

Highlander Environmental Corp.

Midland, Texas

October 11, 2006

RP# 1074

Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240

RE: Assessment and Work Plan for the Southwest Royalties, Inc., Farnsworth Federal B #5 Well, Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Southwest Royalties, Inc. (Southwest) to assess and to remediate the soil impact from a well blow out that occurred at the Farnsworth Federal B #5 Well and the Farnsworth Federal Tank Battery, located in Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico. The well site coordinates are N 32.05586°, W 103.20828°. The State of New Mexico C-141 (Initial) is included in Appendix C. The well and the tank battery location are shown on Figure 1.

Background

On August 23, 2006, the well apparently pressured up and the fluids flowed up the backside of the well. A gas pocket or air bubbles may have caused the connection to blow off the wellhead. At the time of the release, the oil tanks at the tank battery were full and the tanks overflowed. The volume released at the well and the tank battery was unknown. An estimated 125 barrels of oil was recovered at the well and 145 barrels at the tank battery.

The release at the well impacted an area estimated at 2 to 4 acres with the majority of the impact being overspray. At the tank battery, oil was observed on the pad, drive area and out into the pasture. The impacted areas are further discussed in the Assessment and Sample Results Section of the report. The spill locations are shown on Figures 2 and 3.

application pPACO62858447

Groundwater and Regulatory

The spill areas are located in Section 7, Township 26 South, Range 37 East. The USGS data base reported a depth to water at 196' in Section 7, Township 26 South, Range 37 East. The State of New Mexico Well Reports did not show any water wells in Section 7. However, there were water wells shown in Sections 29 and 35, Township 25 South, Range 37 East with average groundwater depths of approximately 219' to 185' below surface. In addition, published data, from the Geology and Groundwater Conditions in Southern New Mexico, shows wells in Section 2, 12 and 14, Township 26 South, Range 37 East with reported depths of 103', 102' and 100', respectively. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment and Sample Results Well #5

On August 24 2006, Highlander personnel inspected and sampled the spill areas. At Well #5, the majority of the surface staining was due to overspray northeast of the well. The impacted area where fluids accumulated north of the well measured approximately 85' x 180'. The impacted areas are shown on Figure 2. A total of four (4) auger holes were installed in this area to assess the impacted soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1. The laboratory reports are included in Appendix B.

On August 25, 2006, Highlander personnel applied a Micro-blaze product to the overspray area. The treatment was applied to the vegetation to wash oil residue from the foliage. This area will be inspected for further applications and growth of the vegetation.

Referring to Table 1, the hydrocarbon impact to the soils appears to be shallow. AH-2, AH-3 and AH-4 exceeded the TPH RRAL of 5,000 mg/kg at 0-1', however, the deeper samples at 1-1.5' were all below the RRAL. The BTEX concentrations did not exceed the RRAL. Chloride concentrations were elevated in the shallow soil samples at 0-1' ranging from 1,480 mg/kg to 8,510 mg/kg. The area of AH-3 did show a deeper impact to a depth of 2.0' below surface, with a chloride concentration decreasing from 12,100 mg/kg at 1.0' below surface to <5.0 mg/kg at 3.0' below surface.

Tank Battery

On August 25, 2006, Highlander personnel inspected and sampled the spill areas. The area north of the tanks did show oil staining where the tanks overflowed. The impacted area inside the facility fence line measured approximately 45' x 90'. The impacted area in the drive area measured approximately 20' x 150' and the area off the facility pad measured approximately 20' x 60'. The impacted areas are shown on Figure 3. A total of five (5) auger holes were installed in the impacted area to assess the soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1. The laboratory reports are included in Appendix B.

Referring to Table 3, AH-1, AH-3 and AH-4 exceeded the TPH RRAL at 0-1'. The TPH exceeded the RRAL to approximately 3.0' in the area of AH-2. BTEX concentrations did not exceed the RRAL. The chloride detected in the auger holes did not show a significant impact to the Site. The chlorides in the shallow soils 0-1' ranged from 369 mg/kg to 523 mg/kg. The deeper samples showed a declining chloride with depth, with the exception of AH-3 where the chloride concentration remained the consistent approximately 500 mg/kg.

Work Plan

Well #5

The hydrocarbon impact at the Site is limited to the shallow soils at 0-1' below surface. Chloride concentrations were elevated to depths ranging from 1'-3' below surface. To properly remediate the impacted area, the soils with levels exceeding the RRAL for TPH and elevated chloride will be removed and hauled to Sundance Services for disposal. Once removed, the area will be backfilled with clean fill material. In addition, the overspray areas will me monitored for growth or for additional Micro-Blaze treatments.

Tank Battery

The hydrocarbon impact in the area is limited to 1'-3' below surface. Based on the results, the chloride concentrations do not appear to an environmental concern. The areas exceeding the TPH RRAL at 1-3' will be excavated and blended below the RRAL. Confirmation samples will be collected from the remediated soils (stockpile) for evaluation. Once below the RRAL, the soil will either be placed back into the excavation or used as dike material at the facility.



Once completed, the results of the remedial activities, along with recommendations for further investigation or remediation, if any, will be submitted to the NMOCD. If you require any additional information or have any questions or comments, please call.

Highlander Environmental Corp.

Ike Tavarez, P.G.

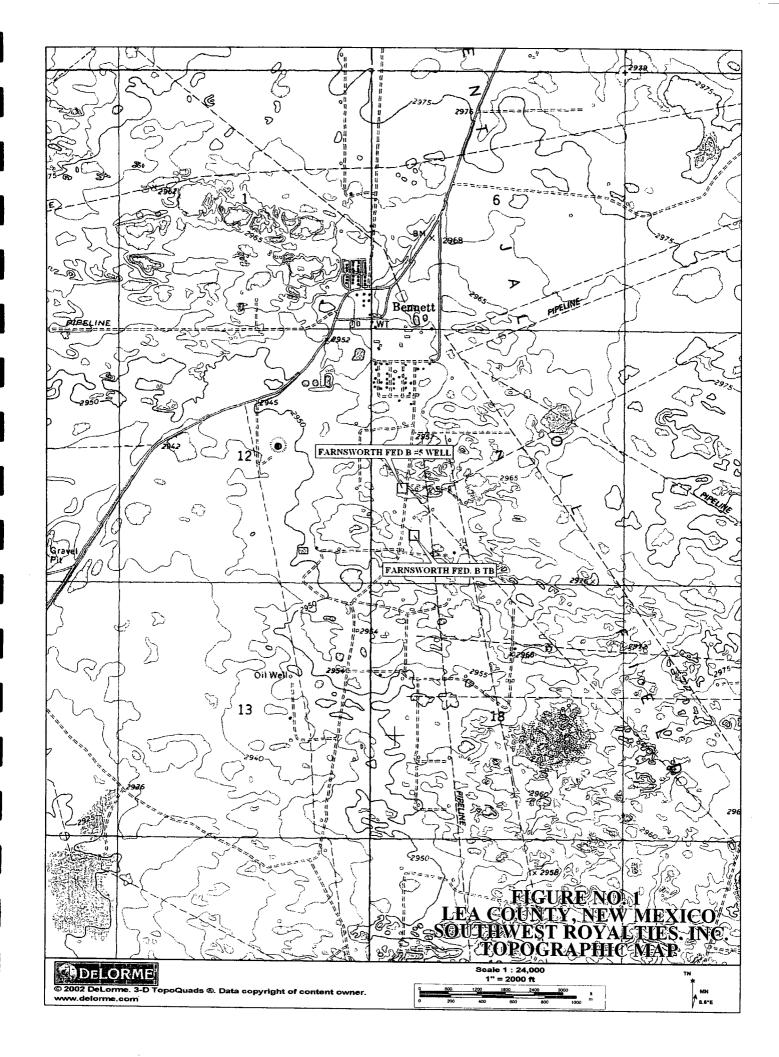
Project Manager/Senior Geologist

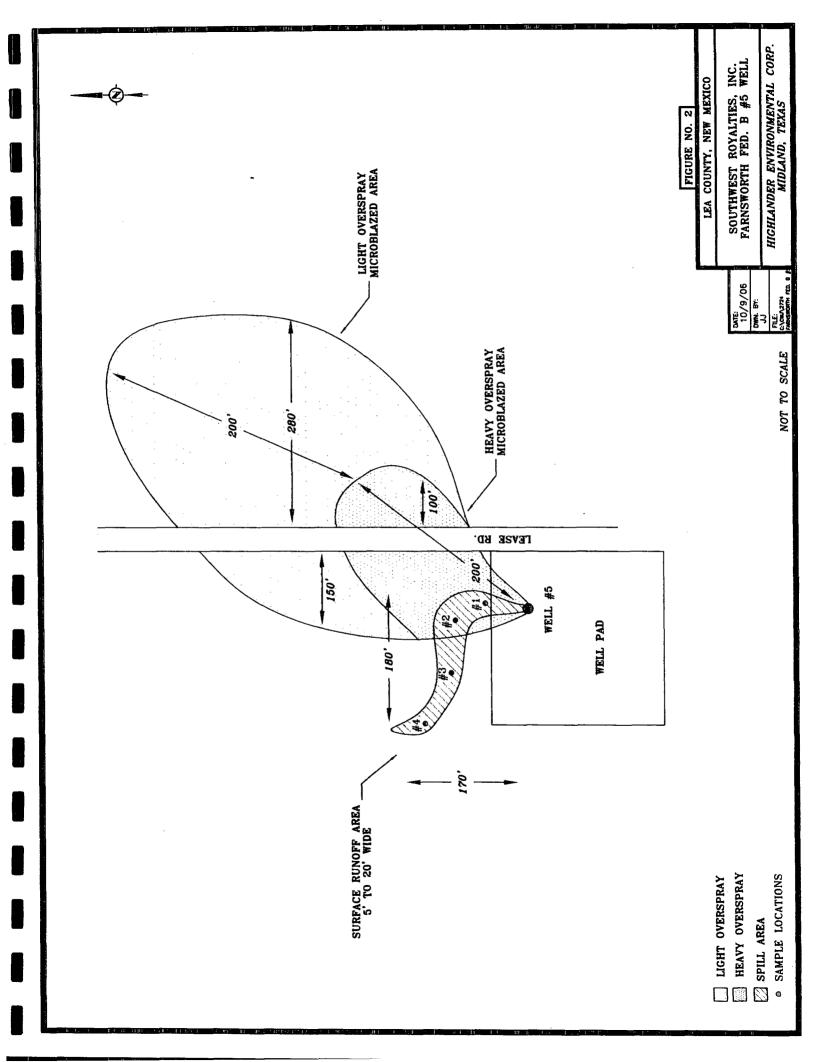
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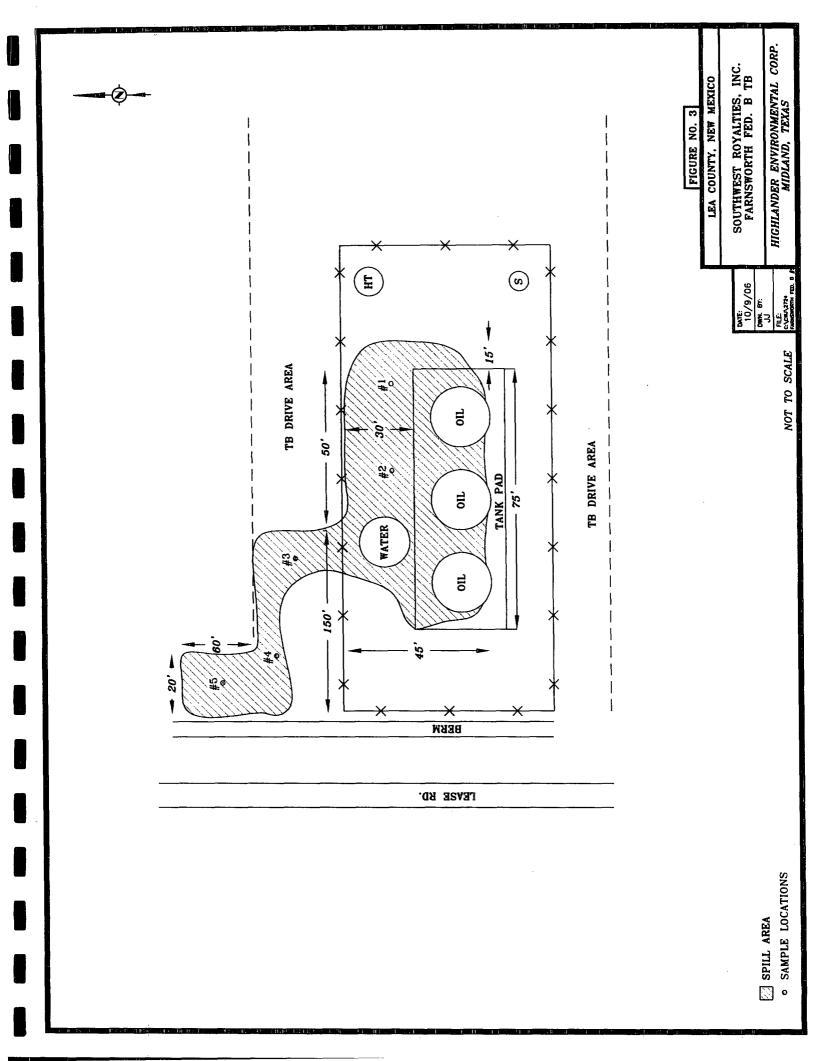
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Highlander Environmental Corp.

FIGURES







TABLES

| | | Τ | T | Т | _ | | | -7 | -7 | | | -7 |
|--------------------------|-----------|-----------|-----------|-----------|---|-----------|-----------|----------------|-----------|-----------|-----------|----|
| Chloride (mg/kg) | 2540 | 273 | 6,890 | 406 | | 8,510 | 12,100 | 3,200 | Ş | 1,480 | 8.34 | |
| (mg/kg) | 0.113 | <0.025 | 1.46 | <0.025 | | 0.808 | <0.025 | • | • | 1.31 | <0.025 | |
| Xylene (m/p) (mg/kg) | 0.289 | <0.025 | 3.28 | <0.025 | | 1.92 | <0.025 | 1 | 1 | 3.63 | <0.025 | |
| Ethlybenzene (mg/kg) | 0.114 | <0.025 | 1.26 | <0.025 | | 0.724 | <0.025 | , | | 1.30 | <0.025 | |
| Toluene (mg/kg) | 0.059 | <0.025 | 1.58 | <0.025 | | 0.992 | <0.025 | | • | 1.83 | <0.025 | |
| Benzene (mg/kg) | <0.05 | <0.025 | 0.205 | <0.025 | | 0.113 | <0.025 | | | 0.225 | <0.025 | |
| Total | 1,650 | 1,250 | 24,700 | 621 | | 9.280 | <10 | | | 28,700 | 604 | |
| C12-C28 C28-C35 | 178 | 277 | 1,550 | 155 | | 665 | <10 | | | 1,670 | 129 | |
| C6-C12 C12-C28 C | 1.270 | 973.0 | 18,300 | 466.0 | | 6.650 | <10 | | - | 21.100 | 475.0 | |
| C6-C12 | 205 | <50 | 4,810 | <50 | | 1 970 | <10 | | | 5.960 | <50 | |
| Sample Depth (ft) | 0-1.0 | 1-1.5 | 0-1.0' | 1-1.5 | | 0-1 0' | 1-1 5 | 2.2.5 | 3-3.5 | 0-1-0 | 1-1.5 | |
| Date Sample Sample C-C12 | 8/24/2006 | 8/24/2006 | 8/24/2006 | 8/24/2006 | | 8/24/2006 | 8/24/2006 | 8/24/2006 | 8/24/2006 | 8/24/2006 | 8/24/2006 | |
| Sample | 2 | | AH-2 | | | AH-3 | C-TIV | | | A H-4 | | |

(-) Not Analyzed

| | | | | | | <u> </u> | | | | , | | | | | | | T | <u> </u> | <u> </u> | - T | | |
|------------|------------|-----------|-----------|-----------|-----------|----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|--|
| Chloride | (ga gan) | 429 | 62 | 40 | 43.8 | | 408 | 176 | 81.9 | 26 | 41 | 523 | 541 | 508 | 369 | 36.3 | 45.5 | | 244 | 47.5 | 197 | |
| Xylene (0) | (mg/kg) | 0.103 | <0.025 | | | | 0.45 | ' | - | <0.025 | | <0.025 | <0.025 | | 2.04 | <0.025 | , | | 1.17 | <0.025 | 1 | |
| 6 | (mg/kg) | 0.365 | <0.025 | | | | 1.76 | - | | <0.025 | | 0.0463 | <0.025 | | 9.05 | <0.025 | - | | 3.08 | <0.025 | T | |
| e | (mg/kg) | 0.0839 | <0.025 | | | | 0.371 | - | ł | <0.025 | , | <0.025 | <0.025 | 1 | 2.55 | <0.025 | 1 | | 1.49 | <0.025 | - | |
| | (mg/kg) | 0.079 | <0.025 | | | | 0.589 | • | • | <0.025 | | <0.025 | <0.025 | | 3.94 | <0.025 | ı | | 2.09 | <0.025 | 1 | |
| Benzene | (mg/kg) | <0.025 | <0.025 | | | | 0.0435 | | I | <0.025 | | <0.025 | <0.025 | | 0.762 | <0.025 | | | 0.340 | <0.025 | - | |
| | Total | 14,600 | 317 | 1,320 | | | 23,800 | 20,500 | 7,790 | 773 | | 5,280 | <10 | | 14,800 | 281 | • | | 2,130 | <10 | , | |
| PH (mg/kg) | C28-C35 | 1,910 | 78.3 | 285 | | | 3,160 | 3,400 | 1.300 | 243 | , | 1.010 | <10 | | 963 | 73 | 3 | | 108 | <10 | | |
| H E | C12-C28 | 12,300 | 239 | 1,040.0 | | | 19,100 | 16,900 | 6.330 | 530 | 1 | 4.220 | <10 | , | 10,300 | 208 | | | 1,460 | <10 | , | |
| | C6-C12 | 379 | <10 | <50 | | | 1,590 | 160.0 | 163.0 | <50 | | 50.9 | <10 | | 3,540 | <10 | | | 560.0 | <10 | , | |
| Sample | Depth (ft) | 0-1.0 | 1-1.5 | 2-2.5 | 3-3.5 | | 0-1.0' | 1-1.5 | 2-2.5 | 4-4.5 | 5-5.5 | 0-1.0' | 1-1.5 | 2-2.5 | 0-1.0' | 1-1.5 | 2-2.5 | | 0-1.0' | 1-1.5 | 2-2.5 | |
| Date | Sampled | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | 8/25/2006 | | 8/25/2006 | 8/25/2006 | 8/25/2006 | |
| Sample | D. | I-HA | | | | | AH-2 | | | | | AH-3 | | | AH-4 | | | | AH-5 | | | |

(-) Not Analyzed

i.

