SITE INFORMATION

Report Type: Closure Report

General Site Information:		
Site:	Electra Federal #5 - Water Line	
Company:	COG Operating LLC	
Section, Township and Range	Unit A - Section 21 - Township 17S - Range 30E	
Lease Number:	30-015-34211	
County:	Eddy County	
GPS:	32.82343	103.96848
Surface Owner:	Federal	
Mineral Owner:		
Directions:	From the intersection of Hwy 82 and CR-219 in Loco Hills, travel north on CR-219 for 0.4 mi, turn right (east) go 0.5 miles to Well pad (Apache El Federal #10, spill area is located approx. 300' SE of well pad.	

Release Data:	
Date Released:	11/3/2010
Type Release:	Produced Water
Source of Contamination:	4" Water line
Fluid Released:	30 bbls
Fluids Recovered:	25 bbls

Official Communication:			
Name:	Robert McNeill		Ike Tavarez
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center		1910 N. Big Spring
P.O. Box	600 W. Illnois Ave.		
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		432-682-4559
Fax:	(432) 684-7137		
Email:	rmcneill@concho.com		ike.tavarez@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	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:	**0**	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	50	5,000

TETRA TECH

October 28, 2013

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., Electra Federal #5 Flow line, Unit A, Section 21, 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 release from a 4-inch poly line associated with the Electra Federal #5, Unit A, Section 21, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.82343°, W 103.96848°. The site location is shown on Figures 1 and 2.

Background

On November 3, 2010, Ferguson Construction was installing an underground line for Holly Energy. Prior to trenching, Ferguson moved a COG 4-inch poly line and which parted while being moved. As results, the leak released approximately 30 barrels of produced water. COG immediately responded and recovered 25 barrels of fluid with a vacuum truck. According to the C-141, the spill affected an area measuring 70' x 85' directly on and adjacent to the poly line right-of-way. Ferguson has since installed the Holly Energy line and backfilled the site. The final C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 21. According to the NMOCD groundwater map, the average depth to groundwater in the area is approximately 300' below surface. The average depth to groundwater map is shown in Appendix B.

Tetra Tech
4000 North Big Spring, Suite 401, Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.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 5,000 mg/kg.

Soil Assessment and Analytical Results

On December 7, 2010, Tetra Tech personnel inspected and sampled the spill area. Six auger holes (AH-1 through AH-6) 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 sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all submitted samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected in the majority of the auger holes. Auger hole (AH-1) did not show chloride impact to the soils. The areas of AH-5 and AH-6 showed a shallow impact to the soils, which were vertically defined at 1.0' and 4.0', respectively. The remaining auger holes (AH-2, AH-3 and AH-4) showed chloride impact which was not vertically defined.

In order to define the chloride impact, boreholes were proposed in the areas of AH-2, AH-3 and AH-4. The area of AH-2 was not drilled due to an overhead power line. Based on the proximity of AH-3, the data from AH-3 will be utilized for the area of AH-2. On December 7, 2011, Tetra Tech personnel supervised the installation of two (2) boreholes (BH-1 and BH-2) utilizing an air rotary rig. The results of the sampling are summarized in Table 1. The borehole locations are shown on Figure 3.

Referring to Table 1, a deeper chloride impact was encountered in the areas of BH-1 and BH-2. In the area of borehole (BH-1), the chloride concentration spiked at 15.0' with a concentrations of 13,500 mg/kg, which declined with depth to 226 mg/kg at 60.0' below surface. In addition, borehole (BH-2) spiked at 7.0' with a concentration of 13,300 mg/kg and declined with depth to <200 mg/kg at 70.0' below surface.

TETRA TECH

Site Remediation and Conclusion

On September 6 through September 16, 2013, Tetra Tech personnel supervised the excavation of the impacted soils. The excavated depths are highlighted in Table 1 and shown on Figure 4. The remediation was performed according to the approved work plan. To remove the elevated chloride impact, the areas of AH-2 and AH-3 (BH-2) and AH-4 (BH-1) were excavated to depths of approximately 7.0' and 4.0' below surface, respectively. The area of AH-5 was excavated to 1.0' below surface and the 4.5' in the area of AH-6.

