Bratcher, Mike, EMNRD

| From: | Tavarez, Ike [Ike.Tavarez@tetratech.com] |
|----------|--|
| Sent: | Wednesday, January 19, 2011 3:13 PM |
| То: | Bratcher, Mike, EMNRD |
| Subject: | RE: COG - Mesilla State #3 TB Work Plan Approval Request |

Mike,

You are correct. I will make the changes and re-submit the work plan. Thanks

Ike Tavarez Tetra Tech

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Wednesday, January 19, 2011 11:35 AM
To: Tavarez, Ike
Subject: RE: COG - Mesilla State #3 TB Work Plan Approval Request

Ike,

Will you review the labeling on the diagrams? I think SB-3/AH-1 and SB-2/AH-6 may be mislabeled.

Mike

From: Tavarez, Ike [mailto:Ike.Tavarez@tetratech.com]
Sent: Friday, January 07, 2011 12:03 PM
To: Bratcher, Mike, EMNRD
Cc: Pat Ellis; Joshua Russo
Subject: COG - Mesilla State #3 TB Work Plan Approval Request

Mike,

Please review the attached work plan on the Mesilla State #3 TB. If you need a hard copy of the work plan let me know. Once approved, Tetra Tech will setup the remediation. Call me if you have any questions, thanks

Ike Tavarez, PG | Senior Project Manager

Mein: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

Ike.Tavarez@tetratech.com

Tetra Tech | Complex World, Clear Solutions™

1910 North Big Spring | Midland, TX 79705 | www.tetratech.com

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Bratcher, Mike, EMNRD

From: Sent: To: Subject: Bratcher, Mike, EMNRD Wednesday, January 19, 2011 10:35 AM 'Tavarez, Ike' RE: COG - Mesilla State #3 TB Work Plan Approval Request

lke,

Will you review the labeling on the diagrams? I think SB-3/AH-1 and SB-2/AH-6 may be mislabeled.

Mike

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To: Bratcher, Mike, EMNRD
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Ike Tavarez, PG | Senior Project Manager

Main: 432.682.4559 | Fax: 432.682.3916 | Cell: 432.425.3878

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Bratcher, Mike, EMNRD

From:Tavarez, Ike [Ike.Tavarez@tetratech.com]Sent:Friday, January 07, 2011 12:03 PMTo:Bratcher, Mike, EMNRDCc:Pat Ellis; Joshua RussoSubject:COG - Mesilla State #3 TB Work Plan Approval RequestAttachments:COG - Mesilla State #3 TB Work Plan .pdf

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Please review the attached work plan on the Mesilla State #3 TB. If you need a hard copy of the work plan let me know. Once approved, Tetra Tech will setup the remediation. Call me if you have any questions, thanks

Ike Tavarez, PG | Senior Project Manager

Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

lke.Tavarez@tetratech.com

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1910 North Big Spring | Midland, TX 79705 | www.tetratech.com

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SITE INFORMATION

Manle DL

| | | Rep | ort Type: Worl | <pre>c Plan</pre> |
|---------------------------------|---|------------------------------------|---|--|
| General Site In | | | | |
| Site: | | Mesilla Stat | e #3 Tank Battery | |
| Company: | ada, bada da | COG Opera | ting LLC | |
| Section, Towns | ship and Range | STREET. | T-175 | R-30E Sec. 16 Unit H |
| Lease Number. | | B-2103 | | A DEPARTMENT OF THE OWNER OF THE OWNER OF THE OWNER |
| County: | | Eddy Count | and a second | A CHARMEN AND A CHARMEN AND AND AND AND AND AND AND AND AND AN |
| GPS: | | - Santa and All | Automatic and a second s | 103.96921° W |
| Surface Owner | | State | | anna an de la La Calanza de Calanz Calanza de Calanza de C |
| Mineral Owner: | , | 1 | | |
| Directions: | | From the inter turn right 0.5 r | section of Hwy 529 and 6 niles, turn left 0.3 miles t | Goat Roper Road (Loco Hills, NM), travel North 0.7 miles o location. |
| Release Data: Date Released: | | 9/3/2010 | | |
| Type Release: | | BS&W | | |
| Source of Conta | mination: | | roke support brace | |
| Fluid Released: | | 60 bbls | | |
| Fluids Recovere | d: | 50 bbls | | |
| Official Commu | inication: | | | |
| Name: | Pat Ellis | | | Kim Dorey |
| Company: | COG Operating, L | | | Tetra Tech |
| Address: | 550 W. Texas Ave | | 72 | 1910 N. Big Spring |
| P.O. Box | The second second second second | | / | |
| City: | Midland Texas, 79 | 701 | <u> </u> | Midland, Texas |
| Phone number: | | | | |
| | (432) 686-3023 | | · | (432) 631-0348 |
| Fax: | (432) 684-7137 | | · · · · · | |
| Email: | pellis@conchores | ources.com | | kim.dorey@tetratech.com |
| Ranking Criteri | 8 | | | |
| Depth to Ground | water: | | Ranking Score | Site Data |
| :50 ft | | | 20 | |
| 50-99 ft 100 ft. | | | 10 | |
| - 100 IL. | | | 0 | |
| VellHead Protect | | | Ranking Score | Site Data |
| | 000 ft., Private <200 | | 20 | |
| Vater Source >1, | 000 ft., Private >200 | ft. 🤆 🔅 | 0 | 0 |
| Surface Body of | Water: | | Ranking Score | Site Data |
| | | | | |

| Surface Body of Water: | Ranking Score | Site Data |
|------------------------|---------------|-----------|
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | |
| | | |