APPENDIX A

Groundwater Data

Southwest Royalties Farnsworth Fed #5 Average Depth to Groundwater (ft)

| | 25 Sc | outh | 36 | | |
|--------------|-------|------|------------------|------------|----|
| 6 295 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 180 | 11 | 12 |
| 18 | 17 | 16 | 15 120 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 53.7 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | 25 Sc | outh | 37 | East | |
|-------|--------------|--------------|--------------|---------------|--------------|
| 6 | 5 | 4 | 3 | 2 | 1 |
| | | | | | 60 |
| 7 | 8 | 9 | 10 50 | 11 | 12 |
| 18 | 17 62 | 16 | 15 | 14 | 13 73 |
| 51 | | | 59.2 | | 81 |
| 19 44 | 20 65 | 21 | 22 | 23 | 24 |
| 62 | 34 | | 26 | | 255 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| | 219 | | | 75 | 55 |
| 31 | 32 | 33 86 | 34 | 35 185 | 36 |

| 25 Soi | uth | 38 | Eas | t |
|--------|-----|----|-------------|----|
| 6 | 5 | | 4 | 7 |
| 60 | | | | |
| 7 | 8 | | 9 95 | |
| | | | 88 | |
| 18 | 17 | | 16 | |
| 58 | | | | |
| 19 | 20 | 78 | 21 | 87 |
| 69 | | | | |
| 30 | 29 | 51 | 28 | |
| 31 | 32 | | 33 | |

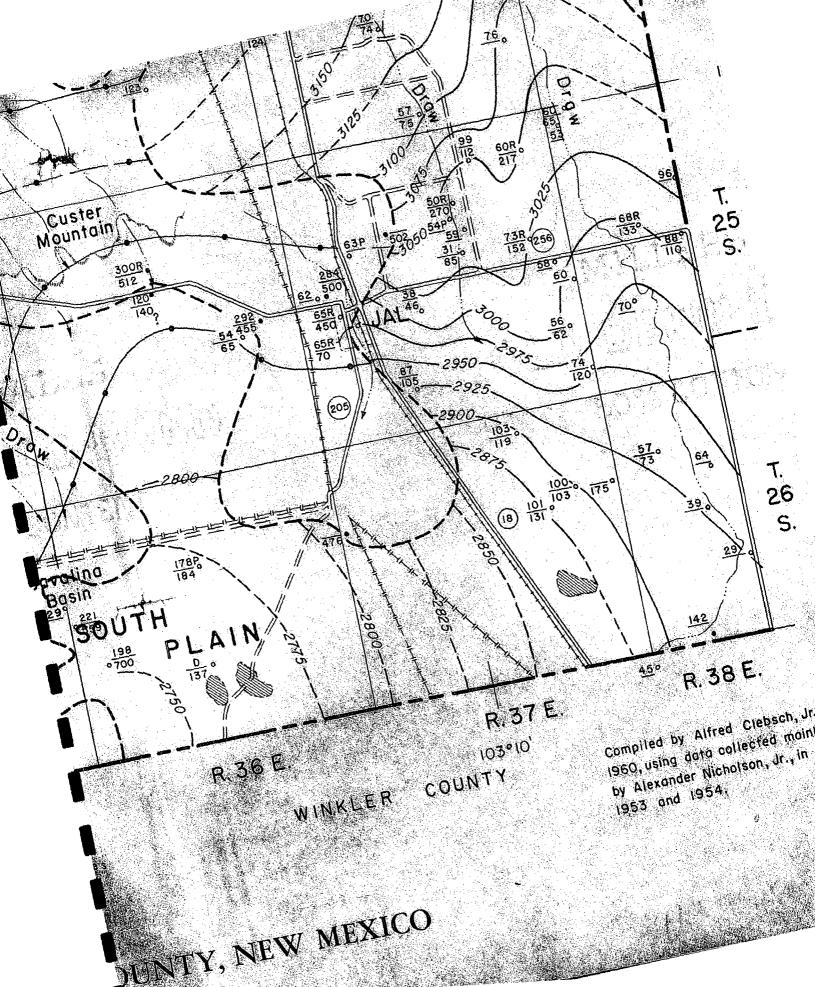
| _ | 26 Sc | outh | 36 | East | |
|------------------|-------|---------------------|----|-------------------|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 175 177 | 10 | 11 | 12 |
| 18 220 | 17 | 16 | 15 | 14 | 13 |
| 19 198 | 20 | 21 | 22 | 23 1 51 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

| | 26 Sc | outh | 37 | East | |
|--------|--------------|-------------|-----|---------------|--------------|
| 6 | 5 | 4 | 3 | 2 100 | 1 |
| | | | | 103 | |
| 7 SITE | 8 | 9 85 | 10 | 11 | 12 97 |
| 196 | | | | | 102 |
| 18 | 17 | 16 | 15 | 14 100 | 13 |
| | | | | 95 | |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 185 | | | | | |
| 30 | 29 86 | 28 | 27 | 26 | 25 |
| | | | 120 | | |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | | | | | |

| 2 | 6 | So | uth | - 38 | East |
|---|---|----|-----|------|------|
| | | | | | |

| | | Luoi |
|----|----|------|
| 6 | 5 | 4 |
| 7 | 8 | 9 |
| 18 | 17 | 16 |
| 19 | 20 | 21 |
| 30 | 29 | 28 |
| 31 | 32 | 33 |

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)



| TABLE 6. RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued) | | | | | Remarks | Dollarhide Gasoline Plant well 2. | ı | I | I | l | Chemical analysis in table 8. Located | TELEVISION OF TOTAL | [| Ĺ | I | Chemical analysis in table 8. | MWP | Yield 453 gpm. Gravel packed. WBZ | 275-300, 400-465, 500-530 feet. | Yield 408 gpm. Gravel packed. WBZ | 270-280, 400-480, 550-600, 670-680 | feet. | ı | ı | Jal Plant I, well I. | | Cased shothole. | WBZ 125-150 feet. EY 68 gpm. | Cased shothole. | ł | ı | ı | Cased shothole. | ł |
|---|-------------|-----------|----------|---------------|----------|-----------------------------------|--------------|---------|-----------------|-----------------|---------------------------------------|---------------------|-----------------|-----------------|-------------|-------------------------------|---------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|-------|----------|--------------|----------------------|---------|-----------------|------------------------------|-----------------|--------------|---------|---------|-----------------|---------|
| MEX. | | | | Use of | water | In | s | Z | D,S | z | s | v | | | 'n | s | D,S | 4 | | ዾ | | | z | s | U,nI | z | z | i | z | z | s | s | z | z |
| ΓY, N. | | | | Method Use of | of lift | 1 | Lw | Lw | Ľ | z | Lw | T ur | | į, | ۲M | Ľ | Lw | Te(?) | | Te(?) | | | z | Lw | Te T | z | z | ı | z | Z | `Lw | Ľw | z | z |
| COUNT | | Surface | diam- | eter | of wells | 1 | 2 | 9 | ł | 9 | 6(?) | 1 | ų | | x | - | 2 | 24 | | 24 | | | 11 | 80 | 8548 | 912 | റ | ı | 6 0 | 81⁄2 | 61⁄2 | 512 | 6 7 | 26 |
| V LEA | | | Year | com- | pleted | ł | ι | ł | ι | ι | ι | ļ | ļ | | l | ι | l | 1960 | | 1960 | | | I | 1937 | 1937 | ł | l | 1944 | (| ۱ | ł | ł | ł | • |
| DUTHER | Water level | | Date | meas- | ured | 1952 | 2-12-53 | 2-15-53 | 7-23-54 | 7-23-54 | ł | 7.96.54 | 7-96-54 | | 4G-62-1 | 12-12-58 | 12-12-58 | 3-17-60 | | 1 | | | 12-11-58 | 2-16-53 | I | 2-16-53 | 2-17-53 | ł | 2-17-53 | 2-24-53 | 2-24-53 | 2-24-53 | 2-13-53 | 2-13-53 |
| TS IN SC | Wate | Depth be- | low land | surface | (feet) | 68 | 87.7 | 6.99 | 180 | 102.8 | 1 | 106.6 | 7.07 | | 141.9 | 229.1 | 177.8 | 220.8 | | 198.0 | | | Dry | 103.4 | , I | 102.3 | 6.66 | 1 | 100.6 | 57.1 | 64.5 | 39.4 | 29.0 | 142.4 |
| OF WEI | | | Altitude | of well | (feet) | 3,061 | 3,103 | 3,040 | 3,140 | 3,315 | 3,315 | 8 9RD | 970 | | 3,330 | 2,990 | 2,940 | 2,981 | | 2,950 | | | 2,900 | 3,000 | 2,960 | | | | 2,985 | | | 2,975 | 2,955 | 2,950 |
| CORDS | | | Depth | of well | (feet) | 133 | 110 | I | 253 | 180 | ł | ; | \c/U06 | | 300 | I | 184M | 559 | | 200 | | | 137(?) | 119 | 476 | ł | 103 ± N | 175 | 131M | 73 | 99 | 1 | I | 1 |
| E 6. RI | | | | | Aquifer | To(?) | To | Qal | | | Qal | (0160 | 1 | | ١r | Qal | Qal | Qal | | Qal | | | ł | Qal(?) | Ľ. | Qal | Qal | Qal | Qal | Qal | Qal | Qal | Qal | Tr(?) |
| TABL | | | | | Owner / | Pure Oil Co. | Tom Linebury | 1 | Battle Ax Ranch | W. D. Dinwiddie | do. | ł | Rattle Av Danch | Thinks we among | 1 | t | Frank Antheys | City of Jal | | do. | | | I | Clyde Cooper | EPNG | I | I | Humble Oil Co. | I | Tom Linebury | do. | do. | do. | do. |
| | | | | Location | No. | 25.38.19.342 | 21.121 | 29.131 | 26.32.21.322 | 26.33.3.444 | 3.444a | 0 448 | 99 499 | | 20.34.0.213 | 26.35.13.222 | 26.36.9.440 | 18.311 | | 19.233 | | | 21.443 | 26.37.2.133 | 7.331 | 12.314 | 12.331 | 12.441 | 14.122 | 26.38.7.244 | 8.444 | 17.414 | 21.344 | 32.141 |

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NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

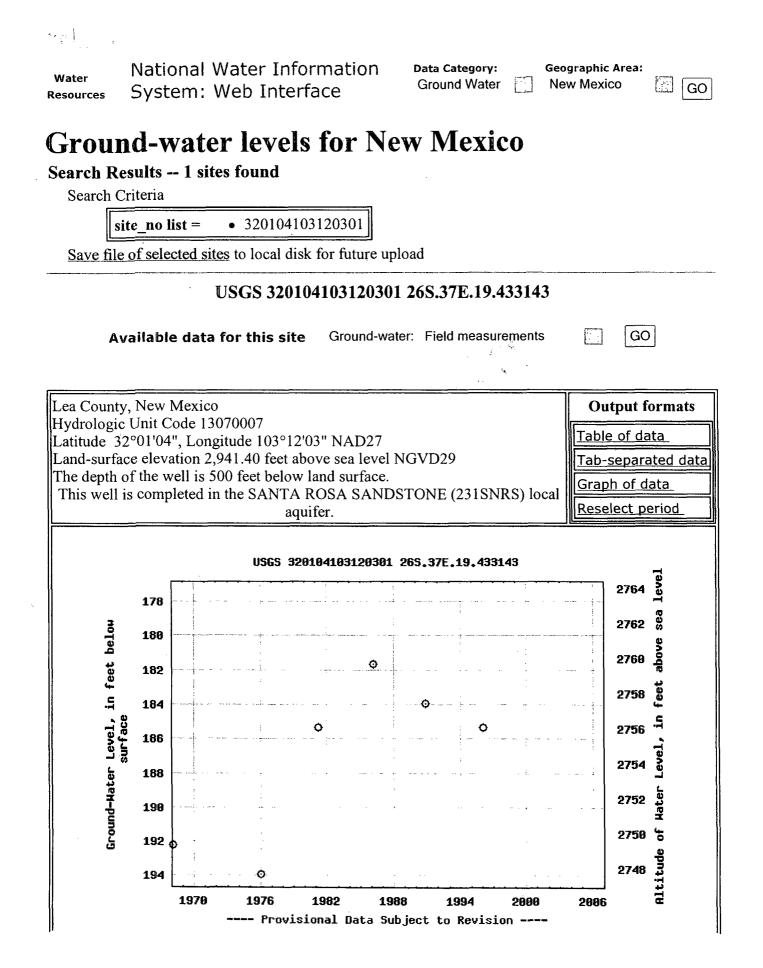
GROUND WATER

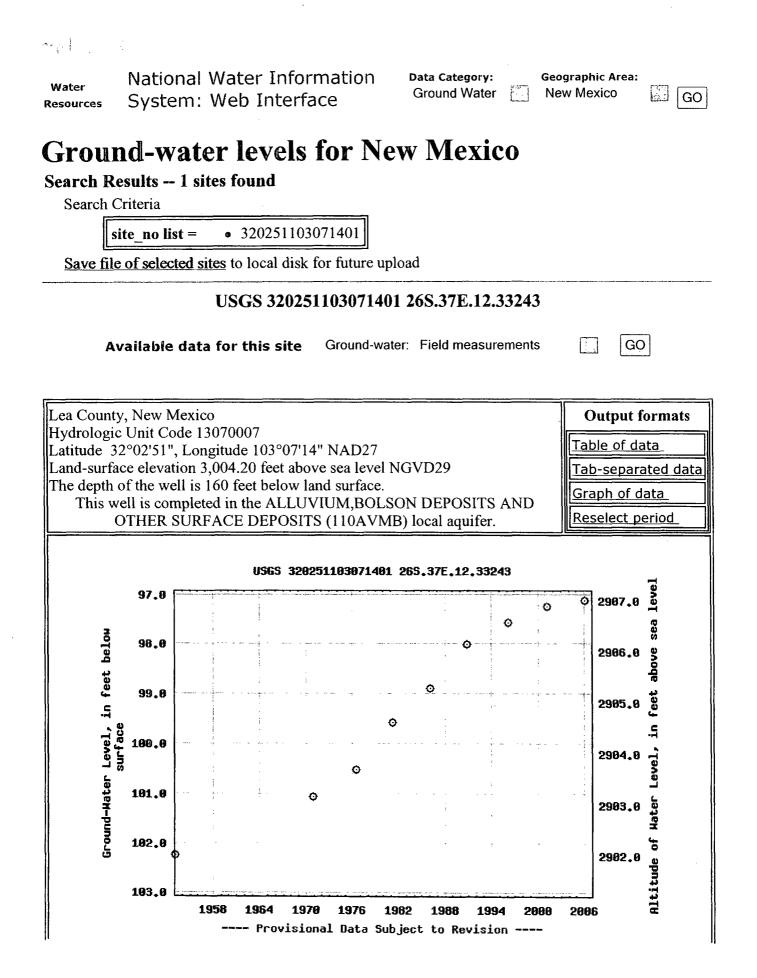
TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX. Explanations of symbols are included in the headnotes of Table 6. Surface Water level Depth be-

J

| L | EA. | • C | ют | IN' | ГΥ | | | | | | | | 1 |
|----------|----------|------------------------|--------------------|---------------|------------|-----------|-------------|------------|----------------|---------------------|----------------------|-------------------------|---|
| | | Remarks | | ł | 1 | | I | 1 | 1 | I | | 1 | |
| | Use of | water | | Z | s | | s | s | 1 | D,S | | Z | |
| | Method | of lift | | Lw | Lw | | Ľw | Ľ | I | Lw | | Z | |
| diam. | eter | of wells of lift water | | 9 | I | | I | 61⁄2 | 1 | I | | 9 | |
| Year | сощ- | pleted | | 1 | I | | 1 | I | I | t | | 1 | |
| | meas- | | ſex. | 40.8 12- 9-53 | 12-9-53 | Tex. | 7-28-40 | 10-9-53 | I | 10-15-53 | Tex. | 45.0 2-13-53 | |
| low land | surface | (feet) | Gaines County Tex. | 40.8 | 35.1 | s County, | 79.4 | 72.4 | Dry | 3,305 74.1 10-15-55 | Winkler County, Tex. | 45.0 | |
| Altitude | of well | (feet) | Gaine | 3,545 | 3,485 | Andrew | 3,510 | 3,478 | 3,410 | 3,305 | Winkle | 2,940 | |
| Depth | of well | (feet) | | 50(?) | 1 | | 82 | 81 | 215 | 80 | | 1 | |
| | | Aquifer | | To | ł | | To(?) | To . | 1 | To | | Qal | |
| | | Owner / | | I | Greenwood | | H. O. Sims | do. | Humble Oil Co. | M. L. Goins | | C-22.6 Tom Linebury Qal | |
| | Location | No. | | A-12.25.341 | A-28.3.413 | | A-29.17.320 | A-39.4.420 | A-39.14.111 | A-40.16.330 | | C-22.6 | |

