

SITE INFORMATION

Report Type: Closure Report

| | | | | | |
|------------------------------------|---|-------|------|--------------|--|
| General Site Information: | | | | | |
| Site: | Willow "A" State Tank Battery | | | | |
| Company: | COG Operating LLC | | | | |
| Section, Township and Range | Unit J | Sec 3 | T25S | R28E | |
| Lease Number: | API-30-015-33012 | | | | |
| County: | Eddy County | | | | |
| GPS: | 32.15751° N | | | 104.07456° W | |
| Surface Owner: | State | | | | |
| Mineral Owner: | | | | | |
| Directions: | Starting in Malaga on Hwy 285, travel south on Hwy 285 for 4.6 miles site is on west side of the highway. | | | | |
| | | | | | |
| | | | | | |

| | |
|---------------------------------|------------------|
| Release Data: | |
| Date Released: | 1/31/2011 |
| Type Release: | Oil |
| Source of Contamination: | Circulating Pump |
| Fluid Released: | 24 bbls |
| Fluids Recovered: | 23 bbls |

| | | | |
|--------------------------------|-----------------------------|--|----------------------------|
| Official Communication: | | | |
| Name: | Pat Ellis | | Ike Tavarez |
| Company: | COG Operating, LLC | | Tetra Tech |
| Address: | 550 W. Texas Ave. Ste. 1300 | | 1910 N. Big Spring |
| P.O. Box | | | |
| City: | Midland Texas, 79701 | | Midland, Texas |
| Phone number: | (432) 686-3023 | | (432) 425-3878 |
| Fax: | (432) 684-7137 | | |
| Email: | pellis@conchoresources.com | | ike.tavarez@tetrattech.com |

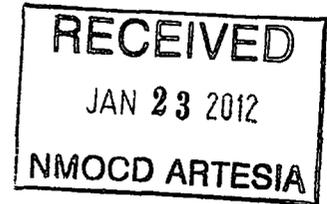
| | | |
|---|----------------------|------------------|
| Ranking Criteria | | |
| Depth to Groundwater: | Ranking Score | Site Data |
| <50 ft | 20 | 20 |
| 50-99 ft | 10 | |
| >100 ft. | 0 | |
| Wellhead Protection: | Ranking Score | Site Data |
| Water Source <1,000 ft., Private <200 ft. | 20 | |
| Water Source >1,000 ft., Private >200 ft. | 0 | 0 |
| Surface Body of Water: | Ranking Score | Site Data |
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | 0 |
| Total Ranking Score: | | 20 |

| Acceptable Soil RRAL (mg/kg) | | |
|------------------------------|-------------------|------------|
| Benzene | Total BTEX | TPH |
| 10 | 50 | 100 |



TETRA TECH

December 7, 2011



Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

Re: Closure Report for the COG Operating LLC., Willow "A" State Tank Battery, Unit J, Section 3, Township 25 South, Range 28 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Willow "A" State Tank Battery located in Unit J, Section 3, Township 25 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.15751°, W 104.07456°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on January 31, 2011, and released approximately twenty four (24) barrels of oil from the circulating pump. To alleviate the problem, COG personnel repaired the pump. Twenty three (23) barrels of standing fluids were recovered. The spill was contained inside of the tank battery affecting an area of approximately 45' x 140'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 3. The New Mexico State Engineer Well Reports showed one well in Section 4, with a groundwater depth of 35' below surface. According to the NMOCD groundwater map, the average depth to groundwater in this area is less than 50' below surface. The average depth to water map is shown in Appendix B.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (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 upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On February 15, 2011, Tetra Tech personnel inspected and sampled the spill area. A total of five (5) auger holes (AH-1 through AH-4 and a background auger hole) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, auger holes (AH-1, AH-2 and AH-3) were below the RRAL for TPH and BTEX. Auger hole (AH-4) had a total TPH concentration of 131 mg/kg (0-1') and declined below the RRAL at (1-1.5').

Auger holes (AH-1, AH-2 and AH-3) showed chloride concentrations ranging from 425 mg/kg to 1,650 mg/kg. The chloride concentrations declined with depth and showed bottom samples (auger holes) of AH-1 (<200 mg/kg at 5-5.5'), AH-2 (465 mg/kg at 4-4.5') and AH-3 (878 mg/kg at 2.5'-3.0'). The background auger hole showed a chloride high of 352 mg/kg at 3-3.5' below surface. The remaining auger hole (AH-4) did not show a chloride impact to the area.



TETRA TECH

Closure Activities

Based on the approved work plan, Tetra Tech personnel supervised the excavation of the site. The final excavation depths of the soil remediation were met or exceeded, as stated in the approved work plan. A total of 160 cubic yards of soil were excavated and hauled away for proper disposal. The excavation depths are highlighted in Table 1 and shown on Figure 4. The excavations were backfilled with clean soil to grade.

As stated in the work plan, a trench was installed in the area of AH-3 to define extents. The trench sample results are shown in Table 1. Referring to Table 1, the chloride concentrations declined with depth.

Based on the approved remedial activities performed, COG requests closure of the site. A copy of the C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the remedial activities, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavaraz, PG
Senior Project Manager