Total Ranking Score: 0

| Accepta | ble Soil RRAL (r | ng/kg) |
|---------|------------------|--------|
| Benzene | Total BTEX | ТРН |
| 10 | 50 | 5,000 |



December 29, 2010

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

Re: Work Plan for the COG Operating LLC., Mesilla State #3, Unit H, Section 16, Township 17 South, Range 30 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 Mesilla State #3 located in Unit H, Section 16, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.83727°, W 103.96921°. 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 September 3, 2010, and released approximately sixty (60) barrels of basic sediment and water (BS&W). The spill was caused by high winds breaking loose a support brace on the PVC leg of the storage vessel. COG personnel replaced the broken PVC line with a steel line. Fifty (50) barrels of standing fluids were recovered. The spill initiated from the battery and breached the facility dike impacting the pad area measuring approximately 175' x 175'. The spill migrated off the south pad into the pasture, impacting an area approximately 20' by 20'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 16. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 300' below surface. The groundwater data is shown in Appendix B.



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 5,000 mg/kg.

Soil Assessment and Analytical Results

On September 22, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of seven (7) auger holes (AH-1 through AH-7) 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 B. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all the submitted samples were below RRAL for TPH and BTEX. Auger holes (AH-2, AH-4 and AH-5) had slight chloride concentrations at the surface (0-1') of 327 mg/kg, 206 mg/kg and 818 mg/kg, respectively. The chloride concentrations declined below reporting limit of <200 at 1-1.5' below surface. The remaining auger holes were not vertically defined, with bottom hole chloride concentrations of 3,910 mg/kg at 1-1.5' (AH-1), 9,580 mg/kg at 6-6.5' (AH-6), and 1,510 mg/kg at 5-5.5' (AH-7).

On December 1, 2010, Tetra Tech personnel supervised the installation of three soil borings (SB-1, SB-2 and SB-3) utilizing an air rotary drilling rig. Soil samples were collected to define the impact of the chloride concentrations in the vicinity of AH-1, AH-6 and AH-7. Referring to Table 1, elevated chloride concentrations significantly declined with depth at 7' (SB-1), 3' (SB-2) and 40' (SB-3). The soil boring locations are shown on Figure 3



Work Plan

COG proposes to removal of impacted material as highlighted (green) in Table 1 and Figure 4. Once the areas are excavated to the appropriate depths, the excavation will be backfilled with clean soil. Upon completion a final report will be submitted to the NMOCD.

The goal of the remediation is to establish surface growth and to reduce the environmental liabilities for the protection of the groundwater. Concerns exist regarding a deep excavation plan. Since the impacted area is in the native sand dunes, the proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the depths are not reached, a 40 mil liner will be installed at depth of 4' to 5' below surface to cap the impacted area.

If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

> Respectfully submitted, TETRA TECH

Kim Dorey Staff Geologist

cc: Pat Ellis - COG cc: Terry Gregston and Jim Amos - BLM

| Sample | Sample | Sample | Depth | Soi | Status | Т | PH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Chloride |
|--------|-----------|------------|-------|---------|---------|-------|----------|-------|---------|---------|--------------|---------|----------|
| ID | Date | Depth (ft) | (BEB) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-1 | 9/22/2010 | 0-1' | | X | | 41.3 | 71.6 | 112.9 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 3,680 |
| | 10 | 1-1.5' | | Х | | - | - | - | - | - | - | - | 3,910 |
| SB-2 | 12/1/2010 | 3' | | X | | | - | - | | - | - | - | <200 |
| | ti ti | 5' | | X | | _ | - | - | - | - | - | - | <200 |
| | 4 | 7' | | X | | - | - | - | - | - | - | - | 399 |
| | р · | 10' | | X | | - | - | - | - | - | - | - | <200 |
| | n | 15' | | X | | - | - | - | - | - | | - | <200 |
| | a | 20' | | X | | - | - | - | - | - | • | - | <200 |
| AH-2 | 9/2/2010 | 0-1' | | X | | <1.00 | <50.0 | <50.0 | - | - 1 | - | - | 327 |
| | U | 1-1.5' | | Х | | - | - | - | - | - | - | - | <200 |
| | 0 | 2-2.5' | | Х | | - | - | - | - | - | - | - | <200 |
| | | 3-3.5' | | X | | - | - | - | + | - | - | - | <200 |
| | " | 3.5-4' | | Х | | - | - | - | - | - | - | - | <200 |