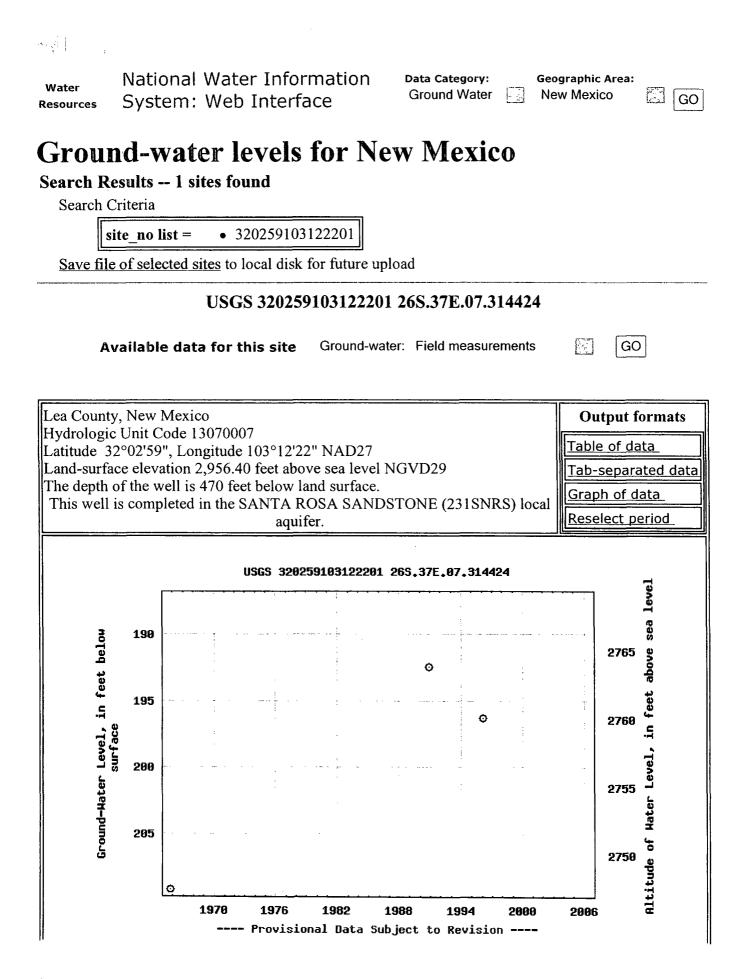
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http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=320251103071401&

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| Α, | | 1 | |
|----|---|---|--|
| | 7 | : | |

Water Resources

National Water Information System: Web Interface

| Data Category: | e |
|----------------|---|
| Ground Water | |

Geographic Area: New Mexico

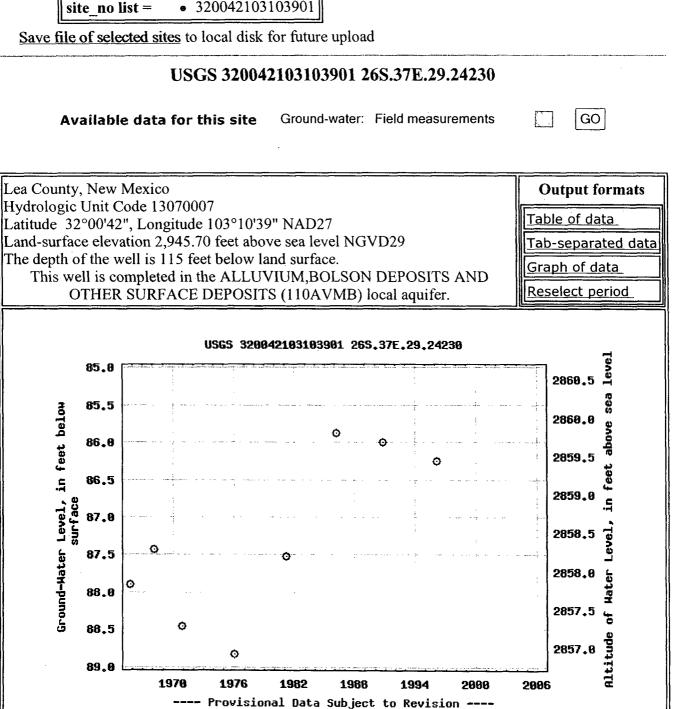
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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

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Water Resources

National Water Information System: Web Interface

Geographic Area: New Mexico

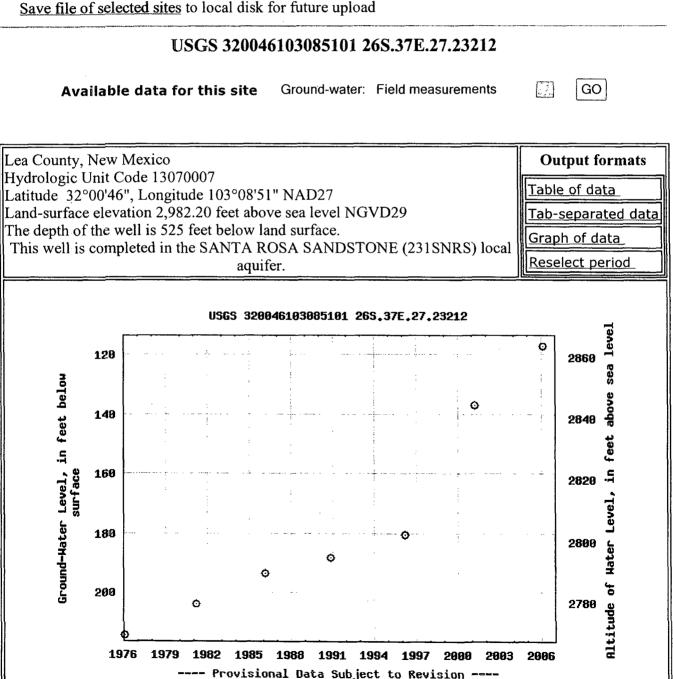
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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = 320046103085101



Page 1 of 2

Water No Resources Sy

National Water Information System: Web Interface

| Data Category: | Geog |
|----------------|------|
| Ground Water | Nev |

eographic Area: Iew Mexico



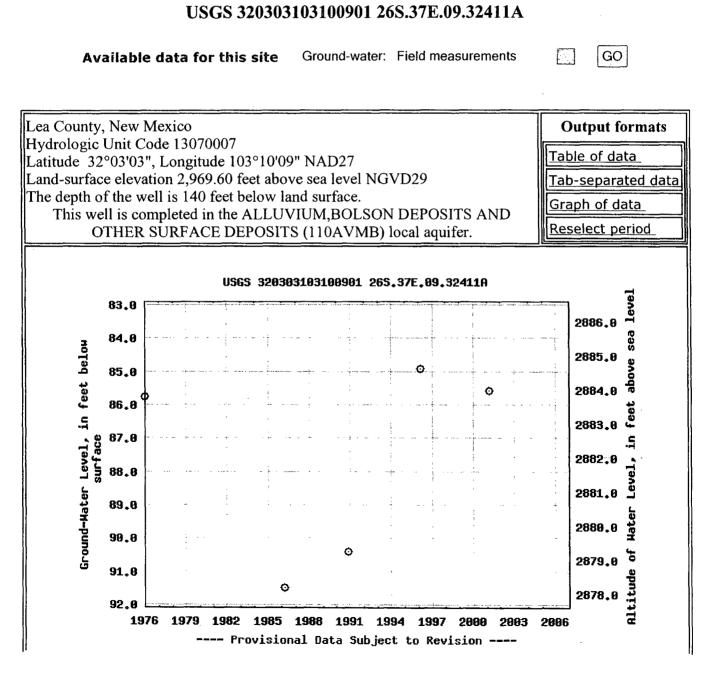
Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = • 320303103100901

Save file of selected sites to local disk for future upload



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Water Resources

National Water Information System: Web Interface

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| Ground Water | |

Geographic Area: New Mexico

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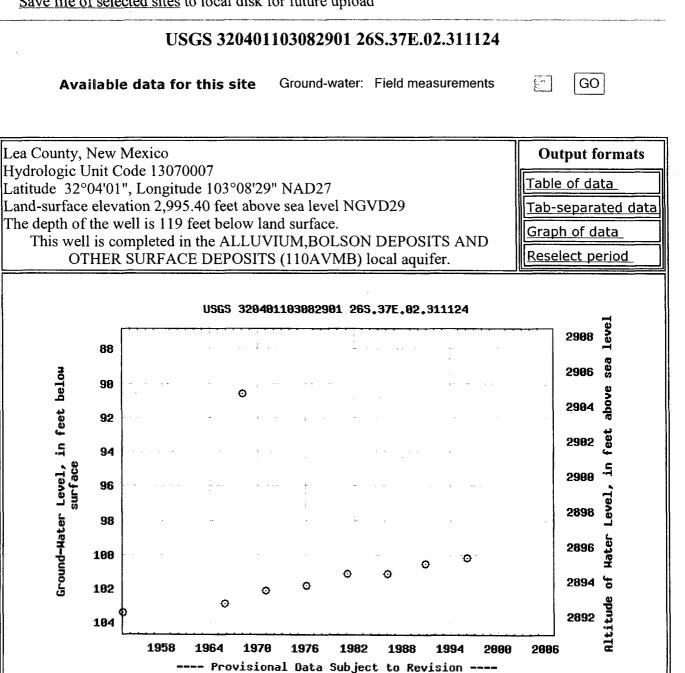
Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = 320401103082901

Save file of selected sites to local disk for future upload

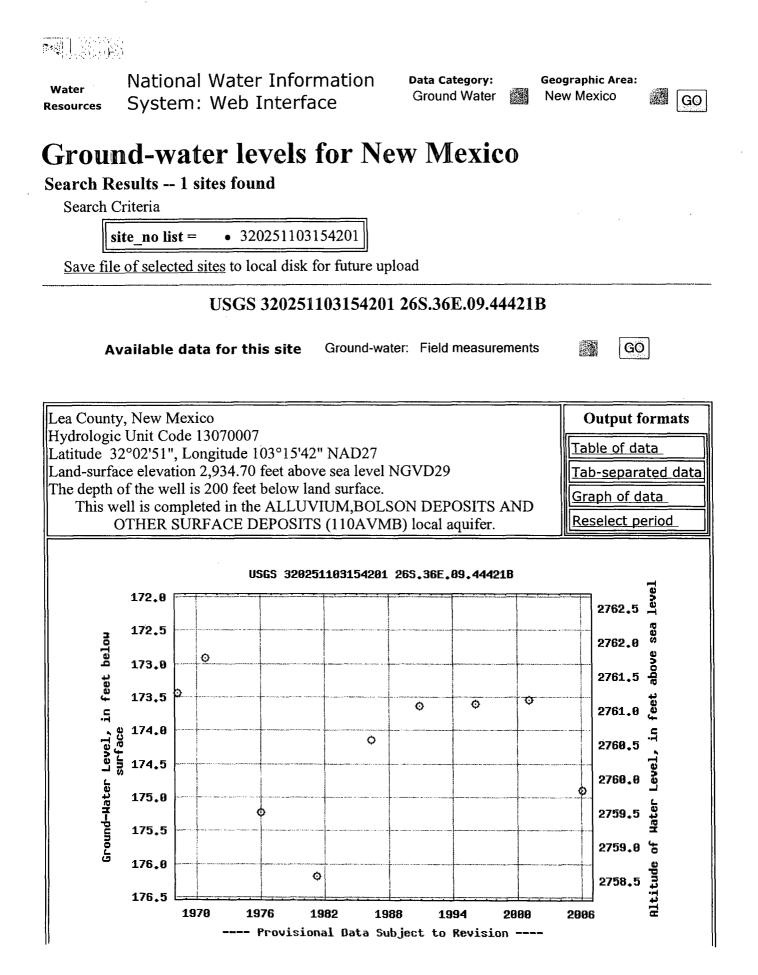


| Water esources | | ••••• | er Information Interface | Data Category: Ground Wate | | Geographic New Mexic | |
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| | | | S 32014910313420 | - | 222322 | 2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| A | vailabl | e data for t | his site Ground-wa | ater: Field measu | rements | | GO |
| Lea Count | | Mexico Code 1307000 |)7 | | | Out | tput formats |
| i yui ologi | | | | | | 101 | |
| Latitude 3 | 82°01'49 | ", Longitude | 103°13'42" NAD27 | NGVD20 | | | of data |
| Latitude 3 Land-surfa The depth | 32°01'49 ace elev of the v | 9", Longitude ation 2,925.8 vell is 200 fee | 103°13'42" NAD27 0 feet above sea level et below land surface. | | | Tab-s | separated da |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co | 9", Longitude ation 2,925.8 vell is 200 fee ompleted in th | 103°13'42" NAD27 0 feet above sea level | SON DEPOSITS | | <u>Tab-s</u> <u>Grap</u> l | |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co | 9", Longitude ation 2,925.8 vell is 200 fee ompleted in th | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | separated da h of data |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co | 9", Longitude ation 2,925.8 vell is 200 fee ompleted in th | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOL | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | separated da h of data |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co OTHER | 9", Longitude ation 2,925.8 vell is 200 fee ompleted in th | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | eparated da h of data ect period |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co OTHER 142 144 | 9", Longitude ation 2,925.8 vell is 200 fee ompleted in th | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | ect period |
| Latitude 3 Land-surfa The depth This v | 32°01'49 ace elev of the v vell is co OTHER 142 144 146 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | 2788 ag |
| Latitude 3 Land-surfa The depth This w | 32°01'49 ace elev of the v vell is ca OTHER 142 144 146 148 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | ect period |
| Latitude 3 Land-surfa The depth This w | 32°01'49 ace elev of the v vell is co OTHER 142 144 146 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS IB) local aquifer | | <u>Tab-s</u> <u>Grap</u> l | eparated da h of data ect period 2782 8 2788 8 2788 fe 2778 fe 5 2778 fe 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Latitude 3 Land-surfa The depth This w | 32°01'49 ace elev of the v vell is ca OTHER 142 144 146 148 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOLS DEPOSITS (110AVN | SON DEPOSITS 1B) local aquifer 265.36E.23.222 | | Tab-s Grapl Resel | 2782 es 2778 es 2776 es 2776 es 2776 es 2776 es 2776 es 2776 es 27776 es 277776 es 2777777777777777777777777777777777777 |
| Latitude 3 Land-surfa The depth This w | 2°01'49 ace elev of the v vell is co OTHER 142 144 146 148 87 159 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOL DEPOSITS (110AVN USGS 320149103134201 | SON DEPOSITS 1B) local aquifer 265.36E.23.222 | | Tab-s Grapl Resel | 2782 es 2778 es 2776 es 2776 es 2776 es 2776 es 2776 es 2776 es 27776 es 277776 es 2777777777777777777777777777777777777 |
| Latitude 3 Land-surfa The depth This w | 2°01'49 ace elev of the v vell is co OTHER 142 144 146 148 8 7 159 152 | ", Longitude ation 2,925.8 vell is 200 fee ompleted in the SURFACE | 103°13'42" NAD27 0 feet above sea level et below land surface. he ALLUVIUM,BOL DEPOSITS (110AVN USGS 320149103134201 | SON DEPOSITS 1B) local aquifer 265.36E.23.222 | | Tab-s Grapl Resel | 2782 ES 2778 ES 2778 L 2776 L 2774 L 2774 L 2774 L 2774 L 2774 L 2774 L 2774 L 2774 L 2775 L 2774 L |

http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=320149103134201&

---- Provisional Data Subject to Revision ----

8/28/2006



National Water Information **Data Category: Geographic Area:** Water Ground Water New Mexico GO System: Web Interface Resources **Ground-water levels for New Mexico** Search Results -- 1 sites found Search Criteria site no list = 320510103101301 Save file of selected sites to local disk for future upload USGS 320510103101301 25S.37E.33.11444 Available data for this site Ground-water: Field measurements GO E AB Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°05'10", Longitude 103°10'13" NAD27 Land-surface elevation 3,001.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 105 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320510103101301 255,37E,33,11444 85.00 2916,50 sea Ground-Water Level, in feet below surface 85,50 above 2916.00 86.00 O Ō 2915.50 Ţ, 0 86,50 Ó Ó Level 2915.00 87.00 Hater 2914.50 Ø 87,50 5 Altitude 2914,00 88.00 1988 2000 1958 1964 1970 1976 1982 1994 2006 - Provisional Data Subject to Revision ----

8/28/2006

| Page | 1 | of | 1 |
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| | | | |

| New Mexico Office of the State Engineer POD Reports and Downloads | | | | | | | |
|--|---------|------------|------------------|--|----------------|-------------|--|
| Township: | 26S | Range: 37E | Sections: | | | | |
| NAD27 X: | | Y: | Zone: | | Search Radius: | | |
| County: | | Basin: | | | Number: | Suffix: | |
| Owner Name: (First) | <u></u> | | (Last) (Last) | | ⊘ Non-Domestic | () Domestic | |
| POD//Surface Data Report Avg Depth to Water Report | | | | | | | |
| Clear Form WATERS Menu Help | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | · | | | | | | |

| | | AVERA | AGE | DEPTH | OF WATER | REPORT | 08 | /28/200 | 6 | | |
|-----|--------|--------|------|-------|----------|--------|----|---------|--------|----------|-------|
| | | | | | | | | | (Depth | Water in | Feet) |
| Bsn | Tws | Rng | Sec | Zone | Х | 3 | C | Wells | Min | Max | Avg |
| No | Record | ls fou | und, | try a | gain | | | | | | |

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

8/28/2006

| New Mexico Office of the State Engineer POD Reports and Downloads | | | | | | | | |
|---|------------|---------------|------------------|----------|--|--|--|--|
| Township: 25S | Range: 37E | Sections: | | | | | | |
| NAD27 X: | Y: | Zone: | Search Radius: | | | | | |
| County: | Basin: | | Number: | Suffix: | | | | |
| Owner Name: (First) | | ast) @ All | ○Non-Domestic ○1 | Domestic | | | | |
| ROD / Surface Data Report Avg Depth to Water Report Water Column Report | | | | | | | | |
| | Clear Form | WATERS M | enu Help | | | | | |