cc: Pat Ellis – COG

FIGURES

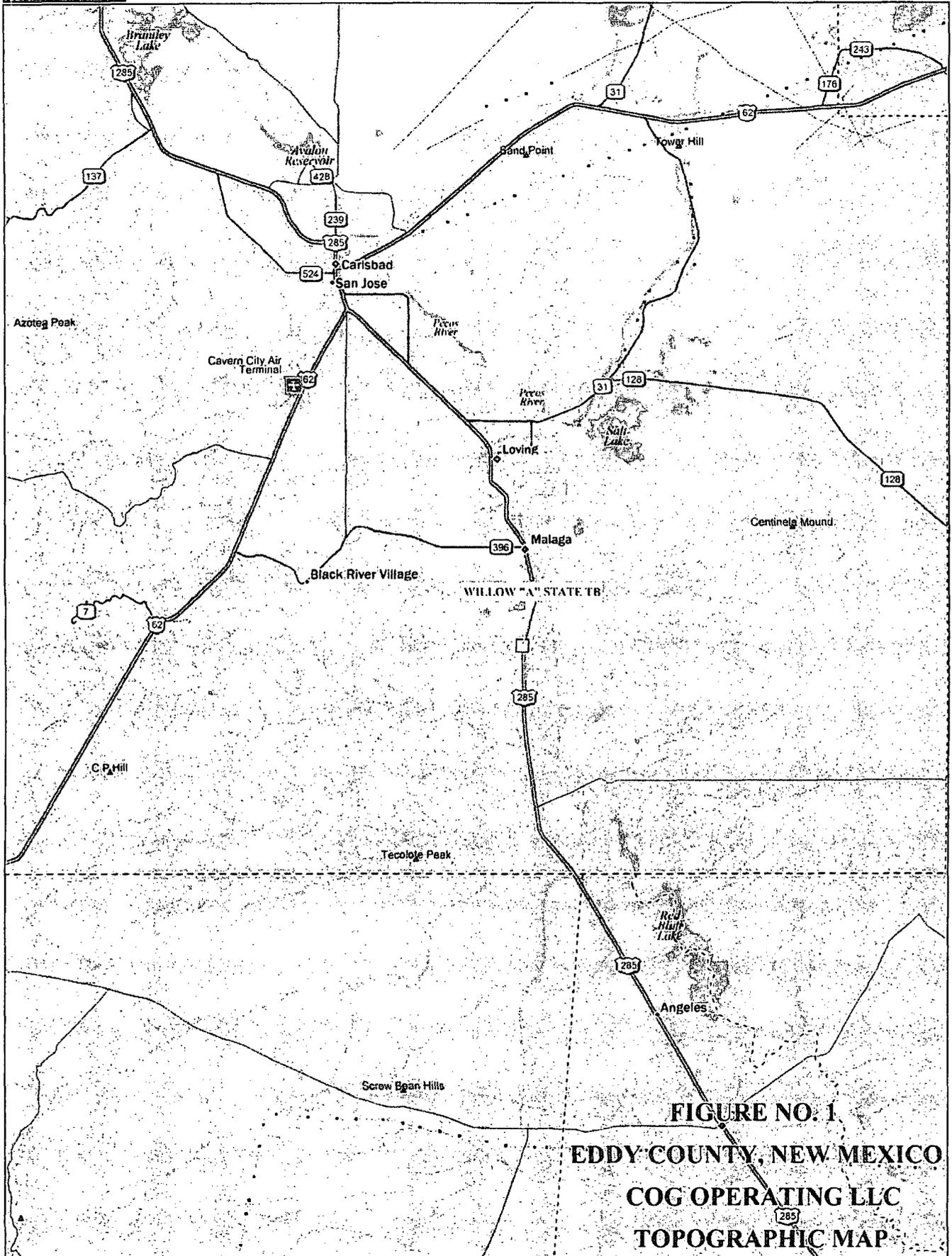
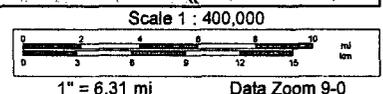
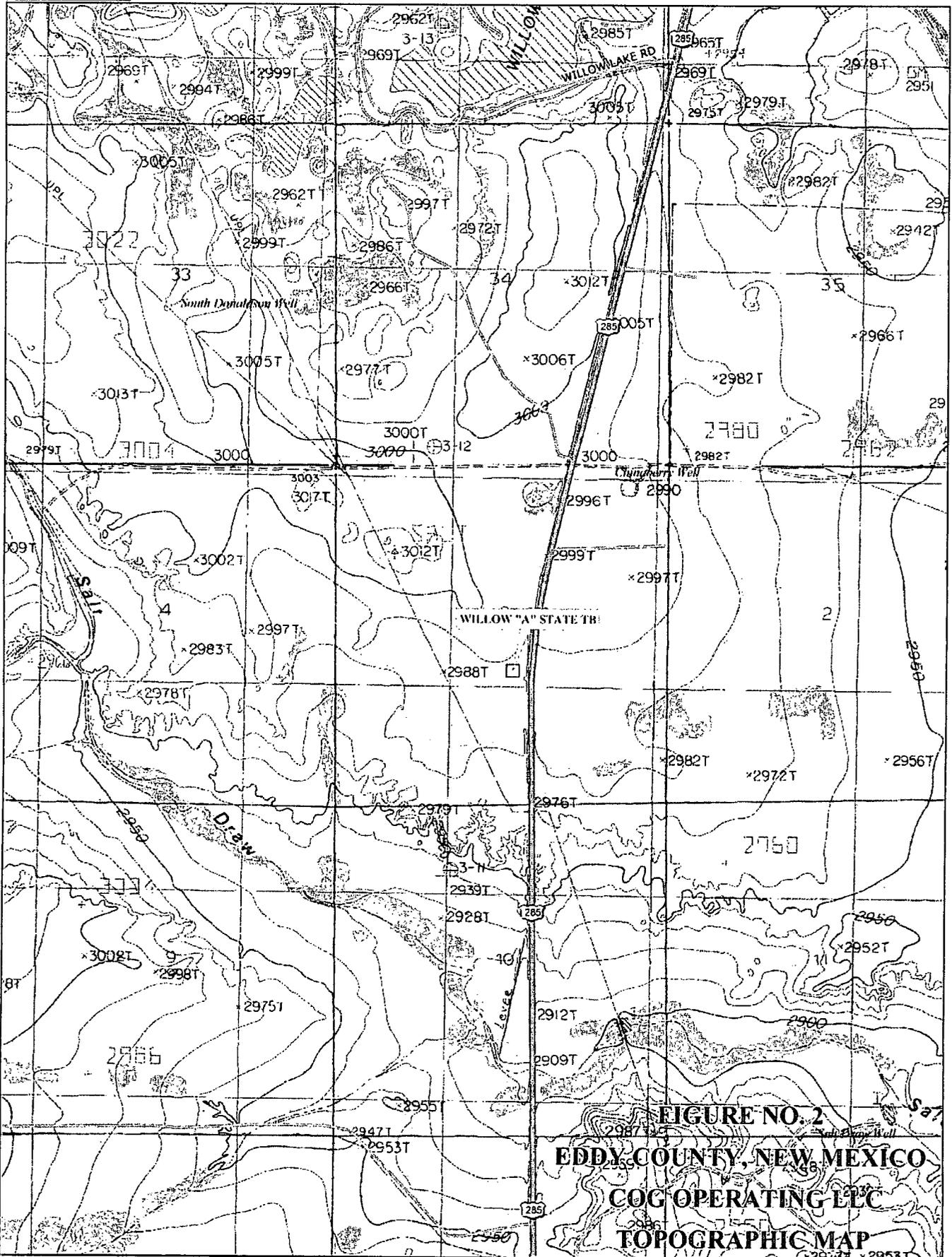


FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
COG OPERATING LLC
TOPOGRAPHIC MAP