| Sample | Sample | Sample | Depth | Soil | Status | T | PH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Chloride |
|--------|-----------|------------|-------|---------|---------|-------|----------|-------|---------|---------|--------------|---------|----------|
| D | Date | Depth (ft) | (BEB) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-3 | 9/22/2010 | 0-1' | | X | | <1.00 | <50.0 | <50.0 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 2,420 |
| | | 1-1.5' | | X | | - | - | - | • | - | ÷ | - | <200 |
| | " | 2-2.5' | | X | | - | - | - | | | - | - | <200 |
| | u | 3-3.5' | | X | | - | - | - | - | - | | - | <200 |
| | u u | 4-4.5' | | Х | | - | - | - | - | - | - | - | <200 |
| | # | 5-5.5' | | Х | | - | • | - | - | - | - | - | <200 |
| AH-4 | 9/22/2010 | 0-1' | [| X | | <1.00 | <50.0 | <50.0 | - | - | - | - | 206 |
| | ť | 1-1.5' | | X | | | - | - | - | - | - | - | <200 |
| | U | 2-2.5' | | X | | - | - | - | - | - | - | - | <200 |
| | 11 | 3-3.5' | | Х | | - | • | - | - | - | - | | <200 |
| AH-5 | 9/22/2010 | 0-1' | | X | | <1.00 | <50.0 | <50.0 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 818 |
| | () | 1-1.5' | | Х | | - | - | - | - | - | - | - | <200 |
| | 11 | 2-2.5' | | х | | - | - | - | • | - | - | - | <200 |
| | D. | 3-3.5' | | Х | | - | - | - | - | - | - | - | <200 |
| | 12 | 4-4.5' | | Х | | - | - | - | - | - | - | - | <200 |

| Sample | Sample | Sample | Depth | Soi | Status | T i | PH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Chloride |
|--------|-----------|------------|-------|---------|---------|------------|----------|--------|--------------|---------|--------------|---------|----------|
| ID | Date | Depth (ft) | (BEB) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-6 | 9/22/2010 | 0-1' | | Х | | 6.89 | 167 | 173.89 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 7,400 |
| | n | 1-1.5' | | X | | - | - | | • | - | | - | 1,790 |
| | U | 2-2.5' | | Х | | | | | • | - | - | - | 1,520 |
| | 8 | 3-3.5' | | Х | | | - | - | - | • | ÷ | - | <200 |
| | U | 4-4.5' | | Х | | - | - | - | • | - | - | - | 5,540 |
| | 8 | 5-5.5' | | Х | | - | - | • | - | - | - | - | 7,580 |
| | # | 6-6.5' | | Х | | - | - | - | - | - | - | - | 9,580 |
| SB-3 | 12/1/2010 | 0-1' | | X | _ | - | - | - | - . | - | • | - | <200 |
| | đ | 3' | | X | | | - | - | • | • | - | - | <200 |
| | u | 5' | | X | | - | - | - | - | - | - | - | 1,510 |
| | U U | 7' | | X | | - | - | - | - | - | - | - | 1,420 |
| | μ | 10' | | X | | | - | - | . | - | - | - | 3,010 |
| | ti | 15' | | X | | | | - | - | - | - | - | 4,420 |
| | n | 20' | | X | | - | - | - | - | - | - | - | 5,970 |
| | ti | 25' | | X | | - | - | - | - | - | - | - | 6,310 |
| | n | 30' | | X | | - | - | - | - | - | - | • | 3,800 |
| | ti | 40' | | X | | - | - | - | * | ~ | - | - | 312 |
| | a | 50' | | X | | - | - | - | | - | - | - | <200 |
| | U | 60' | | X | | - | - | - | - | - | - | - | <200 |

| Sample | Sample | Sample | Depth | Soi | Status | Ť | PH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Chloride |
|--------|-----------|------------|-------|---------|---------|-------|----------|-------|---------|---------|--------------|---------|----------|
| ID | Date | Depth (ft) | (BEB) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-7 | 9/22/2010 | 0-1' | | X | | <1.00 | <50.0 | <50.0 | - | - | - | - | 4,600 |
| | 0 | 1-1.5' | | Х | | - | - | - | - | - | - | - | 651 |
| | ti | 2-2.5' | | X | | - | - | - | | - | - | - | 570 |
| | 1) | 3-3.5' | | Х | | - | - | - | - | - | - | - | 1,730 |
| | 1) | 4-4.5' | | Х | | - | - | - | - | - | - | - | 1,360 |
| | 0 | 5-5.5 | | Х | | - | - | - | - | - | - | - | 1,510 |
| SB-1 | 12/1/2010 | 0-1' | | X | | - | - | - | - | - | - | - | 4,630 |
| | ø | 3' | | х | | - | - | - | - | - | - | | 5,340 |
| | u | 5' | | х | | - | - | • | - | - | | • | 347 |
| | a | 7' | | X | | - | - | - | - | - | - | - | <200 |
| | υ | 10' | | X | | - | - | - | - | - | - | - | <200 |
| | U | 15' | | X | | - | - | - | - | - | - | - | 233 |
| | a | 20' | | X | | - | - | - | - | - | - | - | <200 |

•

BEB Below Excavation Bottom

(--) [___]

Not Analyzed Proposed excavation depth

Water Well Data Average Depth to Groundwater (ft) COG -Mesilla State #3 Tank Battery Eddy County, New Mexico

30 East

16 South

| | 16 Sc | outh | : | 29 East | |
|-----------|----------------|------|----------|-----------|----|
| 6 | 5 | 4 | 3 | 5 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 110 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | 17 Sc | outh | | 29 East | |
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 80 | 23 | 24 |
| 30 | 29 210 208' | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 153 | 36 |
| | 18 Sc | outh | | 29 East | |
| 6 | 5 | 4 | 3 | 2 | 1 |

| | | | 1 | |
|-----|----|----|------|------------|
| 35 | 36 | 31 | 32 | 33 |
| Eas | t | | 17 : | South |
| 2 | 1 | 6 | 5 | 4 |
| 11 | 12 | 7 | 8 | 9 |
| 14 | 13 | 18 | 17 | 16 SITE |
| 23 | 24 | 19 | 20 | 21 |
| 26 | 25 | 30 | 29 | 28 |
| 35 | 36 | 31 | 32 | 33 |