AVERAGE DEPTH OF WATER REPORT 08/28/2006

| | | | | | | (Depth | Water in | Feet) |
|-------|----------------------------|--|------------------------|-------------------------------------|-------------------------------------|---|---|--|
| ws Rn | g Sec | Zone | х | Y | Wells | Min | Max | Avg |
| 5S 37 | E 19 | | | | 9 | 27 | 63 | 44 |
| 5S 37 | E 20 | | | | 6 | 23 | 60 | 34 |
| 5S 37 | E 29 | | | | 5 | 187 | 250 | 219 |
| 5S 37 | E 35 | | | | 1 | 185 | 185 | 185 |
| | 5S 37: 5S 37: 5S 37: | ws Rng Sec 5S 37E 19 5S 37E 20 5S 37E 29 5S 37E 35 | 5S 37E 20 5S 37E 29 | 5S 37E 19 5S 37E 20 5S 37E 29 | 5S 37Ē 19 5S 37E 20 5S 37E 29 | 5S 37É 19 9 5S 37E 20 6 5S 37E 29 5 | ws Rng Sec Zone X Y Wells Min 5S 37E 19 9 27 5S 37E 20 6 23 5S 37E 29 5 187 | 5S37E19927635S37E20623605S37E295187250 |

Record Count: 21

| New Mexico Office of the State Engineer POD Reports and Downloads | | | | | | | | | |
|--|--------------|------------------|------------------|----------|--|--|--|--|--|
| Township: 2 | 6S Range: 36 | SE Sections: | | | | | | | |
| NAD27 X: | Y: | Zone: | Search Radius: | | | | | | |
| County: | Basin: | | Number: | Suffix: | | | | | |
| Owner Name: (First) | | (Last) (Last) | ○Non-Domestic ○I | Oomestic | | | | | |
| POD / Surface Data Report Avg Depth to Water Report | | | | | | | | | |
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AVERAGE DEPTH OF WATER REPORT 08/28/2006 (Depth Water in Feet) Bsn Tws Rng Sec Zone X Y Wells Min Max Avg No Records found, try again

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

8/28/2006

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| New Mexico Office of the State Engineer POD Reports and Downloads | | | | | | | | | | |
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| : 25S | Range: 36E | Sections: | | | | | | | | |
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| | Basin: | | Number: | Suffix: | | | | | | |
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| | | AVERA | AGE 1 | DEPTH | OF WATER | REPORT | 90 | 3/28/200 | 06 | | |
|------|-------|--------|-------|-------|----------|--------|----|----------|--------|----------|-------|
| | | | | | | | | | (Depth | Water in | Feet) |
| Bsn | Tws | Rng | Sec | Zone | х | 3 | ζ | Wells | Min | Max | Avg |
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http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

8/28/2006

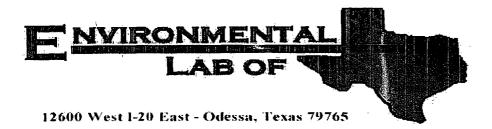
APPENDIX B

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Analytical Reports

Analytical Report

Farnsworth Fed. B #5 8/31/2006



Analytical Report

Prepared for:

Ike Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Location: Lea Co., NM

Lab Order Number: 6H28009

Report Date: 08/31/06

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Project Manager: Ike Tavarez

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|------------------|
| AH-1 0-1' | 6H28009-01 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-1 1-1.5' | 6H28009-02 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-2 0-1' | 6H28009-03 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-2 1-1.5' | 6H28009-04 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-3 0-1' | 6H28009-05 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-3 1-1.5' | 6H28009-06 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-3 2-2.5' | 6H28009-07 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-3 3-3.5' | 6H28009-08 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-4 0-1' | 6H28009-09 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |
| AH-4 1-1.5' | 6H28009-10 | Solid | 08/24/06 00:00 | 08-28-2006 15:55 |

Page 1 of 13

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

| Highlander Environmental Corp. | Project: | Clayton Williams/SWR/ Farnsworth Fed. B #5 | Fax: (432) 682-3946 |
|--------------------------------|------------------|--|---------------------|
| 1910 N. Big Spring St. | Project Number: | 2724 | |
| Midland TX, 79705 | Project Manager: | Ike Tavarez | |

Organics by GC

Environmental Lab of Texas

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| | | Reporting | | | | | | | |
|-----------------------------------|---|-----------|-----------|----------|---------|----------|------------|-----------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| AH-1 0-1' (6H28009-01) Solid | | | | | | | | | |
| Benzene | ND | 0.0500 | mg/kg dry | 50 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Toluene | 0.0590 | 0.0500 | " | | " | * | н | n | |
| Ethylbenzene | 0.114 | 0.0500 | 0 | | * | Ir | н | n | |
| Xylene (p/m) | 0.289 | 0.0500 | ** | | 11 | | " | n | |
| Xylene (o) | 0.113 | 0.0500 | " | " | " | | 11 | ** | |
| Surrogate: a,a,a-Trifluorotoluene | | 111% | 80- | 120 | " | n | " | n | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 80- | 120 | " | " | " | " | |
| Carbon Ranges C6-C12 | 205 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 1270 | 50.0 | tr | н | " | н | 11 | | |
| Carbon Ranges C28-C35 | 178 | 50.0 | " | | 11 | н | | | |
| Total Hydrocarbons | 1650 | 50.0 | 11 | " | 11 | H | 11 | u | |
| Surrogate: 1-Chlorooctane | | 18.6 % | 70- | 130 | " | n | " | , , | S-06 |
| Surrogate: 1-Chlorooctadecane | | 16.5 % | 70- | 130 | " | " | " | " | S-06 |
| AH-1 1-1.5' (6H28009-02) Solid | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | 11 | " | u | 11 | n | |
| Ethylbenzene | ND | 0.0250 | ** | 11 | •• | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | 'n | " | н | * | " | |
| Xylene (o) | ND | 0.0250 | 51 | и | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 108 % | 80- | 120 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 80- | 120 | " | " | " | | |
| Carbon Ranges C6-C12 | ND | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 973 | 50.0 | 11 | " | •• | н | . n | • 11 | |
| Carbon Ranges C28-C35 | 277 | 50.0 | " | 17 | • | n | и | n | |
| Total Hydrocarbons | 1250 | 50.0 | 11 | 11 | | м | " | " | |
| Surrogate: 1-Chlorooctane | | 19.9 % | 70- | 130 | н | " | " | 11 | S-0 |
| Surrogate: 1-Chlorooctadecane | | 15.9 % | 70- | 130 | " | " | " | n | S-0 |
| AH-2 0-1' (6H28009-03) Solid | | | | | | | | | |
| Benzene | 0.205 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 1.58 | 0.0250 | " | " | " | | н | " | |
| Ethylbenzene | 1.26 | 0.0250 | | " | " | " | " | | |
| Xylene (p/m) | 3.28 | 0.0250 | n | ** | * | ** | " | 11 | |
| Xylene (0) | 1.46 | 0.0250 | | | н | ** | " | 11 | |
| Surrogate: a,a,a-Trifluorotoluene | | 179 % | 80- | 120 | " | " | " | " | S-0 |
| Surrogate: 4-Bromofluorobenzene | | 244 % | 80- | 120 | " | " | " | " | S-0 |
| Carbon Ranges C6-C12 | 4810 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Environmental Lab of Texas | The results in this report apply to the samples analyzed in accordance with the samples | | | | | | | | |

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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724

Project Manager: Ike Tavarez

Organics by GC

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|---------------------------------------|---------------------------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-2 0-1' (6H28009-03) Solid | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · | | | | | | | |
| Carbon Ranges C12-C28 | 18300 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | 1550 | 50.0 | " | | " | н | н | | |
| Total Hydrocarbons | 24700 | 50.0 | n | ** | n | " | " | n | |
| Surrogate: 1-Chlorooctane | | 34.4 % | 70-1 | 130 | " | " | " | " | S-06 |
| Surrogate: 1-Chlorooctadecane | | 18.3 % | 70-1 | 130 | " | " | " | " | S-06 |
| AH-2 1-1.5' (6H28009-04) Solid | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Toluene | J [0.0104] | 0.0250 | n | н | " | " | 11 | n | J |
| Ethylbenzene | ND | 0.0250 | " | | " | п | н | " | |
| Xylene (p/m) | J [0.0218] | 0.0250 | 'n | | " | " | u | | j |
| Xylene (0) | ND | 0.0250 | u . | " | | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 114 % | 80- | 120 | | " | v | " | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 80- | 120 | " | " | " | " | |
| Carbon Ranges C6-C12 | J [23.3] | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | i |
| Carbon Ranges C12-C28 | 466 | 50.0 | и | | | " | 11 | " | |
| Carbon Ranges C28-C35 | 155 | 50.0 | " | H | | | n | " | |
| Total Hydrocarbons | 621 | 50.0 | 11 | н | ч | " | " | 17 | |
| Surrogate: 1-Chlorooctane | | 18.2 % | 70- | 130 | " | н | 11 | n | S-00 |
| Surrogate: 1-Chlorooctadecane | | 16.5 % | 70- | 130 | " | " | " | " | S-00 |

AH-3 0-1' (6H28009-05) Solid

| Benzene | 0.113 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
|-----------------------------------|-------|--------|------------|----|---------|----------|----------|-----------|------|
| Toluene | 0.992 | 0.0250 | | ** | 11 | *1 | " | u | |
| Ethylbenzene | 0.724 | 0.0250 | " | " | ч | " | | * | |
| Xylene (p/m) | 1.92 | 0.0250 | ". | | " | " | " | ** | |
| Xylene (0) | 0.808 | 0.0250 | • | • | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 162 % | 80-120 | | " | n | " | " | S-04 |
| Surrogate: 4-Bromofluorobenzene | | 217 % | 80-120 | | 11 | " | " | " | S-04 |
| Carbon Ranges C6-C12 | 1970 | 50.0 | ıng/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 6650 | 50.0 | " | " | " | | ** | ** | |
| Carbon Ranges C28-C35 | 665 | 50.0 | " | н | * | " | н | и | |
| Total Hydrocarbons | 9280 | 50.0 | n | ч | n | " | | | |
| Surrogate: 1-Chlorooctane | | 25.4 % | 70-130 | | v | " | н | " | S-06 |
| Surrogate: 1-Chlorooctadecane | | 17.6 % | 70-130 | | " | " | " | " | S-06 |

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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.

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

| | | 0- | ganics by | CC | | | | | |
|-----------------------------------|------------|--------------------|-----------|----------|---------|----------|----------|-----------|------|
| | | | | | | | | | |
| <u></u> | | Environ | nental La | | | | | | |
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| AH-3 1-1.5' (6H28009-06) Solid | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Foluene | ND | 0.0250 | m | н | * | | " | н | |
| Ethylbenzene | ND | 0.0250 | | " | " | | " | n | |
| Xylene (p/m) | ND | 0.0250 | ** | " | " | 1+ | в | " | |
| Xylene (o) | ND | 0.0250 | н | " | " | " | " | n | |
| Surrogate: a,a,a-Trifluorotoluene | | 84.2 % | 80-12 | 0 | n | " | " | и | |
| Surrogate: 4-Bromofluorobenzene | | 86.2 % | 80-12 | 0 | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | | " | " | " | . " | 'n | |
| Carbon Ranges C28-C35 | ND | 10.0 | | " | ** | " | | p | |
| Total Hydrocarbons | ND | 10.0 | | " | | " | " | n | |
| Surrogate: 1-Chlorooctane | | 104 % | 70-13 | 0 | " | n | " | " | |
| Surrogate: 1-Chlorooctadecane | | 89.0 % | 70-13 | 0 | " | " | " | n | |
| 2 | | | | | | | | | |
| AH-4 0-1' (6H28009-09) Solid | | | | | | | | | |
| Benzene | 0.225 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 1.83 | 0.0250 | n | " | h | | | n | |
| Ethylbenzene | 1.30 | 0.0250 | n | 11 | н | " | " | н | |
| Xylene (p/m) | 3.63 | 0.0250 | " | и | н | " | " | ** | |
| Xylene (o) | 1.31 | 0.0250 | " | 81 | " | " | | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 220 % | 80-12 | 0 | " | " | u | " | S-1 |
| Surrogate: 4-Bromofluorobenzene | | 227 % | 80-12 | 20 | " | " | " | " | S- |
| Carbon Ranges C6-C12 | 5960 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 21100 | 50.0 | " | 11 | " | " | п | 14 | |
| Carbon Ranges C28-C35 | 1670 | 50.0 | " | " | " | " | u | 18 | |
| Total Hydrocarbons | 28700 | 50.0 | " | | " | н | | n | |
| Surrogate: 1-Chlorooctane | | 39.2 % | 70-1 | 10 | " | н | " | " | S- |
| Surrogate: 1-Chlorooctadecane | | 19.1 % | 70-1 | 10 | " | " | " | " | S- |
| AH-4 1-1.5' (6H28009-10) Solid | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | J [0.0101] | 0.0250 | | ч | u | | " | 11 | |
| Ethylbenzene | ND | 0.0250 | | н | " | " | n | " | |
| Xylene (p/m) | J [0.0222] | 0.0250 | | 0 | | н | н | 11 | |
| Xylene (o) | ND | 0.0250 | | " | " | | " | 47 | |
| Surrogate: a,a,a-Trifluorotoluene | | 103 % | 80-12 | 20 | ,, | " | " | | |
| Surrogate: 4-Bromofluorobenzene | | 95.2 % | 80-11 | | | " | " | " | |
| Carbon Ranges C6-C12 | J [19.5] | | mg/kg dry | 5 | EH63001 | 08/29/06 | | EPA 8015M | |

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Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Fax: (432) 682-3946

Organics by GC

Project Manager: Ike Tavarez

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-4 1-1.5' (6H28009-10) Solid | | <u></u> | | | ······ | | | | |
| Carbon Ranges C12-C28 | 475 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | 129 | 50.0 | 11 | " | н | u | | " | |
| Total Hydrocarbons | 604 | 50.0 | " | | " | | u | " | |
| Surrogate: 1-Chlorooctane | | 16.1 % | 70-1 | '30 | " | н | " | " | S-00 |
| Surrogate: 1-Chlorooctadecane | | 16.4 % | 70-1 | 30 · | " | " | " | * | S-00 |

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General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas** Reporting Result Limit Units Analyte Method Notes Dilution Batch Prepared Analyzed AH-1 0-1' (6H28009-01) Solid EPA 300.0 Chloride 2540 50.0 mg/kg 100 EH63020 08/30/06 08/30/06 % calculation % 2.5 0.1 % Moisture I EH63005 08/29/06 08/30/06 AH-1 1-1.5' (6H28009-02) Solid Chloride 273 10.0 ıng/kg EPA 300.0 20 EH63020 08/30/06 08/30/06 % Moisture 3.8 0.1 % 1 EH63005 08/29/06 08/30/06 % calculation AH-2 0-1' (6H28009-03) Solid 6890 EPA 300.0 Chloride 100 mg/kg 200 EH63020 08/30/06 08/30/06 % % calculation % Moisture 5.5 0.1 1 FH63005 08/29/06 08/30/06 AH-2 1-1.5' (6H28009-04) Solid . Chloride 406 10.0 mg/kg EPA 300.0 20 EH63020 08/30/06 08/30/06 % Moisture 0.3 0.1 % % calculation ł EH63005 08/29/06 08/30/06 AH-3 0-1' (6H28009-05) Solid Chloride 8510 EPA 300.0 200 mg/kg 400 EH63020 08/30/06 08/30/06 % Moisture 4.0 % 0.1 1 EH63005 08/29/06 08/30/06 % calculation AH-3 1-1.5' (6H28009-06) Solid 12100 Chloride 200 mg/kg EPA 300.0 400 EH63020 08/30/06 08/30/06 % Moisture 4.6 0.1 % % calculation l EH63005 08/29/06 08/30/06 AH-3 2-2.5' (6H28009-07) Solid Chloride 3200 50.0 mg/kg EPA 300.0 100 EH63020 08/30/06 08/30/06 AH-3 3-3.5' (6H28009-08) Solid Chloride J [4.22] 5.00 mg/kg EPA 300.0 10 EH63020 08/30/06 08/30/06 I AH-4 0-1' (6H28009-09) Solid

Project Manager: Ike Tavarez

Environmental Lab of Texas

Chloride

% Moisture

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08/30/06

08/29/06

08/30/06

08/30/06

EPA 300.0

% calculation

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1480

3.5

20.0

0.1

mg/kg

%

40

1

EH63020

EH63005

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Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

| Analyte AH-4 1-1.5' (6H28009-10) Solid | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------|--------------------|------------|----------|--------------------|----------------------|----------------------|----------------------------|-------|
| Chloride % Moisture | 8.34 0.3 | 5.00 0.1 | mg/kg % | 10 | EH63020 EH63005 | 08/30/06 08/29/06 | 08/30/06 08/30/06 | EPA 300.0 % calculation | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

| • | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch EH63001 - Solvent Extraction (GC)

| Blank (EH63001-BLK1) | | | | Prepared & | Analyzed: | 08/29/06 | | |
|----------------------------------|--------|-----------|-----------|-------------|-----------|-------------|---------|---------------------------------------|
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | 11 | | | | | |
| Total Hydrocarbons | ND | 10.0 | 11 | | | | | |
| Surrogate: 1-Chlorooctane | 45.4 | | mg/kg | 50.0 | | 90.8 | 70-130 | · · · · · · · · · · · · · · · · · · · |
| Surrogate: 1-Chlorooctadecane | 38.8 | | " | 50.0 | | 77.6 | 70-130 | |
| LCS (EH63001-BS1) | | | | Prepared & | Analyzed: | 08/29/06 | | |
| Carbon Ranges C6-C12 | 486 | 10.0 | mg/kg wet | 500 | | 97.2 | 75-125 | |
| Carbon Ranges C12-C28 | 44 i | 10.0 | н | 500 | | 88.2 | 75-125 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | |
| Total Hydrocarbons | 927 | 10.0 | " | 1000 | | 92.7 | 75-125 | |
| Surrogate: 1-Chlorooctane | 50.9 | | mg/kg | 50.0 | | 102 | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 37.5 | | " | 50.0 | | 75.0 | 70-130 | |
| Calibration Check (EH63001-CCV1) | | | | Prepared: 0 | 8/29/06 A | nalyzed: 08 | 3/30/06 | |
| Carbon Ranges C6-C12 | 203 | | mg/kg ' | 250 | | 81.2 | 80-120 | |
| Carbon Ranges C12-C28 | 246 | | " | 250 | | 98.4 | 80-120 | |
| Total Hydrocarbons | 449 | | | 500 | | 89.8 | 80-120 | |
| Surrogate: 1-Chlorooctane | 52.2 | | " | 50.0 | | 104 | 70-130 | · |
| Surrogate: 1-Chlorooctadecane | 44.0 | | " | 50.0 | | 88.0 | 70-130 | |
| Matrix Spike (EH63001-MS1) | Source | e: 6H2800 | 9-06 | Prepared: 0 | 8/29/06 A | nalyzed: 0 | 8/30/06 | |
| Carbon Ranges C6-C12 | 539 | 10.0 | mg/kg dry | 524 | ND | 103 | 75-125 | |
| Carbon Ranges C12-C28 | 489 | 10.0 | " | 524 | ND | 93.3 | 75-125 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | |
| Total Hydrocarbons | 1030 | 10.0 | u | 1050 | ND | 98.1 | 75-125 | |
| Surrogate: 1-Chlorooctane | 62.2 | | mg/kg | 50.0 | | 124 | 70-130 | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | |