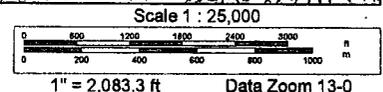


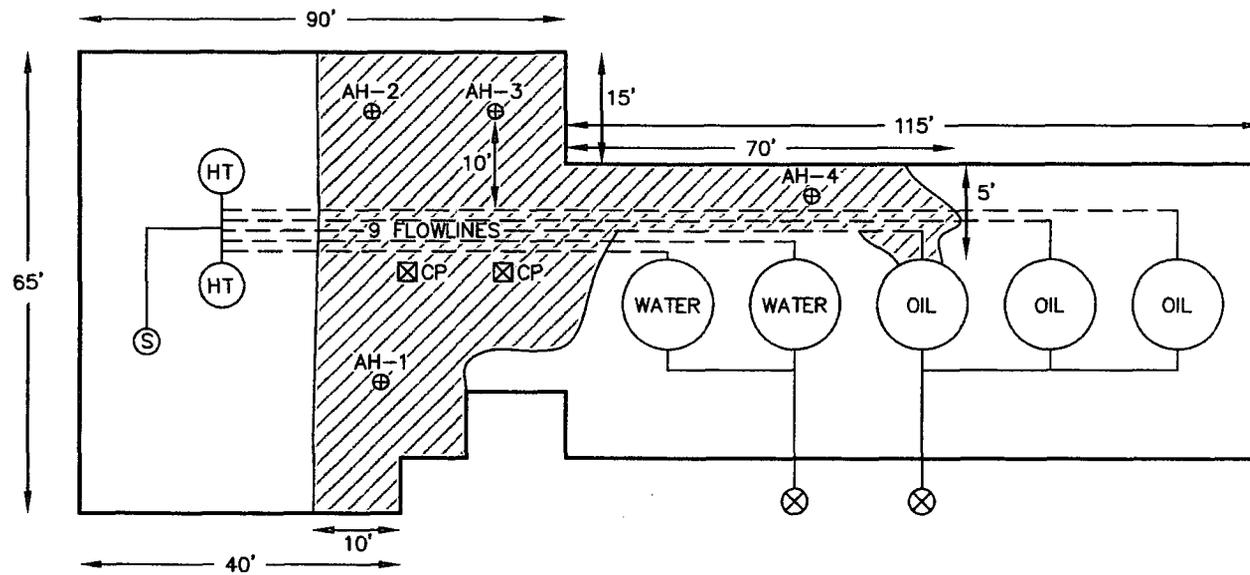


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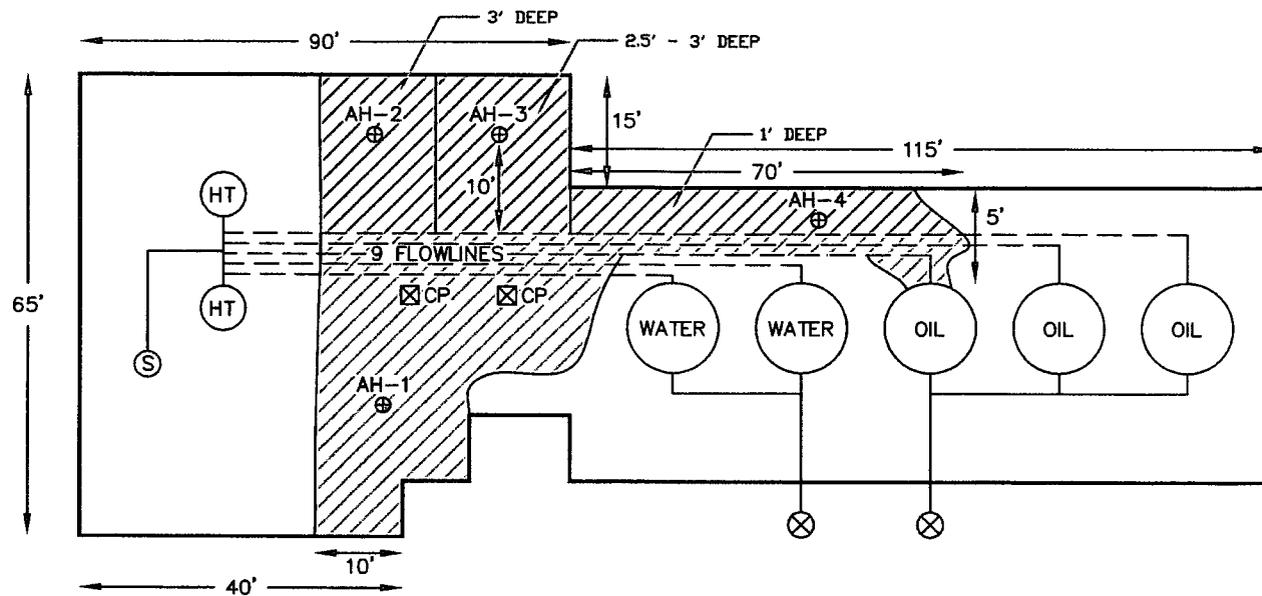
☒ SPILL AREA
⊕ SAMPLE LOCATIONS

NOT TO SCALE

DATE:
2/15/11
DWN. BY:
JJ
FILE:
H:\COG\0400017
WILLOW A STATE TB

FIGURE NO. 3

| |
|------------------------------------|
| EDDY COUNTY, NEW MEXICO |
| COG OPERATING LLC |
| WILLOW "A" STATE TB |
| TETRA TECH, INC. MIDLAND, TEXAS |



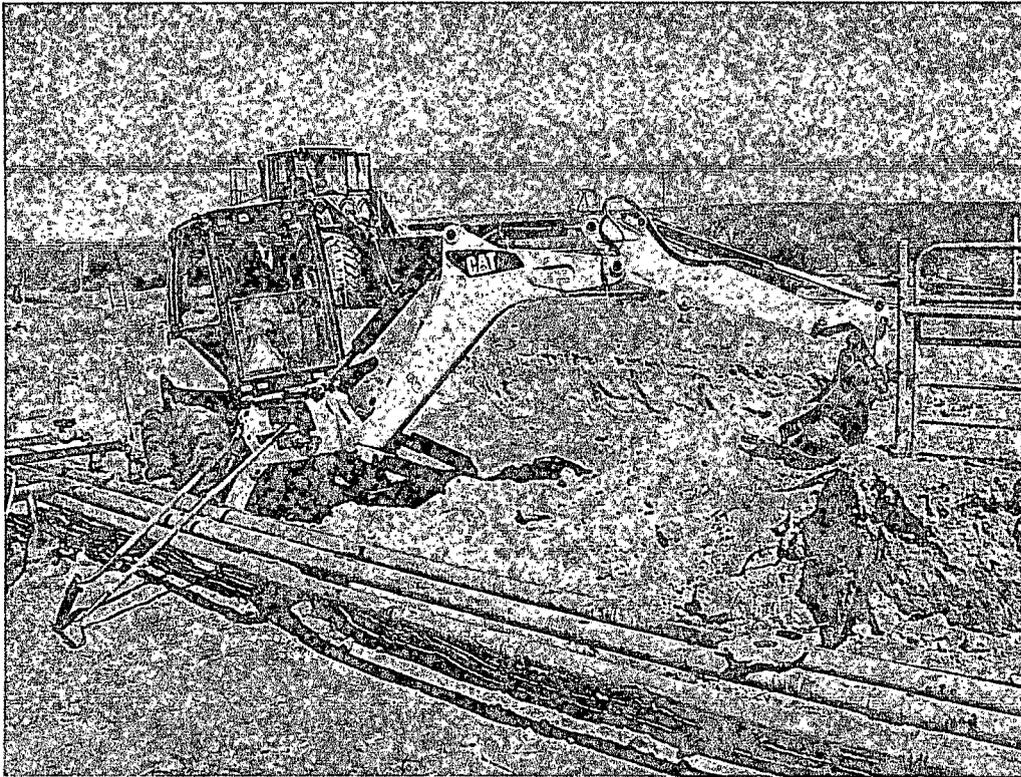
-  SPILL AREA
-  EXCAVATED AREA (1.0' DEEP)
-  EXCAVATED AREA (2.5' TO 3.0' DEEP)
-  EXCAVATED AREA (3.0' DEEP)
-  SAMPLE LOCATIONS

NOT TO SCALE

DATE:
12/9/2011
DWN. BY:
IM
FILE:
H:\COG\9400817
WILLOW A STATE TB

| |
|---------------------------------------|
| FIGURE NO. 4 |
| EDDY COUNTY, NEW MEXICO |
| COG OPERATING LLC |
| WILLOW "A" STATE TB EXCAVATION MAP |
| TETRA TECH, INC. MIDLAND, TEXAS |

PHOTOS



View North West – AH-3 and AH-2



Trench in area of AH-3

TABLES

Table 1
COG Operating LLC.
WILLOW "A" TANK BATTERY
Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Depth (BEB) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|-------------|---------|-------------|-------|-------|-----------------|-----------------|----------------------|----------------|------------------|
| | | | | In-Situ | Removed | GRO | DRO | Total | | | | | |
| AH-4 | 2/15/2011 | 0-1' | 1' | | X | 131 | <50.0 | 131 | <0.0200 | 0.236 | 0.346 | 1.22 | <200 |
| | " | 1-1.5' | 1' | X | | <2.00 | <50.0 | <50.0 | - | - | - | - | <200 |
| | " | 2-2.5' | 1' | X | | - | - | - | - | - | - | - | <200 |
| | " | 3-3.5' | 1' | X | | - | - | - | - | - | - | - | <200 |
| | | | | | | | | | | | | | |
| BG | 4/14/2011 | 0-1' | | X | | - | - | - | - | - | - | - | <200 |
| | " | 1-1.5' | | X | | - | - | - | - | - | - | - | <200 |
| | " | 2-2.5' | | X | | - | - | - | - | - | - | - | <200 |
| | " | 3-3.5' | | X | | - | - | - | - | - | - | - | 352 |

BEB Below Excavation Bottom

(--) Not Analyzed

 Excavated material

APPENDIX A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

| | | | |
|-----------------|--|---------------|--------------|
| Name of Company | COG OPERATING LLC | Contact | Pat Ellis |
| Address | 550 W. Texas, Suite 100, Midland, TX 79701 | Telephone No. | 432-230-0077 |
| Facility Name | Willow "A" State | Facility Type | Tank Battery |

| | | | | | |
|---------------|-------|---------------|--|------------------|--------------|
| Surface Owner | State | Mineral Owner | | Lease No. (API#) | 30-015-33012 |
|---------------|-------|---------------|--|------------------|--------------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| J | 3 | 25S | 28E | | | | | Eddy |

Latitude 32 09.454 Longitude 104 04.456

NATURE OF RELEASE

| | | | | | |
|-----------------------------|--|---|------------|----------------------------|---------------------|
| Type of Release | Oil | Volume of Release | 24bbbs | Volume Recovered | 23bbbs |
| Source of Release | Circulating pump | Date and Hour of Occurrence | 01/31/2011 | Date and Hour of Discovery | 01/31/2011 5:00a.m. |
| Was Immediate Notice Given? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | | | |
| By Whom? | | Date and Hour | | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |

If a Watercourse was Impacted, Describe Fully.*

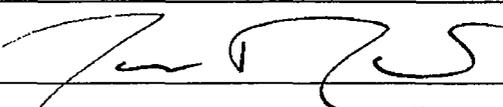
Describe Cause of Problem and Remedial Action Taken.*

¼" nipple on circulating pump started leaking when the pump was turned on, due to worn out threads. The nipple and valves have been replaced and the circulating pump has been put back into service.