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

15

22

27

34

14

23

26

35

13

24

25 36

| | 16 | South | ; | 1 | |
|-----------|----|-------|----|----|-----------|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 268 |
| 18 | 17 | 16 | 15 | 14 | 13 113 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 290 | 32 | 33 | 34 | 35 | 36 |

| | 17 | South | 3 | 31 East | <u>t – – – – – – – – – – – – – – – – – – –</u> |
|----|----|-------|-----------|---------|--|
| 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 | 34 271 | 35 | 36 |

| | | | | 100 | |
|----|----|-------|----|--------|----|
| | 18 | South | : | 29 Eas | t |
| 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 |

| | 18 | South | ; | 30 East | 1 |
|----|----|-------|----|---------|----|
| 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 |

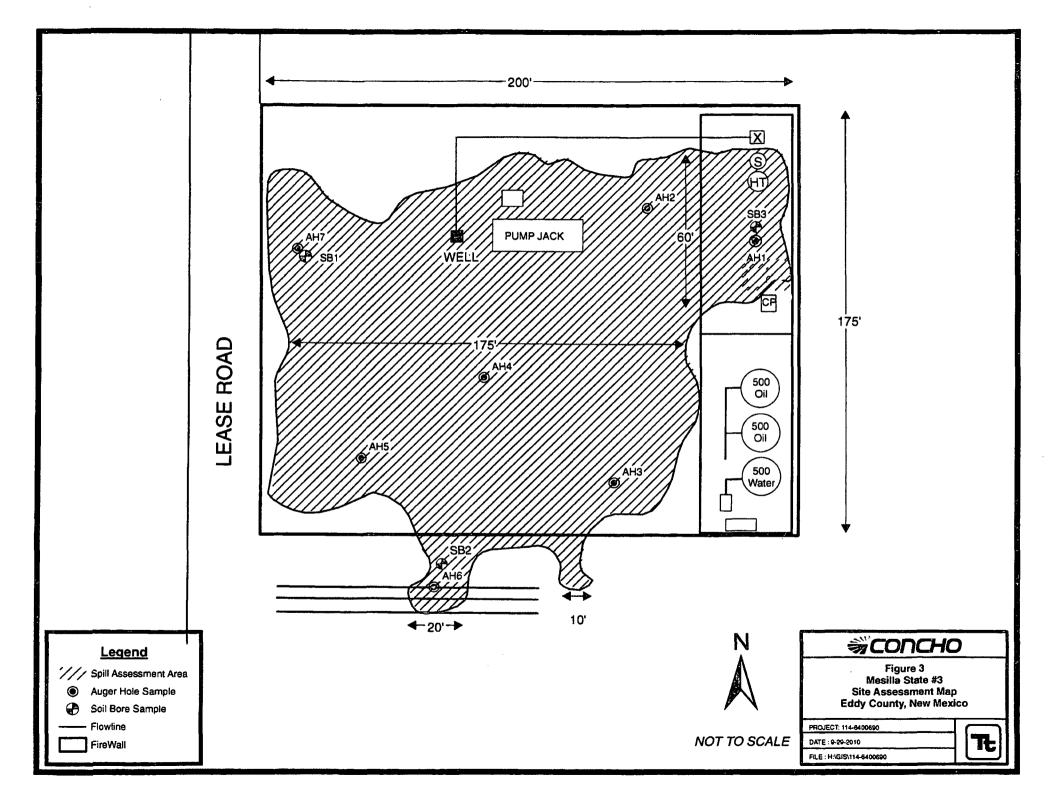
| | | | 2/1 | | |
|----|----|-------|-----|-----------|-----------|
| | 18 | South | | 31 East | |
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 400 |
| 18 | 17 | 16 | 15 | 14 317 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 261 | 36 |