"

53.4

50.0

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Surrogate: 1-Chlorooctadecane

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107

70-130

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Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Fax: (432) 682-3946

Organics by GC - Quality Control

Project Manager: Ike Tavarez

Environmental Lab of Texas

| | | | | _ | | | | | | | |
|---------|-----|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| | | | Reporting | | Spike | Source | | %REC | | RPD | |
| Analyte | · · | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch EH63001 - Solvent Extraction (GC)

| Matrix Spike Dup (EH63001-MSD1) Carbon Ranges C6-C12 | Source: 6H28009-06 | | | Prepared: 08/29/06 Analyzed: 08/30/06 | | | | | |
|---|--------------------|------|-----------|---------------------------------------|----|------|--------|-------|----|
| | 530 | 10.0 | mg/kg dry | 524 | ND | 101 | 75-125 | 1.68 | 20 |
| Carbon Ranges C12-C28 | 489 | 10.0 | " | 524 | ND | 93.3 | 75-125 | 0.00 | 20 |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | 20 |
| Total Hydrocarbons | 1020 | 10.0 | " | 1050 | ND | 97.1 | 75-125 | 0.976 | 20 |
| Surrogate: 1-Chlorooctane | 59.6 | | mg/kg | 50.0 | | 119 | 70-130 | | |
| Surrogate: 1-Chlorooctadecane | 45.7 | | " | 50.0 | | 91.4 | 70-130 | | |

Batch EH63004 - EPA 5030C (GC)

| Blank (EH63004-BLK1) | | | | Prepared & Anal | yzed: 08/29/06 | | |
|-----------------------------------|------|--------|-----------|-----------------|-----------------|--------|--|
| Benzene | ND | 0.0250 | mg/kg wet | | | | |
| Toluene | ND | 0.0250 | н | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | |
| Xylene (p/m) | ND | 0.0250 | | | | | |
| Xylene (0) | ND | 0.0250 | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 44.0 | | ug/kg | 40.0 | 110 | 80-120 | |
| Surrogate: 4-Bromofluorobenzene | 36.1 | | " | 40.0 | 90.2 | 80-120 | |
| LCS (EH63004-BS1) | | | | Prepared & Anal | lyzed: 08/29/06 | | |
| Benzene | 1.40 | 0.0250 | mg/kg wet | 1.25 | 112 | 80-120 | |
| Toluene | 1.48 | 0.0250 | , N | 1.25 | 118 | 80-120 | |
| Ethylbenzene | 1,20 | 0.0250 | н | 1.25 | 96.0 | 80-120 | |
| Xylene (p/m) | 2.95 | 0.0250 | 11 | 2.50 | 118 | 80-120 | |
| Xylene (o) | 1.35 | 0.0250 | н | 1.25 | 108 | 80-120 | |
| | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 47.1 | | ug/kg | 40.0 | 118 | 80-120 | |

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Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Batch | EH63004 | - EPA | 5030C | (GC) |
|-------|---------|-------|-------|------|
|-------|---------|-------|-------|------|

| Calibration Check (EH63004-CCV1) | | | | Prepared: 0 | 8/29/06 A | nalyzed: 0 | 8/30/06 | |
|-----------------------------------|------|-------------|-----------|-------------|-----------|------------|---------|--|
| Benzene | 46.9 | | ug/kg | 50.0 | | 93.8 | 80-120 | |
| Toluene | 50.9 | | ч | 50.0 | | 102 | 80-120 | |
| Ethylbenzene | 55.2 | | 4 | 50.0 | | 110 | 80-120 | |
| Xylene (p/m) | 112 | | | 100 | | 112 | 80-120 | |
| Xylene (0) | 54.7 | | | 50.0 | | 109 | 80-120 | |
| Surrogate: a,a,a-Trifluorotoluene | 45.3 | | " | 40.0 | | 113 | 80-120 | |
| Surrogate: 4-Bromofluorobenzene | 44.8 | | " | 40.0 | | 112 | 80-120 | |
| Matrix Spike (EH63004-MS1) | Sour | ce: 6H28010 | -02 | Prepared: 0 | 8/29/06 A | nalyzed: 0 | 3/30/06 | |
| Benzene | 1.24 | 0.0250 | mg/kg dry | 1.27 | ND | 97.6 | 80-120 | |
| Toluene | 1.36 | 0.0250 | u | 1.27 | ND | 107 | 80-120 | |
| Ethylbenzene | 1.27 | 0.0250 | | 1.27 | ND | 100 | 80-120 | |
| Xylene (p/m) | 2.93 | 0.0250 | n | 2.54 | ND | 115 | 80-120 | |
| Xylene (o) | 1.34 | 0.0250 | " | 1.27 | ND | 106 | 80-120 | |
| | 40.5 | | ug/kg | 40.0 | | 101 | 80-120 | |
| Surrogate: a,a,a-Trifluorotoluene | | | | | | | | |

| Matrix Spike Dup (Eriosou4-MSDI) | Source. 01120010-02 | | | riepaieu, o | 6/29/00 A | | | | |
|-----------------------------------|---------------------|--------|------------|-------------|-----------|------|--------|-------|----|
| Benzene | 1.17 | 0.0250 | ıng/kg dry | 1.27 | ND | 92.1 | 80-120 | 5.80 | 20 |
| Toluene | 1.29 | 0.0250 | " | 1.27 | ND | 102 | 80-120 | 4,78 | 20 |
| Ethylbenzene | 1.25 | 0.0250 | | 1.27 | ND | 98.4 | 80-120 | 1.61 | 20 |
| Xylene (p/m) | 2.74 | 0.0250 | " | 2.54 | ND | 108 | 80-120 | 6.28 | 20 |
| Xylene (o) | 1.36 | 0.0250 | | 1.27 | ND | 107 | 80-120 | 0.939 | 20 |
| Surrogate: a,a,a-Trifluorotoluene | 33.5 | | ug/kg | 40.0 | | 83.8 | 80-120 | | |
| Surrogate: 4-Bromofluorobenzene | 37.9 | | " | 40.0 | | 94.8 | 80-120 | | |
| | | | | | | | | | |

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| Highlander Environmental Corp. | | ed. B #5 | Fax: (432) 682-3946 | | | | | | | |
|-------------------------------------|----------------|--------------------|---------------------|----------------|------------------|-------------|----------------|------|--------------|-------|
| 1910 N. Big Spring St. | | Project Nu | nber: 27 | 24 | | | | | | |
| Midland TX, 79705 | | Project Mar | | | | | | | | |
| General | Chemistry Para | meters by | EPA / | Standard | l Methoo | is - Qua | lity Cont | trol | | |
| | | Environm | ental I | ab of Te | xas | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch EH63005 - General Preparation | (Prep) | | | | | | | | | |
| Blank (EH63005-BLK1) | | | | Prepared: (| 08/29/06 A | nalyzed: 08 | /30/06 | | | |
| % Moisture | ND | 0.1 | % | | | | <u>,</u> | | | |
| Duplicate (EH63005-DUP1) | Sou | rce: 6H28009- | -01 | Prepared: (| 08/29/06 A | nalyzed: 08 | /30/06 | | | |
| % Moisture | 2.1 | 0.1 | % | | 2.5 | | | 17.4 | 20 | |
| Duplicate (EH63005-DUP2) | Sou | Source: 6H28010-17 | | | | nalyzed: 08 | 8/30/06 | | | |
| % Moisture | 9.5 | 0.1 | % | | 9.2 | | | 3.21 | 20 | |
| Duplicate (EH63005-DUP3) | Sou | rce: 6H29004 | -03 | Prepared: | 08/29/06 A | | | | | |
| % Moisture | 8.8 | 0.1 | % | | 7.3 | | | 18.6 | 20 | |
| Batch EH63020 - Water Extraction | | | | | | | 10 | | | |
| Blank (EH63020-BLK1) | | | | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EH63020-BS1) | | | | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | 10.5 | 0.500 | mg/kg | 10.0 | | 105 | 80-120 | | | |
| Calibration Check (EH63020-CCV1) | | | | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | 9.95 | | tng/L | 10.0 | | 99.5 | 80-120 | | | |
| Duplicate (EH63020-DUP1) | Sou | rce: 6H28009 | -02 | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | 247 | 10.0 | mg/kg | | 273 | | | 10.0 | 20 | |
| Duplicate (EH63020-DUP2) | Sou | rce: 6H28010 | -01 | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | 371 | 10.0 | mg/kg | | 429 | | | 14.5 | 20 | |

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Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

| A Kina | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------------------|--------------------|-------|-------------------------------|------------------|----------|----------------|-----|--------------|--------|
| Analyte | | | Units | Level | | 70KEL | Linits | KPD | | inotes |
| Batch EH63020 - Water Extraction | | | | | | | | | | |
| Matrix Spike (EH63020-MS1) | Sour | ce: 6H28009- | 02 | Prepared & | Analyzed: | 08/30/06 | | | | |
| Chloride | 462 | 10.0 | mg/kg | 200 | 273 | 94.5 | 80-120 | | | |
| Matrix Spike (EH63020-MS2) | Source: 6H28010-01 | | | Prepared & Analyzed: 08/30/06 | | | | | | |
| Chloride | 662 | 10.0 | mg/kg | 200 | 429 | 116 | 80-120 | | | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5 Project Number: 2724 Fax: (432) 682-3946

Midland TX, 79705 Project Manager: Ike Tavarez Notes and Definitions S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04 Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). J Analyte DETECTED DET Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported đry Sample results reported on a dry weight basis Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

Report Approved By:

Raland K Just

8/31/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

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|---|------------------|------------------|---------------------------------|-------------------------|--|--|--|----------|--------|--------|-------|-------|-------|-------|---------|------|---------|----------------------------------|------------------------------|------------------------------|---|--|---|
| | A wecold | CORP. | | Fax (432) 682-3946 | RESERVATIVE | | ICE HRO3 HCT LITLERED (J ROTHERE OL | <u> </u> | | | | | | | | | | Diste: Time: | Date: | Deter | | me: 1555 | REMARKS: r Environcental Corp. |
| 2 | Unain of Lustouy | (COLD) | Big Spring St. , Texas 79705 | | KINACERES (CO.O.C.C. | HWWW Fel 8 # 5 | Lec. Cu putty Sample identification | 1-0 | 1-151 | 1-1 | 1.15' | 0-1 | 1-1.5 | 2-25/ | , 5'6-2 | 6-1 | 1-1.5 / | 6 RECEIVED BY: (Signature) | RECEIVED BY: (Signature) | RECEIVED BY: (Signature) | RECEIVED BY: (Signature) _ 0 | Ϊ. | F-Fatar A-Atr ED-Solid S-Sali EL-Stadge 0-Other - Return original copy to Highlan |
| | - | | 1910 N. Big Midland, Te | | SITTE | | CCC SAMP | I.H.T. | 1 11-1 | 1 11 2 | Z-H-Z | 144-3 | A4-3 | A 4-3 | 7 44-3 | 44-4 | Y-44-4 | Date: \$138/06 | Data: | Date: | Time: | idz | ELVED: 4,0°C EATRIX: Di <u>s See/S</u> - Laboretory retains yellor copy |
| 1 | Analysis kequesu | HIGHLANDER | | (432) 682-4559 | 11/10005 | Yer | LAB I.D. DATE TTAE REP. | 2 July C | | ۲ ۲ | 2 | | -06 | 5 | C | | -10 V | RELINGUERED BY: (Signature) | RELINQUISHED BY: (Signature) | RELINQUICHED BY: (Signeture) | RECERTING LABORATORY: LA | ADDRESSS: CTTY: STATE: CONTACT: PHONE: | DADFITON WHEN REC ONDETON WHEN REC Socies of the second |

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

| Client: | Highlander Environmental |
|-------------|--------------------------|
| Date/ Time: | 08-28-04 CE 1555 |
| Lab ID # : | 6 H28009 |
| Initials: | JMM |

Sample Receipt Checklist

| | | | | C | lient Initials |
|----------------|--|-------|----|--------------------------|----------------|
| # 1 | Temperature of container/ cooler? | res | No | 4,D °C | |
| ¥2 | Shipping container in good condition? | Ves | 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 | | |
| 4 6 | Sample instructions complete of Chain of Custody? | (res) | No | | |
| 4 7 | Chain of Custody signed when relinquished/ received? | (Yes) | No | | |
| 78 | 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 | |
| 710 | Sample matrix/ properties agree with Chain of Custody? | Tes | No | | |
| #11 | Containers supplied by ELOT? | Fres | No | | |
| <i>‡</i> 12 | Samples in proper container/ bottle? | (Yes) | No | See Below | |
| #13 | Samples properly preserved? | (Ses) | No | See Below | |
| #14 | Sample bottles intact? | CER | No | | |
| 115 | Preservations documented on Chain of Custody? | (Xes) | No | | |
| ±16 | Containers documented on Chain of Custody? | Ves | No | | |
| t17 | Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| 118 | All samples received within sufficient hold time? | ¥85 | No | See Below | |
| :19 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

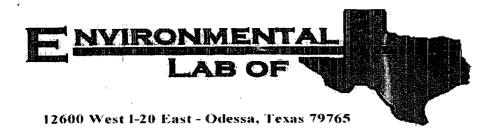
| contact: | | Contacted by: | Date/ Time: |
|------------------------|-------|--------------------------|-------------|
| legarding: | | · | |
| orrective Action Taken | 1 | | |
| | ····· | | |
| heck all that Apply: | | See attached e-mail/ fax | |

 \square

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Analytical Report

Farnsworth Fed. B Tank Battery 8/31/2006



Analytical Report

Prepared for:

lke Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Location: Lea Co., NM

Lab Order Number: 6H28010

Report Date: 08/31/06

ī

Project:Clayton Williams/SWR/Farnsworth Fed. B TBProject Number:2724Project Manager:Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|------------------|
| AH-1 0-1' | 6H28010-01 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-1 1-1.5' | 6H28010-02 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-1 2-2.5' | 6H28010-03 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-1 3-3.5' | 6H28010-04 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-2 0-1' | 6H28010-05 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-2 1-1.5' | 6H28010-06 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-2 2-2.5' | 6H28010-07 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-2 4-4.5' | 6H28010-08 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-2 5-5.5' | 6H28010-09 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-3 0-1' | 6H28010-10 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-3 1-1.5' | 6H28010-11 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-3 2-2.5' | 6H28010-12 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-4 0-1' | 6H28010-13 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-4 1-1.5' | 6H28010-14 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-4 2-2.5' | 6H28010-15 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-5 0-1' | 6H28010-16 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-5 1-1.5' | 6H28010-17 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |
| AH-5 2-2.5' | 6H28010-18 | Soil | 08/25/06 00:00 | 08-28-2006 15:55 |

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724

Project Manager: Ike Tavarez

Organics by GC

Environmental Lab of Texas

| | D h | Reporting | | | | | | | |
|-----------------------------------|------------|-----------|-------------|----------|---------|----------|----------|-----------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| AH-1 0-1' (6H28010-01) Soil | | | | | | | · | | |
| Benzene | J [0.0113] | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 0.0790 | 0.0250 | и | " | " | " | " | н | |
| Ethylbenzene | 0.0839 | 0.0250 | н | и | " | * | " | " | |
| Xylene (p/m) | 0.365 | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | 0.103 | 0.0250 | н | 11 | " | " . | 11 | | |
| Surrogate: a,a,a-Trifluorotoluene | | 101 % | 80 | 120 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 87.2 % | 80 | 120 | " | " | " | 11 | |
| Carbon Ranges C6-C12 | 379 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 12300 | 50.0 | н | " | ** | " | " | n | |
| Carbon Ranges C28-C35 | 1910 | 50.0 | n | и | 89 | " | " | u | |
| Total Hydrocarbons | 14600 | 50.0 | н | · 0 | 11 | ** | " | u | |
| Surrogate: 1-Chlorooctane | | 17.8 % | 70- | 130 | " | " | " | " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 17.1 % | 70- | 130 | " | " | " | " | S-0 |
| AH-1 1-1.5' (6H28010-02) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | 'n | " | " | н | " | |
| Ethylbenzene | ND | 0.0250 | | " | 0 | | " | 11 | |
| Xylene (p/m) | ND | 0.0250 | " | н | " | " | " | u. | |
| Xylene (o) | ND | 0.0250 | н | n | ** | H | · • | | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.8 % | 80- | 120 | n | " | и., | n | |
| Surrogate: 4-Bromofluorobenzene | | 99.2 % | 80- | 120 | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | i | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 239 | 10.0 | " | | " | u | н | n | |
| Carbon Ranges C28-C35 | 78.3 | 10.0 | и | " | м | " | н | " | |
| Total Hydrocarbons | 317 | 10.0 | " | " | n | n | | 11 | |
| Surrogate: 1-Chlorooctane | | 100 % | 70- | 130 | " | n | " | " | |
| Surrogate: 1-Chlorooctadecane | | 86.6 % | 70- | 130 | " | " | " и | " | |
| AH-1 2-2.5' (6H28010-03) Soil | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 1040 | 50.0 | " | " | | * | u | " | |
| Carbon Ranges C28-C35 | 285 | 50.0 | ." | u | | " | н | " | |
| Total Hydrocarbons | 1320 | 50.0 | " | 14 | ** | | " | " | |
| Surrogate: 1-Chlorooctane | | 17.0 % | 70- | 130 | " | и | " | н | |
| Surrogate: 1-Chlorooctadecane | | 16.2 % | | 130 | " | " | 11 | " | S-1 |

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.