Describe Area Affected and Cleanup Action Taken.*

Initially 24bbbs was released from the circulating pump and we were able to recover 23bbbs with a vacuum truck. All released oil was completely contained inside the dike walls of the facility. The facility will be scraped and the contaminated soil will be disposed of appropriately. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

| | | | |
|--|-------------------------|----------------------------------|-----------------------------------|
| Signature:  | | OIL CONSERVATION DIVISION | |
| Printed Name: Josh Russo | | Approved by District Supervisor: | |
| Title: HSE Coordinator | Approval Date: | Expiration Date: | |
| E-mail Address: jrusso@conchoresources.com | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date: 02/04/2011 Phone: 432-212-2399 | | | |

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|-------------------------------------|
| Name of Company COG Operating LLC | Contact Pat Ellis |
| Address 550 W. Texas, Suite 1300 Midland, Texas 79701 | Telephone No. (432) 230-0077 |
| Facility Name Willow "A" State | Facility Type Tank Battery |

| | | |
|----------------------|---------------|-------------------------------|
| Surface Owner: State | Mineral Owner | Lease No. (API#) 30-015-33012 |
|----------------------|---------------|-------------------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|--------------|---------------|------------------|---------------|----------------|----------------|
| Unit Letter J | Section 3 | Township 25S | Range 28E | Feet from the | North/South Line | Feet from the | East/West Line | County Eddy |
|------------------|--------------|-----------------|--------------|---------------|------------------|---------------|----------------|----------------|

Latitude 32 09.454 Longitude 104 04.456

NATURE OF RELEASE

| | | |
|---|--|--|
| Type of Release: Oil | Volume of Release 24 bbls | Volume Recovered 23 bbls |
| Source of Release: Circulating pump | Date and Hour of Occurrence 1/31/2011 | Date and Hour of Discovery 1/31/2011 5:00a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour 3/15/10 4:59 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*

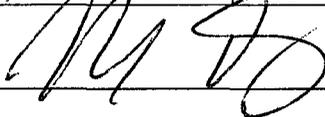
Describe Cause of Problem and Remedial Action Taken.*

¼" nipple on circulating pump started leaking when the pump was turned on, due to worn out threads. The nipple and valves have been replaced and the circulating pump has been put back into service.

Describe Area Affected and Cleanup Action Taken.*

The spill footprint remained inside the facilities firewall; Tetra Tech inspected the site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled away for proper disposal. The site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

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

| | | |
|--|----------------------------------|-----------------------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Ike Tavarez | Approved by District Supervisor: | |
| Title: Project Manager | Approval Date: | Expiration Date: |
| E-mail Address: Ike.Tavarez@TetraTech.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 12/11/11 Phone: (432) 682-4559 | | |

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - Willow "A" State
Eddy County, New Mexico

24 South 27 East

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 26 | 9 | 10 | 11 |
| 18 | 17 | 43 | 16 | 15 | 14 |
| 34 | 20 | 21 | 22 | 23 | 24 |
| 19 | 20 | 21 | 70 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

24 South 28 East

| | | | | | | | | | | |
|----|----|----|----|----|----|----|---|----|---|----|
| 6 | 70 | 5 | 30 | 4 | 30 | 3 | 2 | 55 | 1 | 60 |
| 7 | 8 | 50 | 9 | 10 | 11 | 12 | | | | |
| 18 | 17 | 16 | 15 | 14 | 13 | | | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | | | | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | | | | |
| 31 | 32 | 33 | 34 | 35 | 36 | | | | | |

24 South 29 East

| | | | | |
|-----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 |
| 7 | 8 | 9 | 10 | 11 |
| 160 | 17 | 16 | 15 | 14 |
| 18 | 17 | 16 | 15 | 14 |
| 19 | 20 | 21 | 22 | 23 |
| 30 | 29 | 28 | 27 | 26 |
| 31 | 32 | 33 | 34 | 35 |

25 South 27 East

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

25 South 28 East

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

25 South 29 East

| | | | | |
|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 |
| 7 | 8 | 9 | 10 | 11 |
| 40 | 17 | 16 | 15 | 14 |
| 18 | 17 | 16 | 15 | 14 |
| 19 | 20 | 21 | 22 | 23 |
| 30 | 29 | 28 | 27 | 26 |
| 31 | 32 | 33 | 34 | 35 |

26 South 27 East

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

26 South 28 East

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

26 South 29 East

| | | | | |
|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 |
| 7 | 8 | 9 | 10 | 11 |
| 18 | 17 | 16 | 15 | 14 |
| 19 | 20 | 21 | 22 | 23 |
| 30 | 29 | 28 | 27 | 26 |
| 31 | 32 | 33 | 34 | 35 |

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data

APPENDIX C

Summary Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: August 31, 2011

Work Order: 11082220



Project Location: Eddy Co., NM
Project Name: COG/Willow "A" State Tank Battery
Project Number: 114-6400817

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------------|--------|------------|------------|---------------|
| 275193 | Trench-1 5' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |
| 275194 | Trench-1 7' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |
| 275195 | Trench-1 9' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |

Sample: 275193 - Trench-1 5' "AH-3"

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 784 | mg/Kg | 4 |

Sample: 275194 - Trench-1 7' "AH-3"

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 656 | mg/Kg | 4 |

Sample: 275195 - Trench-1 9' "AH-3"

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 323 | mg/Kg | 4 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 31, 2011

Work Order: 11082220



Project Location: Eddy Co., NM
Project Name: COG/Willow "A" State Tank Battery
Project Number: 114-6400817

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------------|--------|------------|------------|---------------|
| 275193 | Trench-1 5' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |
| 275194 | Trench-1 7' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |
| 275195 | Trench-1 9' "AH-3" | soil | 2011-08-15 | 00:00 | 2011-08-22 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

| | |
|------------------------------------|----------|
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Case Narrative

Samples for project COG/Willow "A" State Tank Battery were received by TraceAnalysis, Inc. on 2011-08-22 and assigned to work order 11082220. Samples for work order 11082220 were received intact at a temperature of 11.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|---------------|---------------------|-------------|---------------------|
| Chloride (Titration) | SM 4500-Cl B | 71539 | 2011-08-25 at 12:17 | 84349 | 2011-08-30 at 13:02 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11082220 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 275193 - Trench-1 5' "AH-3"

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 84349 Date Analyzed: 2011-08-30 Analyzed By: AR
Prep Batch: 71539 Sample Preparation: 2011-08-25 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 784 | mg/Kg | 50 | 4.00 |

Sample: 275194 - Trench-1 7' "AH-3"

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 84349 Date Analyzed: 2011-08-30 Analyzed By: AR
Prep Batch: 71539 Sample Preparation: 2011-08-25 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 656 | mg/Kg | 50 | 4.00 |

Sample: 275195 - Trench-1 9' "AH-3"