Once excavated to the appropriate depths, Tetra Tech collected confirmation samples from the excavation bottoms and sidewalls. The sampling dates were incorrectly recorded on the original chain of custody and the laboratory reports were revised to the correct sampling date. The confirmation sample results are included in Table 1. The revised laboratory analytical reports are presented in Appendix C.

Once approved by the BLM, the excavated areas of AH-2, AH-3 (BH-2) and AH-4 (BH-1) were capped with a 40 mil liner at approximately 4.0' below surface and backfilled with clean soil to grade. Approximately 1,252 cubic yards of soil were removed and transported to the R360 facility for proper disposal.

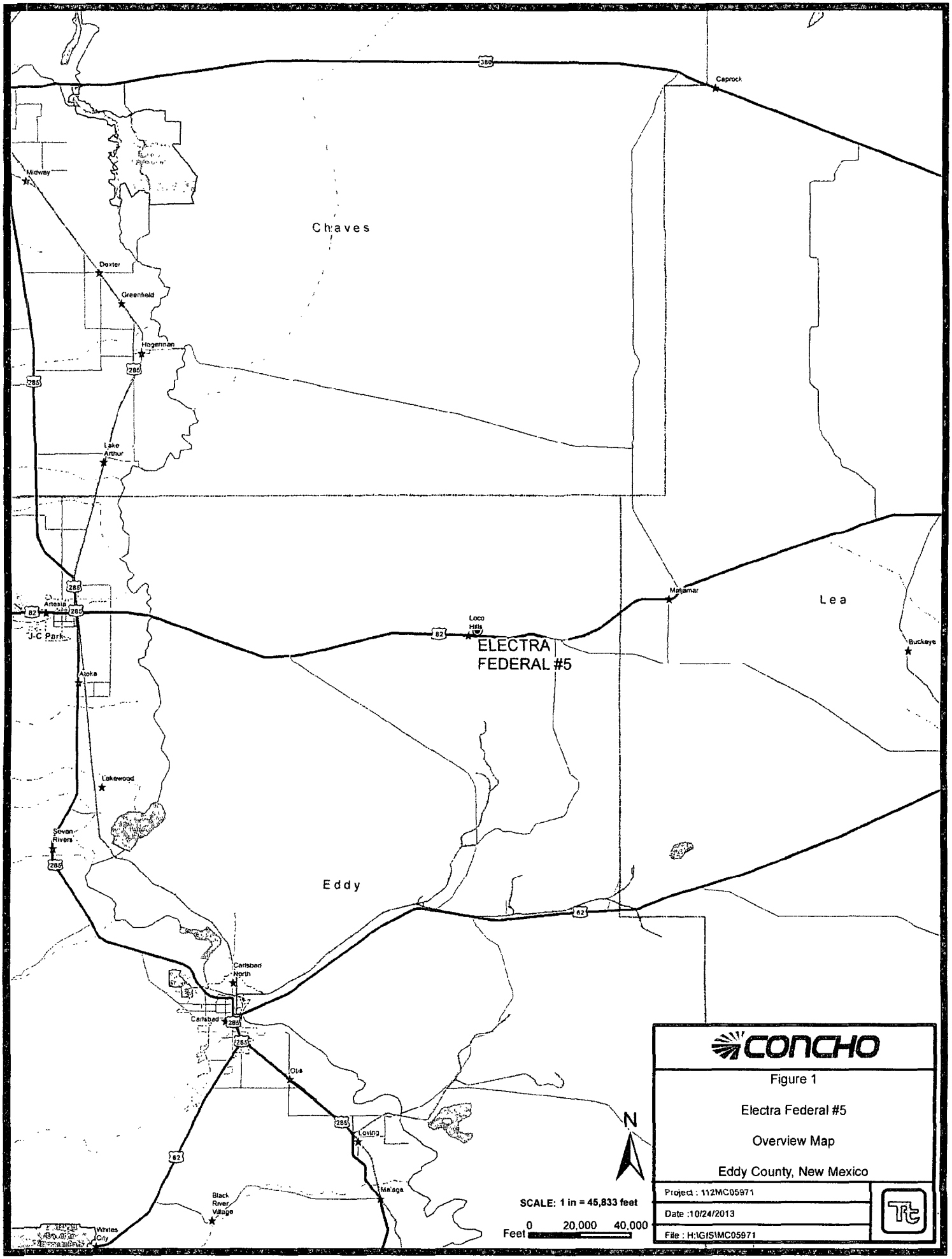
Based on the remediation activities performed at this location, COG requests closure for this site. The C-141(Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