Page 2 of 16

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Fax: (432) 682-3946

Organics by GC

Project Manager: Ike Tavarez

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-2' 0-1' (6H28010-05) Soil | | | | | | | | | |
| Benzene | 0.0435 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 0.589 | 0.0250 | 11 | ** | " | п | # | | |
| Ethylbenzene | 0.371 | 0.0250 | " | " | " | " | " | ۳. | |
| Xylene (p/m) | 1.76 | 0.0250 | н | и | " | и | " | " | |
| Xylene (0) | 0.450 | 0.0250 | n | n | P | n | " | н | |
| Surrogate: a,a,a-Trifluorotoluene | | 128 % | 80-1 | 120 | " | " | n | " | S-0- |
| Surrogate: 4-Bromofluorobenzene | | 126 % | 80-1 | 120 | и | " | " | " | S-0- |
| Carbon Ranges C6-C12 | 1590 | 100 | mg/kg dry | 10 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 19100 | 100 | " | | n | | " | и | |
| Carbon Ranges C28-C35 | 3160 | 100 | | | ** | 11 | " | " | |
| Total Hydrocarbons | 23800 | 100 | D | " | | " | " | " | |
| Surrogate: 1-Chlorooctane | | 10.4 % | 70-1 | 130 | n | " | " | " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 9.48 % | 70-1 | 130 | " | " | " | " | S-00 |
| AH-2 1-1.5' (6H28010-06) Soil | | | | | | | | | |
| Carbon Ranges C6-C12 | 160 | 100 | mg/kg dry | 10 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 16900 | 100 | | ** | | " | " | ** | |
| Carbon Ranges C28-C35 | 3400 | 100 | " | н | н | и | " | н | |
| Total Hydrocarbons | 20500 | 100 | ** | | " | " | " | 87 17 | |
| Surrogate: 1-Chlorooctane | | 17.5 % | 70 | 130 | " | " | " | " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 16.9 % | 70- | 130 | " | " | " | " | S-0 |
| AH-2 2-2.5' (6H28010-07) Soil | | | | | | | | | |
| Carbon Ranges C6-C12 | 163 | 100 | mg/kg dry | 10 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 6330 | 100 | " | " | н | " | " | " | |
| Carbon Ranges C28-C35 | 1300 | 100 | n | | | н | n | ** | |
| Total Hydrocarbons | 7790 | 100 | " | " | " | н | H | " | |
| Surrogate: 1-Chlorooctane | | 17.6 % | 70- | 130 | " | n | " | " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 17.8 % | 70- | 130 | " | " | " | " | S-0 |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| AH-2 4-4.5' (6H28010-08) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | ıng/kg dry | 25 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | n | | н | " | н | н | |
| Ethylbenzene | ND | 0.0250 | | " | н | н | n | и | |
| Xylene (p/m) | ND | 0.0250 | 11 | " | | li . | п | и | |
| Xylene (0) | ND | 0.0250 | | и | | D. | " | н | |
| Surrogate: a,a,a-Trifluorotoluene | | 105 % | 80-12 | ?0 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 107 % | 80-12 | 20 | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 530 | 50.0 | н | | " | н | " | | |
| Carbon Ranges C28-C35 | 243 | 50.0 | и | | " | " | 11 | | |
| Total Hydrocarbons | 773 | 50.0 | н | " | | " | n | | |
| Surrogate: 1-Chlorooctane | | 17.6 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 16.8 % | 70-13 | 30 | n | " | 17 | 7 | S-00 |
| AH-3 0-1' (6H28010-10) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/29/06 | EPA 8021B | |
| Toluene | J [0.0177] | 0.0250 | " | н | | " | | n | |
| Ethylbenzene | J [0.0189] | 0.0250 | n | | n | " | " | n | |
| Xylene (p/m) | 0.0463 | 0.0250 | н | u | " | | " | " | |
| Xylene (0) | ND | 0.0250 | н | " | 'n | | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.5 % | 80-12 | 20 | " | " | . " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.5 % | 80-12 | 20 | " | " | " | n | |
| Carbon Ranges C6-C12 | 50.9 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 4220 | 50.0 | | " | н | n | | n | |
| Carbon Ranges C28-C35 | 1010 | 50.0 | " | | " | н | " | n | |
| Total Hydrocarbons | 5280 | 50.0 | | " | м | n | " | " | |
| Surrogate: 1-Chlorooctane | | 17.3 % | 70-1. | 30 | " | " | " | " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 16.9 % | 70-1. | 30 | n | " | " | " | S-0 |
| AH-3 1-1.5' (6H28010-11) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | n | 11 | n | | " | " | |
| Ethylbenzene | ND | 0.0250 | n | н | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | 11 | " | " | " | |
| Xylene (o) | ND | 0.0250 | H | н | " | н | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 93.5 % | 80-1 | 20 | n | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.0 % | 80-1 | 20 | " | " | " | ** | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EH63001 | 08/29/06 | 08/30/06 | EPA 8015M | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-3 1-1.5' (6H28010-11) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | mg/kg dry | . 1 | EH63001 | 08/29/06 | 08/30/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | н | | " | n | 11 | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | н | n | н | |
| Surrogate: 1-Chlorooctane | | 106 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: I-Chlorooctadecane | | 90.8 % | 70-1 | 130 | n | n | " | " | |
| AH-4 0-1' (6H28010-13) Soil | | | | | | | | | |
| Benzene | 0.762 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 3.94 | 0.0250 | " | " | | н | " | " | |
| Ethylbenzene | 2.55 | 0.0250 | ir. | " | 0 | " | u | 11 | |
| Xylene (p/m) | 9.05 | 0.0250 | | " | | " | 11 | " | |
| Xylene (o) | 2.04 | 0.0250 | " | | " | " | н | 11 | |
| Surrogate: a,a,a-Trifluorotoluene | | 398 % | 80 | 120 | " | " | " | " | S-0- |
| Surrogate: 4-Bromofluorobenzene | | 300 % | 80- | 120 | " | " | " | " | S-0 |
| Carbon Ranges C6-C12 | 3540 | 50.0 | mg/kg dry | 5 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 10300 | 50.0 | " | | II. | " | | u | |
| Carbon Ranges C28-C35 | 963 | 50.0 | " | " | 11 | ** | | " | |
| Total Hydrocarbons | 14800 | 50.0 | " | | n | n | " | " | |
| Surrogate: 1-Chlorooctane | | 30.0 % | 70- | 130 | " | " | " | . " | S-0 |
| Surrogate: 1-Chlorooctadecane | | 18.9 % | 70- | 130 | " | " | " | " | S-0 |
| AH-4 1-1.5' (6H28010-14) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | . " | Ħ | " | " | 17 | 11 | |
| Ethylbenzene | ND | 0.0250 | н | | " | 11 | ** | 11 | |
| Xylene (p/m) | ND | 0.0250 | н | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | u . | n | м | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 102 % | 80- | 120 | " | " | п | " | |
| Surrogate: 4-Bromofluorobenzene | | 89.2 % | 80- | 120 | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EH63001 | 08/29/06 | 08/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 208 | 10.0 | " | | | " | " | 11 | |
| Carbon Ranges C28-C35 | 73.0 | 10.0 | " | " | " | н | 11 | " | |
| Total Hydrocarbons | 281 | 10.0 | " | " | | · • | | * | |
| Surrogate: 1-Chlorooctane | | 103 % | 70- | 130 | | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 89.2 % | 70- | 130 | n | " | · " | " | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

| | D | Reporting | | | | | | | |
|-----------------------------------|----------|-----------|-----------|----------|---------|----------|----------|-----------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| AH-5 0-1' (6H28010-16) Soil | | | | | | | | | |
| Benzene | 0.340 | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | 2.09 | 0.0250 | ** | 11 | н | " | " | " | · |
| Ethylbenzene | 1.49 | 0.0250 | ** | н | " | n | " | n | |
| Xylene (p/m) | 3.08 | 0.0250 | | " | | н | " | n | |
| Xylene (0) | 1.17 | 0.0250 | 39 | " | " | " | н | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 288 % | 80-1 | 120 | " | " | n | " | S-0 |
| Surrogate: 4-Bromofluorobenzene | • | 214 % | 80-1 | 120 | " | " | " | " | S-0 |
| Carbon Ranges C6-C12 | 560 | 50.0 | mg/kg dry | 5 | EH63002 | 08/29/06 | 08/30/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 1460 | 50.0 | " | н | " | Ħ | | " | |
| Carbon Ranges C28-C35 | 108 | 50.0 | 11 | " | н | n | " | н | |
| Total Hydrocarbons | 2130 | 50.0 | " | n | | и | n | 11 | |
| Surrogate: 1-Chlorooctane | | 20.4 % | 70-1 | 130 | 11 | n | " | н | S-0 |
| Surrogate: 1-Chlorooctadecane | | 17.7 % | 70 | 130 | " | " | " | n | S-0 |
| AH-5 1-1.5' (6H28010-17) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EH63004 | 08/29/06 | 08/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | * | " | " | | " | ** | |
| Ethylbenzene | ND | 0.0250 | и | " | н | 11 | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | • | " | n | |
| Xylene (o) | ND | 0.0250 | | | ** | " | " | | |
| Surrogate: a,a,a-Trifluorotoluene | | 103 % | 80- | 120 | " | " | n | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 80- | 120 | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | i | EH63002 | 08/29/06 | 08/30/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | | u | 11 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | " | | " | u | |
| Total Hydrocarbons | ND | 10.0 | " | п | | ** | " | " | |
| Surrogate: 1-Chlorooctane | ··· · · | 99.2 % | 70- | 130 | " | " | " | IJ | |
| Surrogate: 1-Chlorooctadecane | | 87.0 % | 70- | 130 | " | " | n | " | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods

Project Manager: Ike Tavarez

| | | Environn | nental L | ab of Te | exas | | | | |
|-------------------------------|--------|--------------------|----------|----------|---------|----------|----------|---------------|------|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| AH-1 0-1' (6H28010-01) Soil | | | | | | | | | |
| Chloride | 429 | 10.0 | mg/kg | 20 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 4.9 | 0.1 | % | l | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-1 1-1.5' (6H28010-02) Soil | | | | | | | | | |
| Chloride | 62.1 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 1.7 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-1 2-2.5' (6H28010-03) Soil | | | | | | | | | |
| Chloride | 39.8 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 2.6 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-1 3-3.5' (6H28010-04) Soil | | | | | | | | | |
| Chloride | 43.8 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| AH-2 0-1' (6H28010-05) Soil | | | | | | | | | |
| Chloride | 408 | 10.0 | mg/kg | 20 | EH63020 | 08/30/06 | 08/30/06 | EPA 300,0 | |
| % Moisture | 5.5 | 0.1 | % | ı | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-2 1-1.5' (6H28010-06) Soil | | | | | | | | | |
| Chloride | 176 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 9.9 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-2 2-2.5' (6H28010-07) Soil | _ | | | | | | | | |
| Chloride | 81.9 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 10.8 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-2 4-4.5' (6H28010-08) Soil | | | | | | | | | |
| Chloride | 26.0 | 5.00 | ing/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 5.7 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |

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General Chemistry Parameters by EPA / Standard Methods

| | | Environn | nental L | ab of Te | xas | | | | |
|-------------------------------|--|--------------------|----------|----------|-----------|----------|----------|---------------|-------|
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| AH-2 5-5.5' (6H28010-09) Soil | ······································ | | | | | | | | |
| Chloride | 41.0 | 5.00 | mg/kg | 10 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| AH-3 0-1' (6H28010-10) Soil | | | | | | | | | |
| Chloride | 523 | 10.0 | mg/kg | 20 | EH63020 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 1.5 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-3 1-1.5' (6H28010-11) Soil | | | | | | | | | |
| Chloride | 541 | 10.0 | mg/kg | 20 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 2.8 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-3 2-2.5' (6H28010-12) Soil | | | | | | | | | |
| Chloride | 508 | 10.0 | mg/kg | 20 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| AH-4 0-1' (6H28010-13) Soil | | | | | | | | | |
| Chloride | 369 | 10.0 | ing/kg | 20 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 3.4 | 0.1 | % | ł | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-4 1-1.5' (6H28010-14) Soil | | | | | | | | | |
| Chloride | 36.3 | 5.00 | mg/kg | 10 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 7.2 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-4 2-2.5' (6H28010-15) Soil | | | _ | · | | | | | |
| Chloride | 45.5 | 5.00 | mg/kg | 10 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| AH-5 0-1' (6H28010-16) Soil | | | | | | | | | |
| Chloride | 244 | 10.0 | mg/kg | 20 | · EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | • |
| % Moisture | 9.8 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |
| AH-5 1-1.5' (6H28010-17) Soil | | | | | | | | | |
| Chloride | 47.5 | 5.00 | mg/kg | 10 | EH63021 | 08/30/06 | 08/30/06 | EPA 300.0 | |
| % Moisture | 9.2 | 0.1 | % | 1 | EH63005 | 08/29/06 | 08/30/06 | % calculation | |

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Highlander Environmental Corp.Project:Clayton Williams/SWR/Farnsworth Fed. B TB1910 N. Big Spring St.Project Number:2724Midland TX, 79705Project Manager:Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes AH-5 2-2.5' (6H28010-18) Soil Chloride 197 10.0 mg/kg EPA 300.0 20 EH63021 08/30/06 08/30/06

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Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-----------|----------------|------------------|-------------|----------------|--------|--------------|-------|
| Batch EH63001 - Solvent Extraction (GC) | | | ÷ | | | | | | | |
| Blank (EH63001-BLK1) | | | | Prepared & | Analyzed: | 08/29/06 | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | | | | | | | | |
| Surrogate: 1-Chlorooctane | 45.4 | | mg/kg | 50.0 | | 90.8 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 38.8 | | " | 50.0 | | 77.6 | 70-130 | | | |
| LCS (EH63001-BS1) | | | | Prepared & | 2 Analyzed | 08/29/06 | | | | |
| Carbon Ranges C6-C12 | 486 | 10.0 | mg/kg wet | 500 | | 97.2 | 75-125 | | | |
| Carbon Ranges C12-C28 | 441 | 10.0 | * | 500 | | 88.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 927 | 10.0 | 11 | 1000 | | 92.7 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 50.9 | | mg/kg | 50.0 | | 102 | 70-130 | ······ | ··· | |
| Surrogate: 1-Chlorooctadecane | 37.5 | | " | 50.0 | | 75.0 | 70-130 | | | |
| Calibration Check (EH63001-CCV1) | | | | Prepared: (| 08/29/06 A | nalyzed: 08 | 3/30/06 | | | |
| Carbon Ranges C6-C12 | 203 | | mg/kg | 250 | | 81.2 | 80-120 | | ····· ···· | |
| Carbon Ranges C12-C28 | 246 | | н | 250 | | 98.4 | 80-120 | | | |
| Total Hydrocarbons | 449 | | " | 500 | | 89.8 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 52.2 | | " | 50.0 | | 104 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 44.0 | | " | 50.0 | | 88.0 | 70-130 | | | |
| Matrix Spike (EH63001-MS1) | Sou | irce: 6H2800 | 9-06 | Prepared: | 08/29/06 A | nalyzed: 08 | 8/30/06 | | | |
| Carbon Ranges C6-C12 | 539 | 10.0 | mg/kg dry | 524 | ND | 103 | 75-125 | | | |
| Carbon Ranges C12-C28 | 489 | 10.0 | n | 524 | ND | 93.3 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | н | 0.00 | ND | | 75-125 | | | |
| Total Hydrocarbons | 1030 | 10.0 | " | 1050 | ND | 98.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 62.2 | | mg/kg | 50.0 | | 124 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 53.4 | | " | 50.0 | | 107 | 70-130 | | | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Project Manager: Ike Tavarez Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

| | | Reporting | | Spike | Source | | %REC | | RPD | • |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Límit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch EH63001 - Solvent Extraction (GC)

| | | | | | ······································ | | | | |
|---------------------------------|--------|------------|-----------|-------------|--|-------------|---------|-------|----|
| Matrix Spike Dup (EH63001-MSD1) | Source | e: 6H28009 | 9-06 | Prepared: 0 | 8/29/06 A | nalyzed: 08 | 8/30/06 | | |
| Carbon Ranges C6-C12 | 530 | 10.0 | mg/kg dry | 524 | ND | 101 | 75-125 | 1.68 | 20 |
| Carbon Ranges C12-C28 | 489 | 10.0 | " | 524 | ND | 93.3 | 75-125 | 0.00 | 20 |
| Carbon Ranges C28-C35 | ND | 10.0 | U U | 0.00 | ND | | 75-125 | | 20 |
| Total Hydrocarbons | 1020 | 10.0 | ч | 1050 | ND | 97.1 | 75-125 | 0.976 | 20 |
| Surrogate: 1-Chlorooctane | 59.6 | | mg/kg | 50.0 | | 119 | 70-130 | | |
| Surrogate: 1-Chlorooctadecane | 45.7 | | " | 50.0 | | 91.4 | 70-130 | | |