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 84349 Date Analyzed: 2011-08-30 Analyzed By: AR
Prep Batch: 71539 Sample Preparation: 2011-08-25 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 323 | mg/Kg | 50 | 4.00 |

Report Date: August 31, 2011
114-6400817

Work Order: 11082220
COG/Willow "A" State Tank Battery

Page Number: 5 of 8
Eddy Co., NM

Method Blanks

Method Blank (1) QC Batch: 84349

QC Batch: 84349
Prep Batch: 71539

Date Analyzed: 2011-08-30
QC Preparation: 2011-08-25

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 84349 Date Analyzed: 2011-08-30 Analyzed By: AR
Prep Batch: 71539 QC Preparation: 2011-08-25 Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 95.3 | mg/Kg | 1 | 100 | <3.85 | 95 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 104 | mg/Kg | 1 | 100 | <3.85 | 104 | 85 - 115 | 9 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 275195

QC Batch: 84349 Date Analyzed: 2011-08-30 Analyzed By: AR
Prep Batch: 71539 QC Preparation: 2011-08-25 Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 10500 | mg/Kg | 100 | 10000 | <385 | 102 | 79.4 - 120.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 11200 | mg/Kg | 100 | 10000 | <385 | 109 | 79.4 - 120.6 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

QC Batch: 84349

Date Analyzed: 2011-08-30

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 99.0 | 99 | 85 - 115 | 2011-08-30 |

Standard (CCV-1)

QC Batch: 84349

Date Analyzed: 2011-08-30

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 101 | 101 | 85 - 115 | 2011-08-30 |

Appendix

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

Summary Report

Ike Tavarez
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX 79705

Report Date: February 28, 2011

Work Order: 11021807



Project Location: Eddy Co., NM
 Project Name: COG/Willow A TB
 Project Number: 114-6400817

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------------|--------|------------|------------|---------------|
| 257838 | AH-1 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257839 | AH-1 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257840 | AH-1 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257841 | AH-1 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257842 | AH-1 4-4.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257843 | AH-1 5-5.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257844 | AH-2 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257845 | AH-2 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257846 | AH-2 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257847 | AH-2 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257848 | AH-2 4-4.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257849 | AH-3 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257850 | AH-3 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257851 | AH-3 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257852 | AH-3 2.5-3' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257853 | AH-4 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257854 | AH-4 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257855 | AH-4 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257856 | AH-4 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |

| Sample - Field Code | BTEX | | | | TPH DRO - NEW | TPH GRO |
|-----------------------------|--------------------|--------------------|-------------------------|-------------------|----------------|----------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 257838 - AH-1 0-1' 1' BEB | <0.0200 | <0.0200 | <0.0200 | 0.477 | <50.0 | 22.7 |
| 257844 - AH-2 0-1' 1' BEB | <0.0200 | <0.0200 | <0.0200 | 0.379 | <50.0 | 3.03 |
| 257849 - AH-3 0-1' 1' BEB | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 | <2.00 |
| 257853 - AH-4 0-1' 1' BEB | <0.0200 | 0.236 | 0.346 | 1.22 | <50.0 | 131 |
| 257854 - AH-4 1-1.5' 1' BEB | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 | <2.00 |

Sample: 257838 - AH-1 0-1' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 518 | mg/Kg | 4.00 |

Sample: 257839 - AH-1 1-1.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 735 | mg/Kg | 4.00 |

Sample: 257840 - AH-1 2-2.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 953 | mg/Kg | 4.00 |

Sample: 257841 - AH-1 3-3.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1020 | mg/Kg | 4.00 |

Sample: 257842 - AH-1 4-4.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 425 | mg/Kg | 4.00 |

Sample: 257843 - AH-1 5-5.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 257844 - AH-2 0-1' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1130 | mg/Kg | 4.00 |

Sample: 257845 - AH-2 1-1.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1350 | mg/Kg | 4.00 |

Sample: 257846 - AH-2 2-2.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1650 | mg/Kg | 4.00 |

Sample: 257847 - AH-2 3-3.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1120 | mg/Kg | 4.00 |

Sample: 257848 - AH-2 4-4.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 465 | mg/Kg | 4.00 |

Sample: 257849 - AH-3 0-1' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 981 | mg/Kg | 4.00 |

Sample: 257850 - AH-3 1-1.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1630 | mg/Kg | 4.00 |

Sample: 257851 - AH-3 2-2.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1570 | mg/Kg | 4.00 |

Sample: 257852 - AH-3 2.5-3' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 878 | mg/Kg | 4.00 |

Sample: 257853 - AH-4 0-1' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 257854 - AH-4 1-1.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 257855 - AH-4 2-2.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 257856 - AH-4 3-3.5' 1' BEB

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

Ike Tavaréz
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: February 28, 2011

Work Order: 11021807



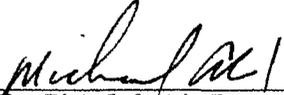
Project Location: Eddy Co., NM
Project Name: COG/Willow A TB
Project Number: 114-6400817

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------------|--------|------------|------------|---------------|
| 257838 | AH-1 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257839 | AH-1 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257840 | AH-1 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257841 | AH-1 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257842 | AH-1 4-4.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257843 | AH-1 5-5.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257844 | AH-2 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257845 | AH-2 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257846 | AH-2 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257847 | AH-2 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257848 | AH-2 4-4.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257849 | AH-3 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257850 | AH-3 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257851 | AH-3 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257852 | AH-3 2.5-3' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257853 | AH-4 0-1' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257854 | AH-4 1-1.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257855 | AH-4 2-2.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |
| 257856 | AH-4 3-3.5' 1' BEB | soil | 2011-02-15 | 00:00 | 2011-02-17 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Samples for project COG/Willow A TB were received by TraceAnalysis, Inc. on 2011-02-17 and assigned to work order 11021807. Samples for work order 11021807 were received intact at a temperature of 7.2 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 66705 | 2011-02-21 at 12:05 | 77804 | 2011-02-21 at 12:05 |
| Chloride (Titration) | SM 4500-Cl B | 66703 | 2011-02-21 at 10:36 | 77797 | 2011-02-21 at 13:20 |
| Chloride (Titration) | SM 4500-Cl B | 66703 | 2011-02-21 at 10:36 | 77798 | 2011-02-21 at 13:21 |
| Chloride (Titration) | SM 4500-Cl B | 66703 | 2011-02-21 at 10:36 | 77799 | 2011-02-21 at 13:22 |
| TPH DRO - NEW | S 8015 D | 66718 | 2011-02-21 at 09:51 | 77781 | 2011-02-21 at 09:51 |
| TPH DRO - NEW | S 8015 D | 66796 | 2011-02-23 at 09:00 | 77882 | 2011-02-23 at 10:07 |
| TPH GRO | S 8015 D | 66705 | 2011-02-21 at 12:05 | 77805 | 2011-02-21 at 12:05 |
| TPH GRO | S 8015 D | 66842 | 2011-02-25 at 08:21 | 77929 | 2011-02-25 at 09:15 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11021807 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 257838 - AH-1 0-1' 1' BEB

| | | |
|---------------------|--------------------------------|---------------------|
| Laboratory: Midland | Analytical Method: S 8021B | Prep Method: S 5035 |
| Analysis: BTEX | Date Analyzed: 2011-02-21 | Analyzed By: ME |
| QC Batch: 77804 | Sample Preparation: 2011-02-21 | Prepared By: ME |
| Prep Batch: 66705 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | | 0.477 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.42 | mg/Kg | 1 | 2.00 | 121 | 51.6 - 149.2 |
| 4-Bromofluorobenzene (4-BFB) | | 2.76 | mg/Kg | 1 | 2.00 | 138 | 35.7 - 159.6 |

