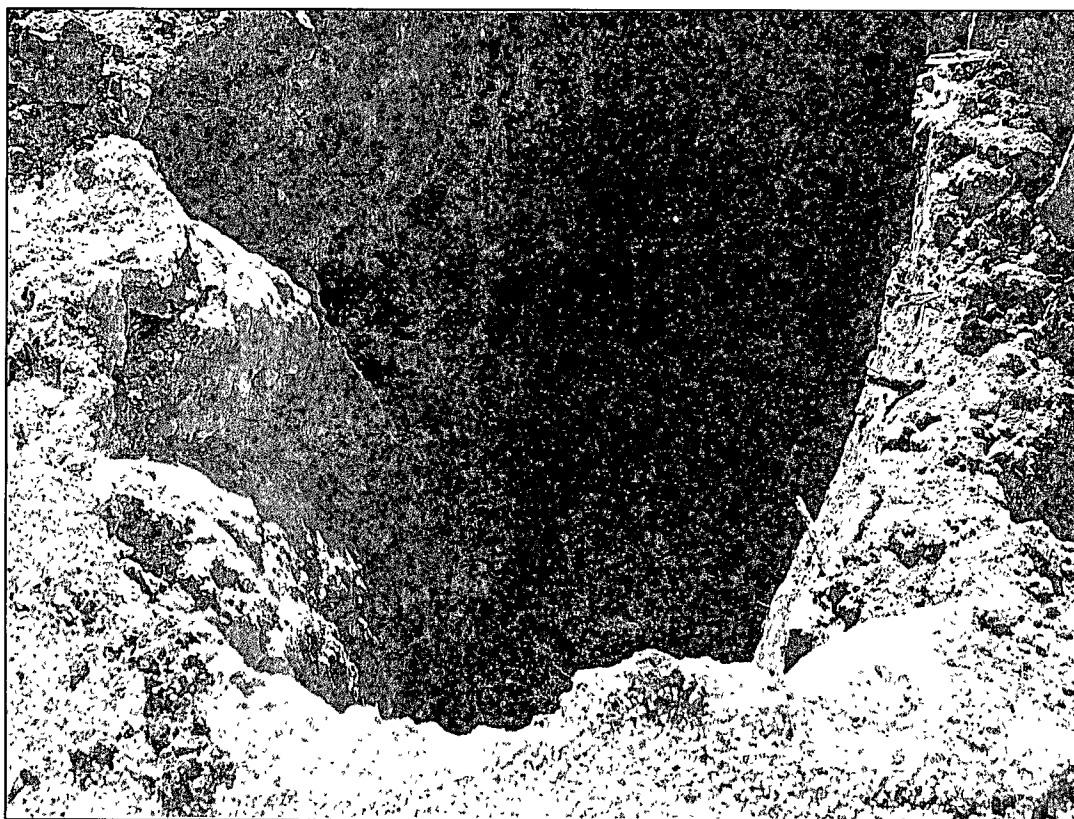
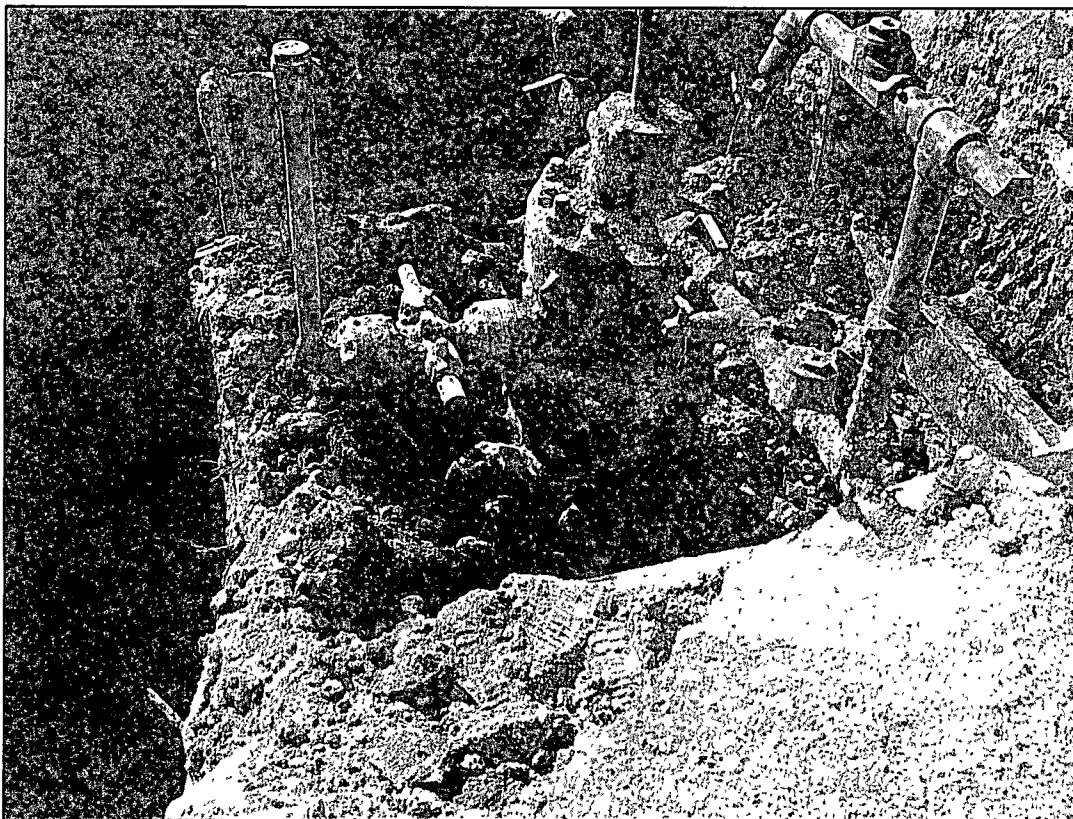
Southwest Royalties, Inc. – Malaga A #2
Excavation Site Photographs taken January 19, 2010
(p. 1 of 4)



Southwest Royalties, Inc. – Malaga A #2
Excavation Site Photographs taken January 19, 2010
(p. 2 of 4)



Southwest Royalties, Inc. – Malaga A #2
Excavation Site Photographs taken January 19, 2010
(p. 3 of 4)



Southwest Royalties, Inc. – Malaga A #2
Excavation Site Photographs taken January 19, 2010
(p. 4 of 4)