Batch EH63002 - Solvent Extraction (GC)

| Blank (EH63002-BLK1) | | | | Prepared: 08/29/ | /06 Analyzed: 08 | /30/06 | , |
|----------------------------------|------|------|-----------|------------------|------------------|--------|---|
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | |
| Surrogate: 1-Chlorooctañe | 47.5 | | mg/kg | 50.0 | 95.0 | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 41.5 | | " | 50.0 | 83.0 | 70-130 | |
| LCS (EH63002-BS1) | | | | Prepared: 08/29 | /06 Analyzed: 08 | /30/06 | |
| Carbon Ranges C6-C12 | 585 | 10.0 | mg/kg wet | 500 | 117 | 75-125 | |
| Carbon Ranges C12-C28 | 498 | 10.0 | н | 500 | 99.6 | 75-125 | |
| Carbon Ranges C28-C35 | ND | 10.0 | н | 0.00 | | 75-125 | |
| Total Hydrocarbons | 1080 | 10.0 | " | 1000 | 108 | 75-125 | |
| Surrogate: 1-Chlorooctane | 59.4 | | mg/kg | 50.0 | 119 | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 49.5 | | n | 50.0 | 99.0 | 70-130 | |
| Calibration Check (EH63002-CCV1) | | | | Prepared: 08/29 | /06 Analyzed: 08 | /30/06 | |
| Carbon Ranges C6-C12 | 204 | | mg/kg | 250 | 81.6 | 80-120 | |
| Carbon Ranges C12-C28 | 215 | | | 250 | 86.0 | 80-120 | |
| Total Hydrocarbons | 419 | | " | 500 | 83.8 | 80-120 | |
| Surrogate: 1-Chlorooctane | 55.3 | | " | 50.0 | 111 | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 45.8 | | " | 50.0 | 91.6 | 70-130 | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Fax: (432) 682-3946

Organics by GC - Quality Control

Project Manager: Ike Tavarez

Environmental Lab of Texas

| | | Rep | porting | | Spike | Source | | %REC | | RPD | |
|---------|---|-------|---------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | R | esult | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch EH63002 - Solvent Extraction (GC)

| Matrix Spike (EH63002-MS1) | Source | e: 6H29004 | f-01 | Prepared: 0 | 8/29/06 A | nalyzed: 08 | 8/30/06 | | | |
|---------------------------------|--------|------------|-----------|-------------|-----------|-------------|---------|-------|----|--|
| Carbon Ranges C6-C12 | 643 | 10.0 | mg/kg dry | 614 | ND | 105 | 75-125 | | | |
| Carbon Ranges C12-C28 | 563 | 10,0 | " | 614 | 25.9 | 87.5 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | •• | 0.00 | 4.53 | | 75-125 | | | |
| Total Hydrocarbons | 1210 | 10.0 | " | 1230 | 25.9 | 96.3 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 59.3 | | mg/kg | 50.0 | | 119 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.9 | | " | 50.0 | | 91.8 | 70-130 | | | |
| Matrix Spike Dup (EH63002-MSD1) | Source | e: 6H29004 | 4-01 | Prepared: 0 | 8/29/06 A | nalyzed: 08 | 8/30/06 | | | |
| Carbon Ranges C6-C12 | 647 | 10,0 | mg/kg dry | 614 | ND | 105 | 75-125 | 0.620 | 20 | |
| Carbon Ranges C12-C28 | 581 | 10.0 | н. | 614 | 25.9 | 90.4 | 75-125 | 3.15 | 20 | |
| Carbon Ranges C28-C35 | ND | 10.0 | н | 0,00 | 4.53 | | 75-125 | | 20 | |
| Total Hydrocarbons | 1230 | 10.0 | н | 1230 | 25.9 | 97.9 | 75-125 | 1.64 | 20 | |

mg/kg

"

50.0

50.0

121

95.4

70-130

70-130

60.3

47.7

Batch EH63004 - EPA 5030C (GC)

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

| Blank (EH63004-BLK1) | | | | Prepared & Anal | lyzed: 08/29/06 | | | |
|-----------------------------------|------|--------|-----------|-----------------|-----------------|--------|----------|--|
| Benzene | ND | 0.0250 | mg/kg wet | | | | <u> </u> | |
| Toluene | ND | 0.0250 | ** | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | |
| Xylene (p/m) | ND | 0.0250 | " | | | | | |
| Xylene (o) | ND | 0.0250 | " | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 44.0 | | ug/kg | 40.0 | 110 | 80-120 | | |
| Surrogate: 4-Bromofluorobenzene | 36.1 | | " | 40.0 | 90.2 | 80-120 | | |
| LCS (EH63004-BS1) | | | | Prepared & Ana | lyzed: 08/29/06 | | | |
| Benzene | 1.40 | 0.0250 | mg/kg wet | 1.25 | 112 | 80-120 | | |
| Toluene | 1.48 | 0.0250 | " | 1.25 | 118 | 80-120 | | |
| Ethylbenzene | 1.20 | 0.0250 | н | 1.25 | 96.0 | 80-120 | | |
| Xylene (p/m) | 2.95 | 0.0250 | " | 2.50 | 118 | 80-120 | | |
| Xylene (o) | 1.35 | 0.0250 | U. | 1.25 | 108 | 80-120 | | |
| Surrogate: a,a,a-Trifluorotoluene | 47.1 | | ug/kg | 40.0 | 118 | 80-120 | | |
| Surrogate: 4-Bromofluorobenzene | 43.2 | | n | 40.0 | 108 | 80-120 | | |

Environmental Lab of Texas

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Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724

Project Manager: Ike Tavarez

Organics by GC - Quality Control

Environmental Lab of Texas

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch EH63004 - ÉPA 5030C (GC) | | | | | | • | | | | |

| Calibration Check (EH63004-CCV1) | | | Prepared: 08/29/ | 06 Analyzed: 0 | 8/30/06 |
|-----------------------------------|------|-------|------------------|----------------|---------|
| Benzene | 46.9 | ug/kg | 50.0 | 93,8 | 80-120 |
| Toluene | 50.9 | 11 | 50.0 | 102 | 80-120 |
| Ethylbenzene | 55.2 | п | 50.0 | 110 | 80-120 |
| Xylene (p/m) | 112 | 11 | 100 | 112 | 80-120 |
| Xylene (0) | 54.7 | " | 50.0 | 109 | 80-120 |
| Surrogate: a,a,a-Trifluorotoluene | 45.3 | " | 40.0 | 113 | 80-120 |
| Surrogate: 4-Bromofluorobenzene | 44.8 | " | 40.0 | 112 | 80-120 |

| Matrix Spike (EH63004-MS1) | Sour | ce: 6H2801(| 0-02 | Prepared: 0 | 8/29/06 A | nalyzed: 0 | 8/30/06 |
|-----------------------------------|------|-------------|------------|-------------|-----------|------------|---------|
| Benzene | 1.24 | 0.0250 | ıng/kg dry | 1.27 | ND | 97.6 | 80-120 |
| Toluene | 1.36 | 0.0250 | " | 1.27 | ND | 107 | 80-120 |
| Ethylbenzene | 1.27 | 0.0250 | u | 1.27 | ND | 100 | 80-120 |
| Xylene (p/m) | 2.93 | 0.0250 | | 2.54 | ND | 115 | 80-120 |
| Xylene (0) | 1.34 | 0.0250 | п | 1.27 | ND | 106 | 80-120 |
| Surrogate: a,a,a-Trifluorotoluene | 40.5 | | ug/kg | 40.0 | | 101 | 80-120 |
| Surrogate: 4-Bromofluorobenzene | 43.9 | | " | 40.0 | | 110 | 80-120 |

| Matrix Spike Dup (EH63004-MSD1) | Sour | ce: 6H28010 | 0-02 | Prepared: 0 | 8/29/06 A | nalyzed: 0 | 8/30/06 | | |
|-----------------------------------|------|-------------|-----------|-------------|-----------|------------|---------|-------|----|
| Benzene | 1,17 | 0.0250 | mg/kg dry | 1.27 | ND | 92.1 | 80-120 | 5.80 | 20 |
| Toluene | 1.29 | 0.0250 | и | 1.27 | ND | 102 | 80-120 | 4.78 | 20 |
| Ethylbenzene | 1.25 | 0.0250 | н | 1.27 | ND | 98.4 | 80-120 | 1.61 | 20 |
| Xylene (p/m) | 2.74 | 0.0250 | " | 2.54 | ND | 108 | 80-120 | 6.28 | 20 |
| Xylene (o) | 1.36 | 0.0250 | " | 1.27 | ND | 107 | 80-120 | 0.939 | 20 |
| Surrogate: a,a,a-Trifluorotoluene | 33.5 | | ug/kg | 40.0 | | 83.8 | 80-120 | | |
| Surrogate: 4-Bromofluorohenzene | 37.9 | | n | · 40.0 | | 94.8 | 80-120 | | |

Environmental Lab of Texas

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| Highlander Environmental Corp. | | Pr | oject: Cl | ayton Willian | ns/SWR/Fa | rnsworth Fe | ed. B TB | | Fax: (432) 682-3946 | | |
|-------------------------------------|----------------|--------------------|------------|----------------|------------------|-------------|----------------|------|---------------------|-------|--|
| 1910 N. Big Spring St. | | Project Nu | mber: 27 | 24 | | | | | | | |
| Midland TX, 79705 | | Project Man | nager: Ike | e Tavarez | | | | | | | |
| General C | Chemistry Para | • | | | | ds - Qua | lity Con | trol | | | |
| | · <u> </u> | Environm | ental I | Lab of Te | xas | | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
| Batch EH63005 - General Preparation | (Prep) | | | | | | | | | | |
| Blank (EH63005-BLK1) | | | | Prepared: (| 08/29/06 A | nalyzed: 08 | 8/30/06 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | <u> </u> | | |
| Duplicate (EH63005-DUP1) | Sou | rce: 6H28009- | -01 | Prepared: (| 08/29/06 A | nalyzed: 08 | 3/30/06 | | | | |
| % Moisture | 2.1 | 0.1 | % | | 2.5 | | <u></u> | 17.4 | 20 | | |
| Duplicate (EH63005-DUP2) | Sou | rce: 6H28010- | 17 | Prepared: (| 08/29/06 A | nalyzed: 08 | 3/30/06 | | | | |
| % Moisture | 9.5 | 0.1 | % | | 9.2 | | | 3.21 | 20 | | |
| Duplicate (EH63005-DUP3) | Sou | rce: 6H29004- | •03 | Prepared: (| 08/29/06 A | nalyzed: 08 | 3/30/06 | | | | |
| % Moisture | 8.8 | 0.1 | % | | 7.3 | | | 18.6 | 20 | | |
| Batch EH63020 - Water Extraction | | | | | | | | | | | |
| Blank (EH63020-BLK1) | | | | Prepared 8 | & Analyzed | : 08/30/06 | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | ···- | | | |
| LCS (EH63020-BS1) | | | | Prepared 8 | & Analyzed | : 08/30/06 | | | | | |
| Chloride | 10.5 | 0.500 | mg/kg | 10.0 | | 105 | 80-120 | | | | |
| Calibration Check (EH63020-CCV1) | | | | Prepared & | & Analyzed | : 08/30/06 | | | | | |
| Chloride | 9.95 | * | mg/L | 10.0 | ····· | 99.5 | 80-120 | | | | |
| Duplicate (EH63020-DUP1) | Sou | rce: 6H28009 | -02 | Prepared & | & Analyzed | : 08/30/06 | | | | | |
| Chloride | 247 | 10.0 | mg/kg | | 273 | | | 10.0 | 20 | | |
| Duplicate (EH63020-DUP2) | Sou | Irce: 6H28010 | -01 | Prepared & | & Analyzed | : 08/30/06 | | | | | |
| Chloride | 371 | 10.0 | mg/kg | | 429 | | | 14.5 | 20 | | |

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.

Page 14 of 16

| Highlander Environmental Corp. | | Pr | oject: Cla | ayton Willian | ns/SWR/Fa | rnsworth Fe | d. B TB | | Fax: (432) | 682-3946 |
|----------------------------------|--------------|--------------------|------------|----------------|------------------|-------------|----------------|------|--------------|----------|
| 1910 N. Big Spring St. | | Project Nu | mber: 27 | 24 | | | | | | |
| Midland TX, 79705 | | Project Mar | | | | | | | | |
| General Ch | emistry Para | • | | | | is - Qua | lity Con | trol | | |
| | _ | Environm | ental L | Lab of ley | xas | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch EH63020 - Water Extraction | | | | | | | | | | |
| Matrix Spike (EH63020-MS1) | Sou | rce: 6H28009- | -02 | Prepared & | 2 Analyzed: | 08/30/06 | | | | |
| Chloride | 462 | 10.0 | ıng/kg | 200 | 273 | 94.5 | 80-120 | | | |
| Matrix Spike (EH63020-MS2) | Sou | rce: 6H28010- | -01 | Prepared & | 2 Analyzed | : 08/30/06 | | | | |
| Chloride | 662 | 10.0 | mg/kg | 200 | 429 | 116 | 80-120 | | | |
| Batch EH63021 - Water Extraction | | | | | | | | | | |
| Blank (EH63021-BLK1) | | | | Prepared & | 2 Analyzed | : 08/30/06 | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EH63021-BS1) | | | | Prepared & | k Analyzed | : 08/30/06 | | | | |
| Chloride | 11.0 | 0.500 | mg/kg | 10.0 | | 110 | 80-120 | | | |
| Calibration Check (EH63021-CCV1) | | | | Prepared 8 | k Analyzed | : 08/30/06 | | | | |
| Chloride | 10.1 | | mg/L | 10.0 | | 101 | 80-120 | | | |
| Duplicate (EH63021-DUP1) | Sou | ırce: 6H28010- | -11 | Prepared 8 | & Analyzed | : 08/30/06 | | | | |
| Chloride | 553 | 10.0 | mg/kg | | 541 | | | 2.19 | 20 | |
| Duplicate (EH63021-DUP2) | Sou | irce: 6H28012 | -04 | Prepared 8 | & Analyzed | : 08/30/06 | | | | |
| Chloride | 3.95 | 5.00 | mg/kg | | 4.51 | | | 13.2 | 20 | |
| Matrix Spike (EH63021-MS1) | Soi | ırce: 6H28010 | -11 | Prepared 8 | & Analyzed | : 08/30/06 | | | | |
| Chloride | 787 | 10.0 | mg/kg | 200 | 541 | 123 | 80-120 | | | S- |
| Matrix Spike (EH63021-MS2) | So | ırce: 6H28012 | -04 | Prepared & | & Analyzed | : 08/30/06 | | | | |
| Chloride | 105 | 5.00 | mg/kg | 100 | 4,51 | 100 | 80-120 | | | |

Environmental Lab of Texas

Project: Clayton Williams/SWR/Farnsworth Fed. B TB Project Number: 2724 Project Manager: Ike Tavarez

Fax: (432) 682-3946

- S-07 Recovery outside Laboratory historical or method prescribed limits.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Kaland K Just

8/31/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Page 16 of 16

| 1910 N. Big Spring St. Пали, Техав 79705 Тах (432) 662-3546 Пали, Техав 79705 Midlland, Texas 79705 Fast (432) 662-3546 Fast (432) 662-3546 Fast (432) 662-3546 Midlland, Texas 79705 Fast (432) 662-3546 Fast (432) 662-3546 Fast (432) 662-3546 Midlland, Texas 79705 Fast (432) 662-3546 Fast (432) 662-3546 Fast (432) 662-3546 Midlland, Texas 79705 Fast (432) 662-3546 Fast (432) 662-662 Fast (432) 662-662 Startus Excention Startus Excention Eactor Excention Fast (432) 662-662 Fast (432) 662-662 Startus Excention Startus Excention Eactor Excention Eactor Excention Fast (442) Fast (442) Startus Excention Startus Excention Eactor Excention Eactor Excention Fast (441) Fast (441) Startus Excention Startus Excention Eactor Excention Fast (441) Fast (441) Fast (441) Fast (441) Startus Excention Startus Excention Eactor Excention Fast (441) Fast (441) <td< th=""><th>HIGHLANDER</th><th>EN</th><th>and Chain of Custody ENVIRONMENTAL C</th><th>CORP.</th><th>ANALYSIS RE ircle or Specify</th><th>QUEST Kethod No.)</th></td<> | HIGHLANDER | EN | and Chain of Custody ENVIRONMENTAL C | CORP. | ANALYSIS RE ircle or Specify | QUEST Kethod No.) |
|---|------------------|----------------|---|--|---|------------------------------------|
| Scorth Last Scor | (432) 682-4559 | | Fax | 432) 682-3946 [°] | । अड ¹⁹ म 9त - २२ 19 मि रते - २२ | (ep |
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| PAGE: C | Circle or Specify Method | 1 | 5 БН ВН 9001 | १त - | -20 I -20 I -20 F | 28/09 | Aa Ma 11ea | 100 100 100 100 100 100 100 100 | (05) (05 | LCLE RON LCLE RON LCLE RON LCLE RON LER ROLLE RO | × | | X | 7 | | | | | | | SAMPLED BY, (Print & Sign) JEREPUT / JOSCH | | SAU (UENERU DELLARED) | ECHANDED CONTACT DEPENDING | | Ike Tauarez | 1 . 1 | RELOI SIPUL MGING |
| ly Record | | CURP. | | | (432) 082-3940 | PRESERVATIVE | | (13/ | (x) | GLER DU NONE ICE HNO3 HCT MONDER | | X | X | X | | | | X | X | | Date: Time: | Date: | 1100%. | Time: | 1-1-1 | ISSS BURNE | REMARKS: N.Y. | toz gizs an ice w/laris rozas |
| d Chain of Custody | | VVIRONMENTAL CORP. | Π. | 79705 | Fax | SITE MANAGER: | the lavates | The ser is the 10 | | SAMPLE DENTIFICATION | 1-1.5 | 2.0 5 | • • • | | 1-6.5 | 0.7-2 | 0-1 | 1-1.5 | 2-2.5 | | X/OC RECEIVED BY: (Signature) | RECENTED BT: (Signature) | Derration BV. (Standium) | (emised) to retened | RECEIVED BY. (Mgratura) | 111 08-28-06 | A-AIT 30-Solid StShides 0-Other | LINDO-O ANDRAR-TH (TOS-S) |
| s Request and | | HIGHLANDER ENVIRO | 1910 N. | Midland, Texas | | Southcest | ł | Sture Frozer NAME: | 4 | E COMP WATRIX MATRIX H MATRIX | 12 | X | T | Τ | | | S NAH-S | S NAH-S | S XAH-S | | mature) Date: 2/3 | | | Dature) Jace: | ELT | STATE: 77 EP: | | - WINNY CONTON |
| Analvsis | | HIGI | th inge mark | | (432) 682-4559 | CLIENT NAME: | Citeyten williams | FROJECT NO.: ししてつ | | LAB I.D. DATE NUMBER 6H2Solu | -11 8.85.00 | | y i | 2 | 2 | <u></u> | 2 | -17 | 8- | | RELINQUISHED RY: (Senature) | (empaning) :XB GEHEUDAUTER | | KELINGUISHED BY: (Signature) | RECEIVING LABORATORY: ADDRESS- | CUTY, Colesso | STRPLE CONDITION THEN RECEIVED: 4,0,C | |