Sample: 257838 - AH-1 0-1' 1' BEB

| | | |
|--------------------------------|---------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-C1 B | Prep Method: N/A |
| Analysis: Chloride (Titration) | Date Analyzed: 2011-02-21 | Analyzed By: AR |
| QC Batch: 77797 | Sample Preparation: 2011-02-21 | Prepared By: AR |
| Prep Batch: 66703 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 518 | mg/Kg | 50 | 4.00 |

Sample: 257838 - AH-1 0-1' 1' BEB

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: N/A |
| Analysis: TPH DRO - NEW | Date Analyzed: 2011-02-21 | Analyzed By: kg |
| QC Batch: 77781 | Sample Preparation: 2011-02-21 | Prepared By: kg |
| Prep Batch: 66718 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 84.5 | mg/Kg | 1 | 100 | 84 | 70 - 130 |

Sample: 257838 - AH-1 0-1' 1' BEB

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 77805 Date Analyzed: 2011-02-21 Analyzed By: ME
 Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|-----------|-------|----------|------|
| GRO | | 22.7 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 2.47 | mg/Kg | 1 | 2.00 | 124 | 36.3 - 158.9 |
| 4-Bromofluorobenzene (4-BFB) | | 2.78 | mg/Kg | 1 | 2.00 | 139 | 22.2 - 160.2 |

Sample: 257839 - AH-1 1-1.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|-----------|-------|----------|------|
| Chloride | | 735 | mg/Kg | 50 | 4.00 |

Sample: 257840 - AH-1 2-2.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|-----------|-------|----------|------|
| Chloride | | 953 | mg/Kg | 100 | 4.00 |

Sample: 257841 - AH-1 3-3.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1020 | mg/Kg | 100 | 4.00 |

Sample: 257842 - AH-1 4-4.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 425 | mg/Kg | 50 | 4.00 |

Sample: 257843 - AH-1 5-5.5' 1' BEB

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <200 | mg/Kg | 50 | 4.00 |

Sample: 257844 - AH-2 0-1' 1' BEB

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 77804 Date Analyzed: 2011-02-21 Analyzed By: ME
Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|--------|
| Benzene | | <0.0200 | ug/Kg | 1 | 0.0200 |
| Toluene | | <0.0200 | mg/Kg | 1 | 0.0200 |

continued ...

sample 257844 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Ethylbenzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | | 0.379 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.56 | mg/Kg | 1 | 2.00 | 128 | 51.6 - 149.2 |
| 4-Bromofluorobenzene (4-BFB) | | 2.95 | mg/Kg | 1 | 2.00 | 148 | 35.7 - 159.6 |

Sample: 257844 - AH-2 0-1' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1130 | mg/Kg | 100 | 4.00 |

Sample: 257844 - AH-2 0-1' 1' BEB

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg
 Prep Batch: 66718 Sample Preparation: 2011-02-21 Prepared By: kg

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 86.6 | mg/Kg | 1 | 100 | 87 | 70 - 130 |

Sample: 257844 - AH-2 0-1' 1' BEB

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 77805 Date Analyzed: 2011-02-21 Analyzed By: ME
 Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | 3.03 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.60 | mg/Kg | 1 | 2.00 | 130 | 36.3 - 158.9 |
| 4-Bromofluorobenzene (4-BFB) | | 2.78 | mg/Kg | 1 | 2.00 | 139 | 22.2 - 160.2 |

Sample: 257845 - AH-2 1-1.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1350 | mg/Kg | 100 | 4.00 |

Sample: 257846 - AH-2 2-2.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1650 | mg/Kg | 100 | 4.00 |

Sample: 257847 - AH-2 3-3.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1120 | mg/Kg | 100 | 4.00 |

Sample: 257848 - AH-2 4-4.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 465 | mg/Kg | 50 | 4.00 |

Sample: 257849 - AH-3 0-1' 1' BEB

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 77804 Date Analyzed: 2011-02-21 Analyzed By: ME
 Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.50 | mg/Kg | 1 | 2.00 | 125 | 51.6 - 149.2 |
| 4-Bromofluorobenzene (4-BFB) | | 2.89 | mg/Kg | 1 | 2.00 | 144 | 35.7 - 159.6 |

Sample: 257849 - AH-3 0-1' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 981 | mg/Kg | 50 | 4.00 |

Sample: 257849 - AH-3 0-1' 1' BEB

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: N/A |
| Analysis: TPH DRO - NEW | Date Analyzed: 2011-02-21 | Analyzed By: kg |
| QC Batch: 77781 | Sample Preparation: 2011-02-21 | Prepared By: kg |
| Prep Batch: 66718 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 84.0 | mg/Kg | 1 | 100 | 84 | 70 - 130 |

Sample: 257849 - AH-3 0-1' 1' BEB

| | | |
|---------------------|--------------------------------|---------------------|
| Laboratory: Midland | Analytical Method: S 8015 D | Prep Method: S 5035 |
| Analysis: TPH GRO | Date Analyzed: 2011-02-21 | Analyzed By: ME |
| QC Batch: 77805 | Sample Preparation: 2011-02-21 | Prepared By: ME |
| Prep Batch: 66705 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.54 | mg/Kg | 1 | 2.00 | 127 | 36.3 - 158.9 |
| 4-Bromofluorobenzene (4-BFB) | | 2.66 | mg/Kg | 1 | 2.00 | 133 | 22.2 - 160.2 |

Sample: 257850 - AH-3 1-1.5' 1' BEB

| | | |
|--------------------------------|---------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-Cl B | Prep Method: N/A |
| Analysis: Chloride (Titration) | Date Analyzed: 2011-02-21 | Analyzed By: AR |
| QC Batch: 77798 | Sample Preparation: 2011-02-21 | Prepared By: AR |
| Prep Batch: 66703 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1630 | mg/Kg | 100 | 4.00 |

Sample: 257851 - AH-3 2-2.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 1570 | mg/Kg | 100 | 4.00 |

Sample: 257852 - AH-3 2.5-3' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 878 | mg/Kg | 50 | 4.00 |

Sample: 257853 - AH-4 0-1' 1' BEB

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 77804 Date Analyzed: 2011-02-21 Analyzed By: ME
 Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|--------|
| Benzene | | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | | 0.236 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | | 0.346 | mg/Kg | 1 | 0.0200 |
| Xylene | | 1.22 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.51 | mg/Kg | 1 | 2.00 | 126 | 51.6 - 149.2 |
| 4-Bromofluorobenzene (4-BFB) | ¹ | 3.42 | mg/Kg | 1 | 2.00 | 171 | 35.7 - 159.6 |

¹ High surrogate recovery due to peak interference.

Sample: 257853 - AH-4 0-1' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <200 | mg/Kg | 50 | 4.00 |

Sample: 257853 - AH-4 0-1' 1' BEB

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg
 Prep Batch: 66718 Sample Preparation: 2011-02-21 Prepared By: kg

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 90.2 | mg/Kg | 1 | 100 | 90 | 70 - 130 |

Sample: 257853 - AH-4 0-1' 1' BEB

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 77805 Date Analyzed: 2011-02-21 Analyzed By: ME
 Prep Batch: 66705 Sample Preparation: 2011-02-21 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | 131 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.53 | mg/Kg | 1 | 2.00 | 126 | 36.3 - 158.9 |
| 4-Bromofluorobenzene (4-BFB) | ² | 3.25 | mg/Kg | 1 | 2.00 | 162 | 22.2 - 160.2 |

²High surrogate recovery due to peak interference.