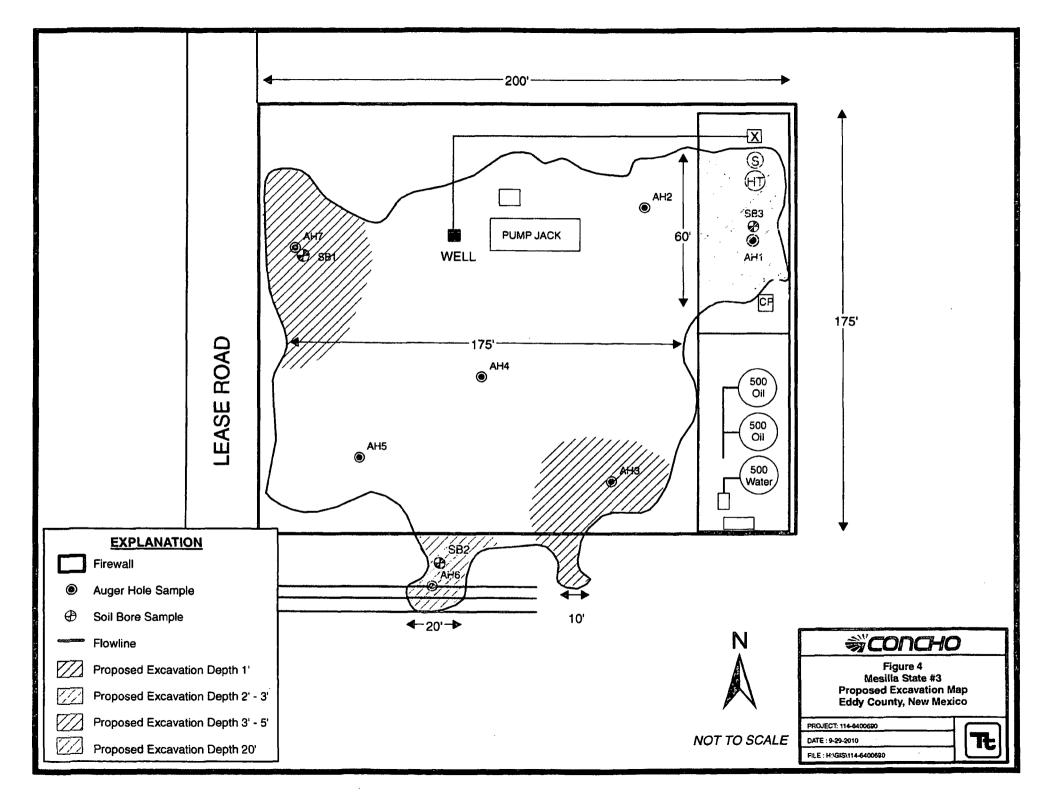
New Mexico State Engineers Well Reports

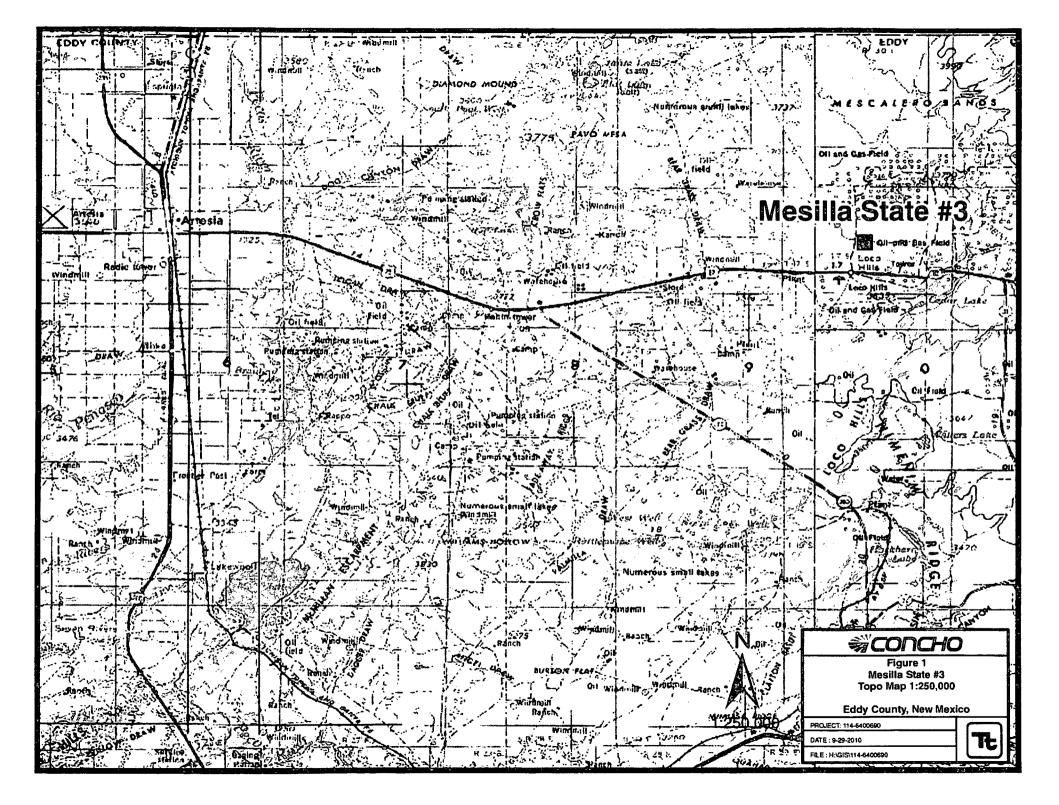
USGS Well Reports

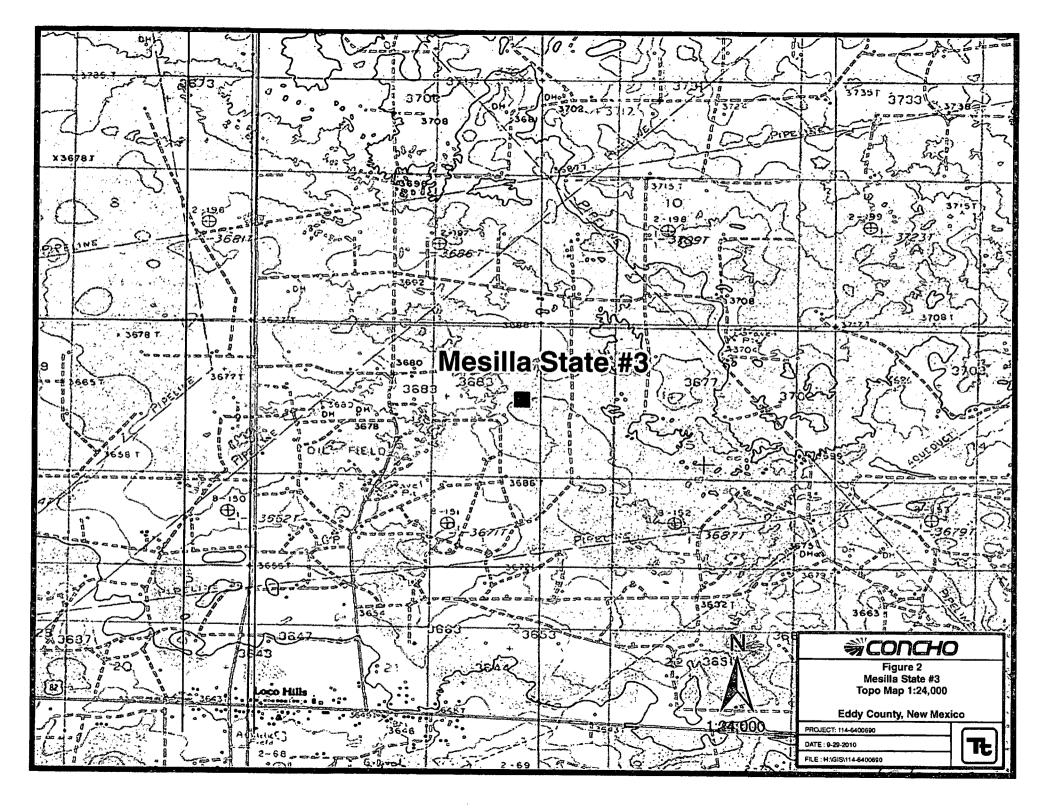
Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data









Name of Company

Surface Owner State

Section

16

Source of Release PVC water leg

Was Immediate Notice Given?

BS & W

Address

Unit Letter

Н

Type of Release

Facility Name

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

| District Office in accordance with Rule 116 on back side of form | | 1220 South St. Francis Dr. Santa Fe, NM 87505 | | | | | |
|--|-------------|--|--------------------------|-------------|---------------------------------------|--------------|--|
| | ction | orrective A | n and Co | catio | ease Notific | Rele | |
| Initial Report 🔲 Final Report | \boxtimes | FOR | OPERAT | | | | |
| | at Ellis | Pa | Contact | | G LLC | RATIN | |
| 17 | 230-0077 | No. 432- | Telephone N |)i | dland, TX 7970 | 100, Mi | |
| y | k Battery | e Tanl | Facility Typ | | k Battery | #3 Tanl | |
| Lease No. B-2103 | | | Mineral Owner | | | | |
| | | LEASE | N OF REI | ATIO | LOCA | | |
| /est Line County Eddy | East/Wes | Feet from the | /South Line | Nortl | Feet from the | Range 30E | |
| | | ide 103 58.155 | Longitu | 50.233 | Latitude 32 5 | | |
| | | EASE | OF REL | FURE | NAT | | |
| Volume Recovered 50bbls | V | Release 60bbls | Volume of | | | | |
| Date and Hour of Discovery 09/03/2010 8:30 a.m. | 1 | lour of Occurrenc | Date and F 09/03/2010 | | | | |
| | | Whom? | If YES, To | | · · · · · · · · · · · · · · · · · · · | | |

| | 🛛 Yes | 🗌 No | Not Required | Mike Bratcher—OCD |
|---------------------------------|-------------|-------|--------------|---|
| By Whom? Josh Russo | | | | Date and Hour 09/03/2010 8:30 a.m. |
| Was a Watercourse Reached? | 🗌 Yes | 🛛 No | | If YES, Volume Impacting the Watercourse. |