A second sec second sec

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

| Client: | Highlander Env. |
|-------------|-----------------|
| Date/ Time: | 08-28-04 @ 1555 |
| Lab ID # : | 6H28010 |
| initials: | JMM |

Sample Receipt Checklist

| | | | | Client Ini | tiais |
|-----------------|--|-------|----|--------------------------|-------|
| #1 | Temperature of container/ cooler? | Yes | No | 4.0 °C | |
| | 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? | Tes | No | | |
| <i>‡</i> 6 | Sample instructions complete of Chain of Custody? | tes | No | _ | |
| <i>‡</i> 7 | Chain of Custody signed when relinquished/ received? | Tes | No | | |
| # 8 | Chain of Custody agrees with sample label(s)? | Tes | No | ID written on Cont./ Lid | _ |
| ŧ9 | Container label(s) legible and intact? | (es) | No | Not Applicable | |
| ±10 | Sample matrix/ properties agree with Chain of Custody? | (es) | No | | |
| £11 | Containers supplied by ELOT? | (res) | No | | |
| £12 | Samples in proper container/ bottle? | (Tes) | No | See Below | |
| ¹ 13 | Samples properly preserved? | res | No | See Below | |
| 14 | Sample bottles intact? | (es) | 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 | VOC samples have zero headspace? | (res) | No | Not Applicable | |

Variance Documentation

| contact: | | Contacted by: | Date/ Time: | |
|------------------------|-----|--|-----------------------|---|
| egarding: | | | | • |
| | | | | |
| orrective Action Taken | : · | | | |
| | | | | |
| | | ····· | | |
| heck all that Apply: | | See attached e-mail/ fax Client understands and would like to | proceed with analysis | |

Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event

APPENDIX C

NMOCD Form C-141

į

District I XXX 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

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

| Release Notification and Corrective Action OPERATOR X Initial Report Initial Report Name of Company SOUTHWEST ROYALTES, INC. Contact. DAWN M HOWARD Facility Name FARNSWORTH FEDERAL B #5 Facility Type OIL WELL Surface Owner VARIOUS.SEE ATTACKED Mineral Owner Lease No. LC030180B Surface Owner VARIOUS.SEE ATTACKED Mineral Owner Lease No. LC030180B Unit Latie Section Township Range Feet from the North/Soath Line Lease No. LC030180B Unit Latie Section Township Range Feet from the North/Soath Line Lease No. LC030180B Surface Owner VARIOUS ASEE ATTACKED Month/Soath Line Feet from the North/Soath Line Lease North/Soath Line County 2 265 37E 1980 S Jonguted North/Soath Line Surface Or Release OIL Nature Or Release Linknown Volume Recovered 125 (welly-165 (weny) Yme or Release Null blow out at well head, tanks overthowed & Jonguted North/Soath Line North/Soath Line Surface Or Release OIL NoR 2/25200 130 AM. CT Was Iomedia | 1 | 1220 S. St. Franc | sis Dr., Santa | a Fe, NM 87505 | 5 | Sa | inta I | Fe, NM 875 | 05 | | | | | side of form |
|---|---|-------------------|------------------------------|------------------|---------------------------|--|-------------------|---------------------------------------|--------------------|--------------------------|--------------------------|------------------------------|-------------|--------------------------|
| Name of Company. SOUTHIVEST ROYALTIES, INC. Contact DAWN M. HOWARD Address 6 DESTA DR, ST 2100, MDLAND, DX 79705 Telephone No. 432/683-3267 Facility Name, FARNSWORTH FEDERAL B #5 Facility Type OIL WELL Easity Type OIL WELL Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B Lint Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 1 7 265 37E 1980 s 660 W LEA Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B East/West Line County 1 7 265 37E 1980 s 660 W LEA Surface Or Release OH Kating Houne of Release Line County LEA Manne of Courtence Yape of Release OH Not Required Volume of Release Line of Courtence Date and Hour of Discovery small leaks in tanks Yes Not Required Parts Nohon 22300 11:30 A.M. CT PX306 11:30 A.M. CT <th></th> <th><u></u></th> <th></th> <th></th> <th>Rele</th> <th></th> <th>والتر ويتحدث</th> <th></th> <th></th> <th>ction</th> <th></th> <th></th> <th></th> <th></th> | | <u></u> | | | Rele | | والتر ويتحدث | | | ction | | | | |
| Name of Company. SOUTHWEST ROYALTIES, INC. Contact DAWN M. HOWARD Address 6 DESTA DR, 87 2100, MULLAND, TX 79705 Telephone No. 432/688-3267. Facility Name FARNSWORTH FEDERAL B #5 Facility Type OIL WELL. Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B Lot Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County L 7 26S 37B 1980 S 660 W LEA Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B Lease Not West Line County L 7 26S 37B 1980 S 660 W LEA Source of Release Off. Nat URE ON COLLARSE Volume of Release Unknown Volume Recovered 125 (well)+145 (brey) Source of Release Off. Nat and floor of Courrence Bate and Hour of Discovery small leaks in tanks Ver [] No [] Net Required Parts and floor of 2206 11:30 A.M. CT B2306 11:30 A.M. CT Was Inmin | | | | | | | | OPER | ATOR | | X Initia | al Report | | Final Report |
| Facility Name FARNSWORTH FEDERAL B #5 Facility Type OL WELL Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B Location of the section Township Range Feet from the Bast/West Line County L 7 265 37B 1980 5 660 W LEA Value Longitude NATURE OF RELEASE Type of Release OIL Volume of Release Unknown Volume Recovered 123 (nell)+145 (btry) Source of Release OIL Value Value Date and Hour of Discovery Source of Release OIL Volume Recovered 123 (nell)+145 (btry) Trype of Release Date and Hour of Discovery Source of Release OIL Value No In on Required Parts VolcEMAIL 505300-0720 EXT 109 By Whon? DAWN HOWADD Date and Hour of Carrence Parts VolcEMAIL 505300-0720 EXT 109 By Whon? DAWN HOWADD Date and Hour of Carrence Parts VolcEMAIL 505300-0720 EXT 109 By Whon? DAWN HOWADD Date and Hour of Carrence Parts VolcEMAIL 505300-0720 EXT 109 By Whon? Dawn CT If a Watercourse Reach | ſ | Name of Co | mpany S | OUTHWES | T ROYA | LTIES, INC. | | Contact D | DAWN M. HOW | VARD | | | | |
| Surface Owner VARIOUS -SEE ATTACHED Mineral Owner Lease No. LC030180B Loc ATION OF RELEASE Loc ATION OF RELEASE Unit Letter Section Township Range Feel from the North/South Line Feel from the East/West Line County L 7 26S 37E 1980 S 660 W LEA Latitude Longitude Longitude NATURE OF RELEASE Volume Recovered 125 (well)+145 (btry) Source of Release Oll North/South Line Yes North/South Line Source of Release Yppe of Release Oll North Parts Yo (North 82306 1130 A.M. CT Was Immediate Notice Given? X Yes No North Required PAT'S YO/CEMAIL Soly390-0720 EXT 109 PX By Whon? DAWN HOWARD Date and Hour 82/306 1130 A.M. CT Was a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Reenedial Action Taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to bub wolf the well stream of thewell at the well stream of thew orest of cour | Ī | Address | 6 DESTA | DR, ST 210 | 00, MIDI | AND, TX 7970 |)5 | Telephone N | No. 432/688-32 | 67 | | | | |
| LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the Leas/West Line County 1 7 268 37E 1980 5 660 W LEA Latitude Longitude NATURE OF RELEASE Type of Release OIL Volume of Release Units of Release Volume of Release Units of Release Volume of Release North/South Line Surge of Release OIL North/South Career Bate and Hour of Discovery 82306 11:30 AM. CT 82306 11:30 AM. CT Was Immediate Notice Given? X Yes No Nort Required PAT'S VOLCEMAIL Sof300-0720 EXT 109 PM Was a Watercourse Reached? Yes x No HYES, Yolume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow of the well and the wellhead. Taken &* The well ass branded thip Manded Extremental Was contacted and is currently on location assessing damages, taking samples and will be providing their recommended termental action. Taken.* | [| Facility Nan | ne FARI | NSWORTH | FEDERA | AL B #5 | | Facility Typ | e OIL WELL | | | | | |
| LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 1 7 268 37E 1980 5 660 W LEA Latitude Longitude NATURE OF RELEASE Type of Release OIL Volume of Release Volume Recovered 125 (well)+145 (btny) Source of Release OIL Volume of Release Using of Release Date and Hour of Discovery Samuel tesks in tanks X yes No Not Required PAT'S VOLCEMAIL 505/390-0720 EXT 109 By Mom? DAWN HOWARD Date and Hour 823/06 11:30 A.M. CT Was a Watercourse Reached? If YES, To Whom? Mas a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* If a Watercourse was Impacted, Describe Fully.* Describe Area Affected and Cleamp Action Taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow of the well at the wellshead Action taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of g | [| Surface Ow | ner VARI | OUS -SEE A | TTACH | ED Mineral (| Jwner | • | | | Lease N | Io. LC030 | 180B | |
| Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County L 7 26S 37E 1980 S 660 W LEA Latitude Longitude NATURE OF RELEASE Type of Release OIL Volume of Release Unknown Volume Recovered 125 (well)+145 (berry) Source of Release OIL Volume of Release Unknown Volume Recovered 125 (well)+145 (berry) Source of Release OIL Volume of Release Unknown Volume Recovered 125 (well)+145 (berry) Source of Release OIL Volume of Occurrence 823/06 11:30 A.M. CT 823/06 11:30 A.M. CT Was Immediate Notice Given? X Yes No Not Required PAT's VolICEMAIL 505/390-0720 EXT 169 By Whon? DAWN HOWARD Date and Hour 8/23/06 11:30 A.M. CT 1130 A.M. CT Was a Watercourse Reached? If YEs, VolLemAIL 505/390-0720 EXT 169 PAT's VolCEMAIL 505/390-0720 EXT 169 Describe Cause of Problem and Remedial Action Taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow of the well at the wellhemd | L | Burlace O Wi | | | | | | | | | 200001 | | 1002 | |
| L 7 26S 37E 1980 S 660 W LEA Latitude Longitude NATURE OF RELEASE Type of Release Oll Outme Recovered 125 (well)+145 (bny) Source of Release Mol bow out at well head, tanks overflowed & Date and Hour of Discovery B2306 11:30 A.M. CT B22306 11:30 A.M. CT Was Immediate Notice Given? X Yes No Not Required PAT'S VOICEMAIL 505/390-0720 EXT 109 By Whon? DAWN HOWARD Date and Hour S2306 11:30 A.M. CT Was a Watercourse Reached? If YES, VOILme Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow off the well at the wellhead. The tanks were also four any and overflowed and were found to have small leaks. There were actually two areas of contamination being 1) approximately 2 to 4 acres of over spay from the wellhead and 2) the battery—on the pad, overdrive area and extending into the pasture. Describe Area Affected and Cleanup Action Taken.* The well was brought under control by choke installation. All free standing oil was vacuuned up (125 BF at the well site and 145 BF | ſ | Linit Lattor | Section | Tourshin | Pange | | ····· | | | Fast/W | ect Line | County | | |
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| 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: Printed Name: Dawn M. Howard Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com Conditions of Approval: | | | | | | | | | | , | • | | | |
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| 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 Signature: Approved by District Supervisor: Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com Conditions of Approval; | I | public health | or the envi | ironment Th | to report a e accentan | nd/or file certain c_141 rep | release | the NMOCD m | ind perform corre | ctive acti | ons for rel | leases which | n may e | endanger of lighility |
| 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 Signature: Approved by District Supervisor: Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com Conditions of Approval: | | should their | operations | have failed to | adequatel | y investigate and | remed | liate contaminat | ion that pose a th | reat to gr | ound wate | r, surface w | ater, h | uman health |
| Signature: OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Dawn M. Howard Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com | I | or the enviro | nment. In a | addition, NM | OCD acce | ptance of a C-141 | repor | t does not reliev | ve the operator of | responsi | bility for c | compliance | with ar | ny other |
| Signature: Approved by District Supervisor: Printed Name: Dawn M. Howard Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com | | tederal, state | , or local la | iws and/or reg | ulations. | | | · · · · · · · · · · · · · · · · · · · | | (OPDV) | | DIVICI | | |
| Printed Name: Dawn M. Howard Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com Conditions of Approval: | | | | | | | | | <u>OIL CON</u> | ISERV | ATION | DIVISIO | <u>JN</u> | |
| Printed Name: Dawn M. Howard Title: Operations Assistant E-mail Address: dhoward@claytonwilliams.com Conditions of Approval: | | Signature: | | | | | | 4 | | | | | | |
| Title: Operations Assistant Approval Date: Expiration Date: E-mail Address: dhoward@claytonwilliams.com Conditions of Approval | | Printed Nam | e: Dawn N | A. Howard | | | | Approved by | District Supervis | sor: | | | | |
| E-mail Address: dhoward@clavtonwilliams.com | | | | ······ | | | | | | | | · | | |
| E-mail Address: dhoward@claytonwilliams.com Conditions of Approval: | | litle: | Operati | ions Assistant | | | | Approval Da | ite: | I I | Expiration | Date: | | |
| I Attached I 1 | | E-mail Addr | ess: dhowa | rd@claytonw | illiams.com | n | | Conditions o | f Approval: | | | Attache | зП | |
| Date: 8/24/06 Phone: 432/688-3267 | | Date: 8/ | /24/06 | | Phone: 43 | 32/688-3267 | | | | | | , machine | | |

* Attach Additional Sheets If Necessary

SITE INFORMATION

Type of Report: ASSESSMENT AND WORK PLAN

| General Site Info | rmation: | | | |
|---|--|---------------------------------------|--|--|
| Site: | | | | nsworth Federal B Tank Battery |
| Company: | | Southwest Roya | alties, Inc. | |
| Vell Location: | · | Section 7, T26S | , R37E, Unit Letter | · L |
| ank Battery Loc | ation: | Section 7, T26S | , R37E, Unit Letter | ·L |
| ease Number: | | LC 030180B | ۵. ۲ | |
| County: | | Lea | | |
| Spill Area GPS: | | 32.05586, 103.20 | 0828 | |
| Surface Owner: | | El Paso | | |
| Mineral Owner: | | - | | |
| Directions: | | At Jal, New Mexico | o, intersection of 3 Rd | I. Street and Hwy. 128, go 6.1 miles (south) on |
| | | 3rd. Street, Turn le | eft (east) into lease ro | ad and go 1.5 miles to Y, at Y turn left (south) and |
| | | | ······································ | e or 1.6 miles to well #5 on left side |
| | <u> </u> | | a sallery on right side | |
| | | | | |
| the second | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 8/23/2006 | | |
| Date Released: | | 0il | | |
| Type Release: | | | | |
| Source of Conta Fluid Released: | mination: | unknown | en #5 and tank batt | tery tank overflowed |
| -luids Recovered | d: | |) and 145 barrels (ta | ank batten) |
| | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| Name: | Dawn M. Ho | | | Ike Tavarez |
| Company: | | loyaties, Inc. | | Highlander Environmental Corp. |
| Address: | 6 Desta Dr., | St 2100 | | 1910 N. Big Spring |
| P.O. Box | | | | |
| City: | Midland Tex | as, 79705 | | Midland, Texas |
| Phone number: | (432) 688-32 | 267 | | (432) 682- 4559 |
| Fax: | (432) 688-32 | | | (432) 682- 3946 |
| Email: | | claytonwilliams.com | | itavarez@hec-enviro.com |
| Ranking Criteria | ومرادلا البابا المستعلم فينتجي وتراكر فالأعا | | | |
| turing officing | μ. · · · · · · · · · · · · · · · · · · · | | | |
| Depth to Groundw | ater: | | Ranking Score | Site Data |
| <50 ft | | | 20 | ···· |
| 50-99 ft >100 ft. | | | 10 0 | Orester 1001 |
| 100 11. | | | | Greater 100' |
| NellHead Protecti | on: | | Ranking Score | Site Data |
| Nater Source <1,0 | | <200 ft. | 20 | None |
| Nater Source >1,0 | 00 ft., Private | >200 ft. | 0 | None |
| | /ater: | | Ranking Score | Site Data 1516 17 |
| Surface Body of M | · · · · · · · · · · · · · · · · · · · | · | 20 | Site Data |
| <200 ft. | | | 10 | Noner A |
| <200 ft. 200 ft - 1,000 ft. | | · · · · · · · · · · · · · · · · · · · | 0 | None |
| <200 ft. 200 ft - 1,000 ft. | | · · · · · · · · · · · · · · · · · · · | | |
| Surface Body of M <200 ft. 200 ft - 1,000 ft. >1,000 ft. Tota | al Ranking S | Score: | 10 | UUT 2003 |
| <200 ft. 200 ft - 1,000 ft. >1,000 ft. | al Ranking S | Score: | 10 | Received |
| <200 ft. 200 ft - 1,000 ft. >1,000 ft. | al Ranking S | | 10 Ie Soll RRAL (mg/ | kg) |
| <200 ft. 200 ft - 1,000 ft. >1,000 ft. | al Ranking S | | | Hohbs |