Sample: 257854 - AH-4 1-1.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <200 | mg/Kg | 50 | 4.00 |

Sample: 257854 - AH-4 1-1.5' 1' BEB

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 77882 Date Analyzed: 2011-02-23 Analyzed By: kg
 Prep Batch: 66796 Sample Preparation: 2011-02-23 Prepared By: kg

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| DRO | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 99.2 | mg/Kg | 1 | 100 | 99 | 70 - 130 |

Sample: 257854 - AH-4 1-1.5' 1' BEB

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 77929 Date Analyzed: 2011-02-25 Analyzed By: ME
 Prep Batch: 66842 Sample Preparation: 2011-02-25 Prepared By: ME

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| GRO | | <2.00 | mg/Kg | 1 | 2.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 2.49 | mg/Kg | 1 | 2.00 | 124 | 36.3 - 158.9 |
| 4-Bromofluorobenzene (4-BFB) | | 2.90 | mg/Kg | 1 | 2.00 | 145 | 22.2 - 160.2 |

Sample: 257855 - AH-4 2-2.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <200 | mg/Kg | 50 | 4.00 |

Sample: 257856 - AH-4 3-3.5' 1' BEB

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 77799 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 Sample Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <200 | mg/Kg | 50 | 4.00 |

Method Blank (1) QC Batch: 77781

QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg
 Prep Batch: 66718 QC Preparation: 2011-02-21 Prepared By: kg

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO | | <15.7 | mg/Kg | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 74.8 | mg/Kg | 1 | 100 | 75 | 70 - 130 |

Method Blank (1) QC Batch: 77797

QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
 Prep Batch: 66703 QC Preparation: 2011-02-21 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|----|
| Chloride | | <2.18 | mg/Kg | 4 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 2.38 | mg/Kg | 1 | 2.00 | 119 | 74.6 - 127.8 |
| 4-Bromofluorobenzene (4-BFB) | | 2.50 | mg/Kg | 1 | 2.00 | 125 | 32.9 - 129.8 |

Method Blank (1) QC Batch: 77882

QC Batch: 77882 Date Analyzed: 2011-02-23 Analyzed By: kg
Prep Batch: 66796 QC Preparation: 2011-02-23 Prepared By: kg

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| DRO | | <15.7 | mg/Kg | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | 90.9 | mg/Kg | 1 | 100 | 91 | 70 - 130 |

Method Blank (1) QC Batch: 77929

QC Batch: 77929 Date Analyzed: 2011-02-25 Analyzed By: ME
Prep Batch: 66842 QC Preparation: 2011-02-25 Prepared By: ME

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| GRO | | <0.753 | mg/Kg | 2 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 1.92 | mg/Kg | 1 | 2.00 | 96 | 74.6 - 127.8 |
| 4-Bromofluorobenzene (4-BFB) | | 2.22 | mg/Kg | 1 | 2.00 | 111 | 32.9 - 129.8 |

Laboratory Control Spike (LCS-1)

QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg
Prep Batch: 66718 QC Preparation: 2011-02-21 Prepared By: kg

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|
| DRO | 206 | mg/Kg | 1 | 250 | <15.7 | 82 | 47.5 - 144.1 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 97.4 | mg/Kg | 1 | 100 | <2.18 | 97 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 103 | mg/Kg | 1 | 100 | <2.18 | 103 | 85 - 115 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 77804
Prep Batch: 66705

Date Analyzed: 2011-02-21
QC Preparation: 2011-02-21

Analyzed By: ME
Prepared By: ME

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene | 1.86 | mg/Kg | 1 | 2.00 | <0.0118 | 93 | 76.4 - 118.4 |
| Toluene | 1.92 | mg/Kg | 1 | 2.00 | <0.00600 | 96 | 81.8 - 111.9 |
| Ethylbenzene | 1.94 | mg/Kg | 1 | 2.00 | <0.00850 | 97 | 81.1 - 112.2 |
| Xylene | 5.92 | mg/Kg | 1 | 6.00 | <0.00613 | 99 | 81.7 - 111.5 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | 1.88 | mg/Kg | 1 | 2.00 | <0.0118 | 94 | 76.4 - 118.4 | 1 | 20 |
| Toluene | 1.93 | mg/Kg | 1 | 2.00 | <0.00600 | 96 | 81.8 - 111.9 | 0 | 20 |
| Ethylbenzene | 1.98 | mg/Kg | 1 | 2.00 | <0.00850 | 99 | 81.1 - 112.2 | 2 | 20 |
| Xylene | 5.96 | mg/Kg | 1 | 6.00 | <0.00613 | 99 | 81.7 - 111.5 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 2.05 | 2.03 | mg/Kg | 1 | 2.00 | 102 | 102 | 69 - 123.3 |
| 4-Bromofluorobenzene (4-BFB) | 2.42 | 2.41 | mg/Kg | 1 | 2.00 | 121 | 120 | 64.9 - 131.9 |

Laboratory Control Spike (LCS-1)

QC Batch: 77805
Prep Batch: 66705

Date Analyzed: 2011-02-21
QC Preparation: 2011-02-21

Analyzed By: ME
Prepared By: ME

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO | 17.1 | mg/Kg | 1 | 20.0 | <0.753 | 86 | 61.8 - 97 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO | 17.0 | mg/Kg | 1 | 20.0 | <0.753 | 85 | 61.8 - 97 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 2.13 | 2.07 | mg/Kg | 1 | 2.00 | 106 | 104 | 74.6 - 124 |
| 4-Bromofluorobenzene (4-BFB) | 2.29 | 2.22 | mg/Kg | 1 | 2.00 | 114 | 111 | 53.9 - 121.1 |

Laboratory Control Spike (LCS-1)

QC Batch: 77882
Prep Batch: 66796

Date Analyzed: 2011-02-23
QC Preparation: 2011-02-23

Analyzed By: kg
Prepared By: kg

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|
| DRO | 242 | mg/Kg | 1 | 250 | <15.7 | 97 | 47.5 - 144.1 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO | 241 | mg/Kg | 1 | 250 | <15.7 | 96 | 47.5 - 144.1 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Tricosane | 109 | 115 | mg/Kg | 1 | 100 | 109 | 115 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 77929
Prep Batch: 66842

Date Analyzed: 2011-02-25
QC Preparation: 2011-02-25

Analyzed By: ME
Prepared By: ME

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO | 14.0 | mg/Kg | 1 | 20.0 | <0.753 | 70 | 61.8 - 97 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO | 15.1 | mg/Kg | 1 | 20.0 | <0.753 | 76 | 61.8 - 97 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 1.82 | 1.84 | mg/Kg | 1 | 2.00 | 91 | 92 | 74.6 - 124 |
| 4-Bromofluorobenzene (4-BFB) | 2.17 | 2.20 | mg/Kg | 1 | 2.00 | 108 | 110 | 53.9 - 121.1 |

Matrix Spike (MS-1) Spiked Sample: 258012

QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg
Prep Batch: 66718 QC Preparation: 2011-02-21 Prepared By: kg

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|--------------|
| DRO | 595 | mg/Kg | 1 | 250 | 334 | 104 | 11.7 - 152.3 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO | 709 | mg/Kg | 1 | 250 | 334 | 150 | 11.7 - 152.3 | 18 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|----------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Tricosane ^{3 4} | 142 | 161 | mg/Kg | 1 | 100 | 142 | 161 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 257845

QC Batch: 77797 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 QC Preparation: 2011-02-21 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 11600 | mg/Kg | 100 | 10000 | 1350 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 12000 | mg/Kg | 100 | 10000 | 1350 | 106 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

³High surrogate recovery due to peak interference.