| If a Wmercourse was Impacted, I | Describe Fu | lly.* | | |

Sescribe Cause of Problem and Remedial Action Taken.*

COG OPER

550 W. Texas, Suite 10 Mesilla State #

Township

175

High wind speed moved the supports bracing the PVC water leg and broke it in half causing the release. The PVC water leg has been replaced with a new steel water leg.

Describe Area Affected and Cleamip Action Taken.*

Initially we released 60bbls of BS&W from the broken water leg and we were able to recover 50bbls with a vacuum truck. The spill area covered a portion of the well pad measuring approximately 200' x 200' from the battery towards the pumping unit. All standing fluid has been recovered. The well pad has been scraped and the contaminated pad material has been hauled to the appropriate disposal facility. (The closest well location to the release is the Mesilla State #3. this well is located on the same pad as the tank battery, (API#) 30-015-34538). Tetra Tech will sample the spill site are 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: | 275- | <u>OIL CO</u> | DNSERVATION | DIVISION |
|-----------------|----------------------------|---------------------------|-------------|----------|
| Printed Name: | Josh Russo | Approved by District Supe | rvisor: | |
| Tinle: | IISE Coordinator | Approval Date: | Texpiration | Date: |
| E-mail Address: | jrusso@conchoresources.com | Conditions of Approval: | | Attached |
| ate: 09/15/2010 | Phone: 432-212-2399 | | | |

Attach Additional Sheets If Necessary

Revised October 10, 2003

Submit 2 Copies to appropriate

Summary Report

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

Report Date: October 13, 2010

Work Order: 10092407

| Project Location: | Eddy County, NM |
|-------------------|-------------------------|
| Project Name: | COG/Mesilla State #3 TB |
| Project Number: | 114-6400690 |

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 245696 | AH-1 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245697 | AH-1 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245698 | AH-2 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245699 | AH-2 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245700 | AH-2 2-2.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245701 | AH-2 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245702 | AH-2 3.5-4' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245703 | AH-3 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245704 | AH-3 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245705 | AH-3 2-2.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245706 | AH-3 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245707 | AH-3 4-4.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245708 | AH-3 5-5.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245709 | AH-4 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245710 | AH-4 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245711 | AH-4 2-2.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245712 | AH-4 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245713 | AH-5 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245714 | AH-5 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245715 | AH-5 2-2.5 | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245716 | AH-5 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245717 | AH-5 4-4.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245718 | AH-6 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245719 | AH-6 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245720 | AH-6 2-2.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245721 | AH-6 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245722 | AH-6 4-4.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245723 | AH-6 5-5.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245724 | AH-6 6-6.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 |
| 245725 | AH-7 0-1' | soil | 2010-09-22 | 00:00 | 2010-09-23 |

| Report Date: October 13, 2010 | | Work Order: 10092407 | | Page Number: 2 of 6 | | |
|-------------------------------|-------------|----------------------|---------------|---------------------|------------------|--|
| Sample | Description | Matrix | Date Taken | Time Taken | Date Received | |
| 245726 | AH-7 1-1.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 | |
| 245727 | AH-7 2-2.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 | |
| 245728 | AH-7 3-3.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 | |
| 245729 | AH-7 4-4.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 | |
| 245730 | AH-7 5-5.5' | soil | 2010-09-22 | 00:00 | 2010-09-23 | |

| | BTEX | | | | TPH DRO - NEW | TPH GRO |
|---------------------|----------|----------|--------------|----------|---------------|---------|
| | Benzenc | Toluene | Ethylbenzene | Xylene | DRO | GRO |
| Sample - Field Code | (mg/Kg) | (mg/Kg) | (mg/Kg) | [mg/Kg) | (mg/Kg) | (mg/Kg) |
| 245696 - AH-1 0-1' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | 71.6 | 41.3 |
| 245698 - AH-2 0-1' | | | | | <50.0 | <1.00 |
| 245703 - AH-3 0-1' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | <50.0 | <1.00 |
| 245709 - AH-4 0-1' | | | | 1 | <50.0 | <1.00 |
| 245713 - AH-5 0-1' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | <50.0 | <1.00 |
| 245718 - AH-6 0-1' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | 167 | 6.89 |
| 245725 - AH-7 0-1' | | | | | <50.0 | <1.00 |

Sample: 245696 - AH-1 0-1'

| Param | Flag | Result | Units | \mathbf{RL} |
|----------|------|--------|-------|---------------|
| Chloride | | 3680 | mg/Kg | 4.00 |

Sample: 245697 - AH-1 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 3910 | mg/Kg | 4.00 |

Sample: 245698 - AH-2 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 327 | mg/Kg | 4.00 |

Sample: 245699 - AH-2 1-1.5'

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

Sample: 245700 - AH-2 2-2.5'

| Param | Flag | Result | Units | \mathbf{RL} |
|----------|------|--------|-------|---------------|
| Chloride | | <200 | mg/Kg | 4.00 |

| Report Date: October 13, 2010 | Work Order: 10092407 | Page | e Number: 3 of 6 |
|-------------------------------|----------------------|-------|------------------|
| Sample: 245701 - AH-2 3-3.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245702 - AH-2 3.5-4' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245703 - AH-3 0-1' | | | |
| Param Flag | Result | Units | RL |
| Chloride | 2420 | mg/Kg | 4.00 |
| | | | |
| Sample: 245704 - AH-3 1-1.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245705 - AH-3 2-2.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245706 - AH-3 3-3.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245707 - AH-3 4-4.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245708 - AH-3 5-5.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |

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| Report Date: October 13, 2010 | Work Order: 10092407 | Page | Number: 4 of 6 |
|-------------------------------|----------------------|----------------|----------------|
| Sample: 245709 - AH-4 0-1' | | | |
| Param Flag | Result | Units | RL |
| Chloride | 206 | mg/Kg | 4.00 |
| | | | |
| Sample: 245710 - AH-4 1-1.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| Sample: 245711 - AH-4 2-2.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| | | | |
| Sample: 245712 - AH-4 3-3.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| Sample: 245713 - AH-5 0-1' | | | |
| Param Flag | Result | Units | RL |
| Chloride | 818 | mg/Kg | 4.00 |
| | | | |
| Sample: 245714 - AH-5 1-1.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |
| Sample: 245715 - AH-5 2-2.5' | | | |
| - | Duralle | T I : • - | лд |
| Param Flag Chloride | Result <200 | Units mg/Kg | RL 4.00 |
| | | 0 | |
| Sample: 245716 - AH-5 3-3.5' | | | |
| Param Flag | Result | Units | RL |
| Chloride | <200 | mg/Kg | 4.00 |