⁴High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 257855

QC Batch: 77798 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 QC Preparation: 2011-02-21 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 10100 | mg/Kg | 100 | 10000 | <218 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 10600 | mg/Kg | 100 | 10000 | <218 | 106 | 85 - 115 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 257874

QC Batch: 77799 Date Analyzed: 2011-02-21 Analyzed By: AR
Prep Batch: 66703 QC Preparation: 2011-02-21 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 10000 | mg/Kg | 100 | 10000 | <218 | 100 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 10400 | mg/Kg | 100 | 10000 | <218 | 104 | 85 - 115 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 257853

QC Batch: 77804 Date Analyzed: 2011-02-21 Analyzed By: ME
Prep Batch: 66705 QC Preparation: 2011-02-21 Prepared By: ME

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene | 1.93 | mg/Kg | 1 | 2.00 | <0.0118 | 96 | 65.5 - 139.8 |
| Toluene | 2.10 | mg/Kg | 1 | 2.00 | 0.2359 | 93 | 70.5 - 137.3 |
| Ethylbenzene | 2.33 | mg/Kg | 1 | 2.00 | 0.3461 | 99 | 66.7 - 151 |
| Xylene | 7.35 | mg/Kg | 1 | 6.00 | 1.2225 | 102 | 68.7 - 149.5 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO | 218 | mg/Kg | 1 | 250 | <15.7 | 87 | 11.7 - 152.3 | 10 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Tricosane | 113 | 101 | mg/Kg | 1 | 100 | 113 | 101 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 258253

QC Batch: 77929 Date Analyzed: 2011-02-25 Analyzed By: ME
Prep Batch: 66842 QC Preparation: 2011-02-25 Prepared By: ME

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO | 14.6 | mg/Kg | 1 | 20.0 | <0.753 | 73 | 63 - 108.5 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO | 16.0 | mg/Kg | 1 | 20.0 | <0.753 | 80 | 63 - 108.5 | 9 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT) | 2.46 | 2.53 | mg/Kg | 1 | 2 | 123 | 126 | 54.1 - 154.3 |
| 4-Bromofluorobenzene (4-BFB) | 2.99 | 3.09 | mg/Kg | 1 | 2 | 150 | 154 | 41.9 - 162.8 |

Standard (CCV-1)

QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO | | mg/Kg | 250 | 208 | 83 | 80 - 120 | 2011-02-21 |

Standard (CCV-2)

QC Batch: 77781 Date Analyzed: 2011-02-21 Analyzed By: kg

Report Date: February 28, 2011
114-6400817

Work Order: 11021807
COG/Willow A TB

Page Number: 27 of 27
Eddy Co., NM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | mg/Kg | 1.00 | 0.872 | 87 | 80 - 120 | 2011-02-25 |

Analysis Request of Chain of Custody Record



TETRA TECH
 1910 N. Big Spring St.
 Midland, Texas 79705
 (432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME: COG SITE MANAGER: Ike Tovar

PROJECT NO.: 114-6400817 PROJECT NAME: COG / Willow 'A' TB

LAB I.D. NUMBER: DATE: TIME: MATRIX: COMP: GRAB: SAMPLE IDENTIFICATION: Eddy Co, NM

NUMBER OF CONTAINERS: FILTERED (Y/N): PRESERVATIVE METHOD: HCL HNO3 ICE NONE

- ITEX B021B
- TX1005 (Ext. to C35)
- PAH B270
- RCRA Metals Ag As Ba Cd Cr Pb Hg Se
- TCLP Metals Ag As Ba Cd Cr Vt Pd Hg Se
- TCLP Volatiles
- TCLP Semi Volatiles
- RCI
- GC-MS Vol. B240/8260/624
- GC-MS Semi. Vol. B270/625
- PCB's B060/608
- Pest. B08/608
- Chloride
- Gamma Spec.
- Alpha Beta (Air)
- PLM (Asbestos)
- Major Anions/Cations, pH, TDS

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE | ANALYSIS REQUEST |
|-----------------|------|------|--------|------|------|-----------------------|----------------------|----------------|-----|------|-----|------|------------------|
| 838 | 2/15 | | S | X | | AH-1 0-1' 1' BEB | 1 | | | | X | | X |
| 839 | | | | | | AH-1 1-1.5' 1' BEB | | | | | | | |
| 840 | | | | | | AH-1 2'-2.5' 1' BEB | | | | | | | |
| 841 | | | | | | AH-1 3'-3.5' 1' BEB | | | | | | | |
| 842 | | | | | | AH-1 4'-4.5' 1' BEB | | | | | | | |
| 843 | | | | | | AH-1 0'-0.5' 1' BEB | | | | | | | |
| 844 | | | | | | AH-2 0-1' 1' BEB | | | | | | | XX |
| 845 | | | | | | AH-2 1-1.5' 1' BEB | | | | | | | |
| 846 | | | | | | AH-2 2-2.5' 1' BEB | | | | | | | |
| 847 | | | | | | AH-2 3'-3.5' 1' BEB | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 2-17-11 Time: 10:00 RECEIVED BY: (Signature) [Signature] Date: 2/17/11 Time: 16:00 SAMPLED BY: (Print & Initial) JTF Date: 2/15/11 Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____ SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____ HAND DELIVERED UPS OTHER: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____ TETRA TECH CONTACT PERSON: Ike Tovar Results by: _____

RECEIVING LABORATORY: Trace RECEIVED BY: (Signature) _____ RUSH Charges Authorized: Yes No

ADDRESS: Trace STATE: TX CITY: _____ PHONE: _____ DATE: _____ TIME: _____

SAMPLE CONDITION WHEN RECEIVED: 7.2°C intact REMARKS: If #1 TPH exceeds 100 mg/kg, run deeper samples / Run ITEX on highest TPH. If total ITEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

All tests - Midland

XWO #: 11021807

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: CCG SITE MANAGER: Ika Tovar

PROJECT NO.: 114-2400217 PROJECT NAME: CCG / Willow 'A' TB

LAB I.D. NUMBER: DATE: TIME: MATRIX: COMP: GRAB: SAMPLE IDENTIFICATION: Edley Co, NM

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | PRESERVATIVE METHOD | | | | | |
|-----------------|------|------|--------|------|------|-----------------------|----------------------|---------------------|-----|------|-----|------|--|
| | | | | | | | | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE | |
| 838 | 7/15 | | S | | | AH-1 0-1' 1 BEB | 1 | | | X | | | |
| 839 | | | | | | AH-1 1-1.5' 1 BEB | | | | | | | |
| 840 | | | | | | AH-1 2'-2.5' 1 BEB | | | | | | | |
| 841 | | | | | | AH-1 3'-3.5' 1 BEB | | | | | | | |
| 842 | | | | | | AH-1 4'-4.5' 1 BEB | | | | | | | |
| 843 | | | | | | AH-1 5'-5.5' 1 BEB | | | | | | | |
| 844 | | | | | | AH-2 0-1' 1 BEB | | | | | | | |
| 845 | | | | | | AH-2 1-1.5' 1 BEB | | | | | | | |
| 846 | | | | | | AH-2 2'-2.5' 1 BEB | | | | | | | |
| 847 | | | | | | AH-2 3'-3.5' 1 BEB | | | | | | | |

| | | | | |
|-------------------------------|---------------------|-------------------------|------------------|------------------------|
| BTX (8021B) | TPH | 8015 MOD | TX1005 | (Ext. to C35) |
| PAH 8270 | PCRA Metals | Ag As Ba Cd Cr Pb Hg Se | TCLP Metals | Ag As Ba Cd V Pb Hg Se |
| TCLP Volatiles | TCLP Semi Volatiles | RCI | GC-MS Vol. | 8240/8260/824 |
| GC-MS Somil. | Vol. 8270/825 | PCB's | 8080/808 | Pest. |
| 809/800 | Chloride | Gamma Spex. | Alpha Beta (A/B) | PLM (Asbestos) |
| Major Anions/Cations, pH, TDS | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 7/27/11 Time: 16:27
 RECEIVED BY: (Signature) [Signature] Date: 7/27/11 Time: 16:00

SAMPLED BY: (Print & Initial) IT/T Date: 7/27/11 Time: 16:00
 SAMPLE SHIPPED BY: (Circle) FEDEX BUS
 HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Trace ADDRESS: Trace CITY: Trace STATE: TX ZIP: Trace
 CONTACT: Trace PHONE: Trace DATE: Trace TIME: Trace

TETRA-TECH CONTACT PERSON: Ika Tovar Results by: [Signature]
 RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 7.2°C contact REMARKS: Run BTX on highest TP or Benzene records 10 min for run deeper samples

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

XWO conta - Midland 7/27/11