| Report Date: October 13, 2010 | | Work Order: 10092407 | Page | Number: 5 of 6 |
|-------------------------------|---------------------------------------|----------------------|-------|----------------|
| Sample: 245717 - | AH-5 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 245718 - | AH-6 0-1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 7400 | mg/Kg | 4.00 |
| Sample: 245719 - | AH-6 1-1.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1790 | mg/Kg | 4.00 |
| Sample: 245720 - | AH-6 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1520 | mg/Kg | 4.00 |
| Sample: 245721 - | AH-6 3-3.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | · · · · · · · · · · · · · · · · · · · | <200 | mg/Kg | 4.00 |
| Sample: 245722 - | AH-6 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 5540 | mg/Kg | 4.00 |
| Sample: 245723 - | AH-6 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 7580 | mg/Kg | 4.00 |
| Sample: 245724 - | AH-6 6-6.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | · · · · · · · · · · · · · · · · · · · | 9580 | mg/Kg | 4.00 |

| Report Date: October 13, 2010 | | Work Order: 10092407 | - | Page Number: 6 of 6 |
|-------------------------------|---------------|----------------------|-------|---------------------|
| Sample: 245725 | - AH-7 0-1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 4600 | mg/Kg | 4.00 |
| Sample: 245726 | - AH-7 1-1.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 651 | mg/Kg | 4.00 |
| Sample: 245727 | - AH-7 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 570 | mg/Kg | 4.00 |
| Sample: 245728 | - AH-7 3-3.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1730 | mg/Kg | 4.00 |
| Sample: 245729 | - AH-7 4-4.5' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | 1360 | mg/Kg | 4.00 |
| Sample: 245730 | - AH-7 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1510 | mg/Kg | 4.00 |

Summary Report

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

Report Date: December 10, 2010

Work Order: 10120608

| Project Location: | Eddy County, NM |
|-------------------|-------------------------|
| Project Name: | COG/Mesilla State #3 TB |
| Project Number: | 114-6400690 |

| | | | Date | Time | Date |
|--------|-------------|--------|------------|---------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 252360 | SB-1 0-1' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252361 | SB-1 3' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252362 | SB-1 5' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252363 | SB-1 7' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252364 | SB-1 10' | soil | 2010-12-01 | . 00:00 | 2010-12-03 |
| 252365 | SB-1 15' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252366 | SB-1 20' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252367 | SB-2 3' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252368 | SB-2 5' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252369 | SB-2 7' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252370 | SB-2 10' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252371 | SB-2 15' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252372 | SB-2 20' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252373 | SB-3 0-1' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252374 | SB-3 3' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252375 | SB-3 5' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252376 | SB-3 7' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252377 | SB-3 10' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252378 | SB-3 15' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252379 | SB-3 20' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252380 | SB-3 25' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252381 | SB-3 30' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252382 | SB-3 40' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252383 | SB-3 50' | soil | 2010-12-01 | 00:00 | 2010-12-03 |
| 252384 | SB-3 60' | soil | 2010-12-01 | 00:00 | 2010-12-03 |

Sample: 252360 - SB-1 0-1'

| Report Date: December 10, 2010 | | 010 Work Order: 10120608 | | age Number: 2 of 5 |
|--------------------------------|------------|--------------------------|-------|--------------------|
| Param | Flag | Result | Units | RL |
| Chloride | | 4630 | mg/Kg | 4.00 |
| Sample: 252361 | - SB-1 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 5340 | mg/Kg | 4.00 |
| Sample: 252362 | - SB-1 5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 347 | mg/Kg | 4.00 |
| Sample: 252363 | - SB-1 7' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252364 | - SB-1 10' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252365 | - SB-1 15' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 233 | mg/Kg | 4.00 |
| Sample: 252366 | - SB-1 20' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252367 | - SB-2 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |

| Report Date: December 10, | 2010 | Work Order: 10120608 | | Page Number: 3 of 5 |
|---------------------------|------|----------------------|---------|---------------------|
| Sample: 252368 - SB-2 : | 5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252369 - SB-2 ' | 7' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 399 | mg/Kg | 4.00 |
| Sample: 252370 - SB-2 | 10' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | - mg/Kg | 4.00 |
| Sample: 252371 - SB-2 | 15' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252372 - SB-2 | 20' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252373 - SB-3 (| 0-1' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252374 - SB-3 : | 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4.00 |
| Sample: 252375 - SB-3 | 5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1510 | mg/Kg | 4.00 |

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| Report Date: December 10, 2010 | Work Order: 10120608 | Page Number: 4 of 5 | | | | | |
|--------------------------------|----------------------|---------------------|---------------|--|--|--|--|
| Sample: 252376 - SB-3 7' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 1420 | mg/Kg | 4.00 | | | | |
| Sample: 252377 - SB-3 10' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 3010 | mg/Kg | 4.00 | | | | |
| Sample: 252378 - SB-3 15' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 4420 | mg/Kg | 4.00 | | | | |
| Sample: 252379 - SB-3 20' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 5970 | mg/Kg | 4.00 | | | | |
| Sample: 252380 - SB-3 25' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 6310 | mg/Kg | 4.00 | | | | |
| Sample: 252381 - SB-3 30' | | | | | | | |
| Param Flag | Result | Units | \mathbf{RL} | | | | |
| Chloride | 3800 | mg/Kg | 4.00 | | | | |
| Sample: 252382 - SB-3 40' | · · · · | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | 312 | mg/Kg | 4.00 | | | | |
| Sample: 252383 - SB-3 50' | | | | | | | |
| Param Flag | Result | Units | RL | | | | |
| Chloride | <200 | mg/Kg | 4.00 | | | | |

Sample: 252384 - SB-3 60'

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