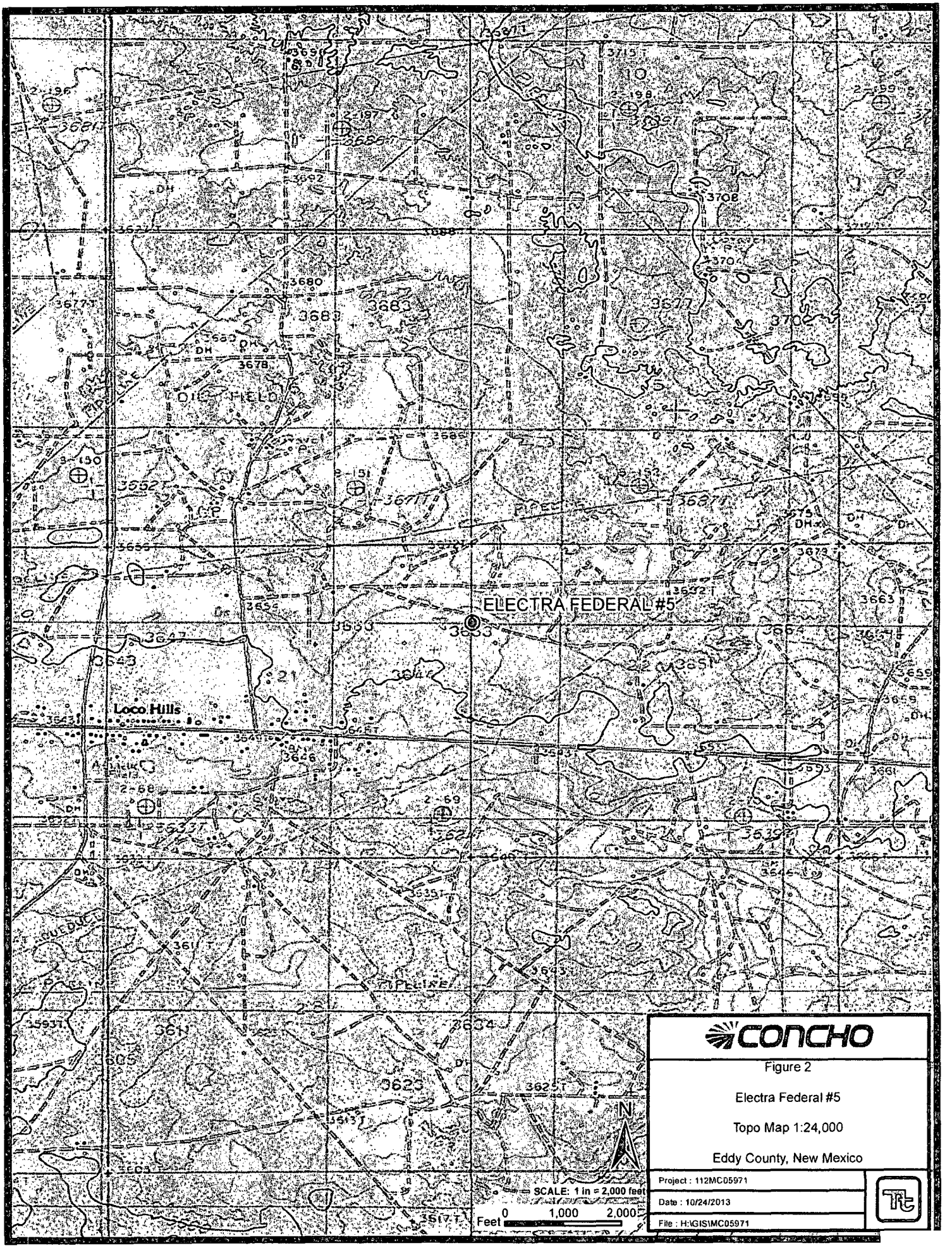
Ike Tavarez, PG
Project Manager

cc: Robert McNeill – COG
cc: Mike Burton - BLM

Figures



Drawn By: Isabel Marmolejo



CONCHO

Figure 2

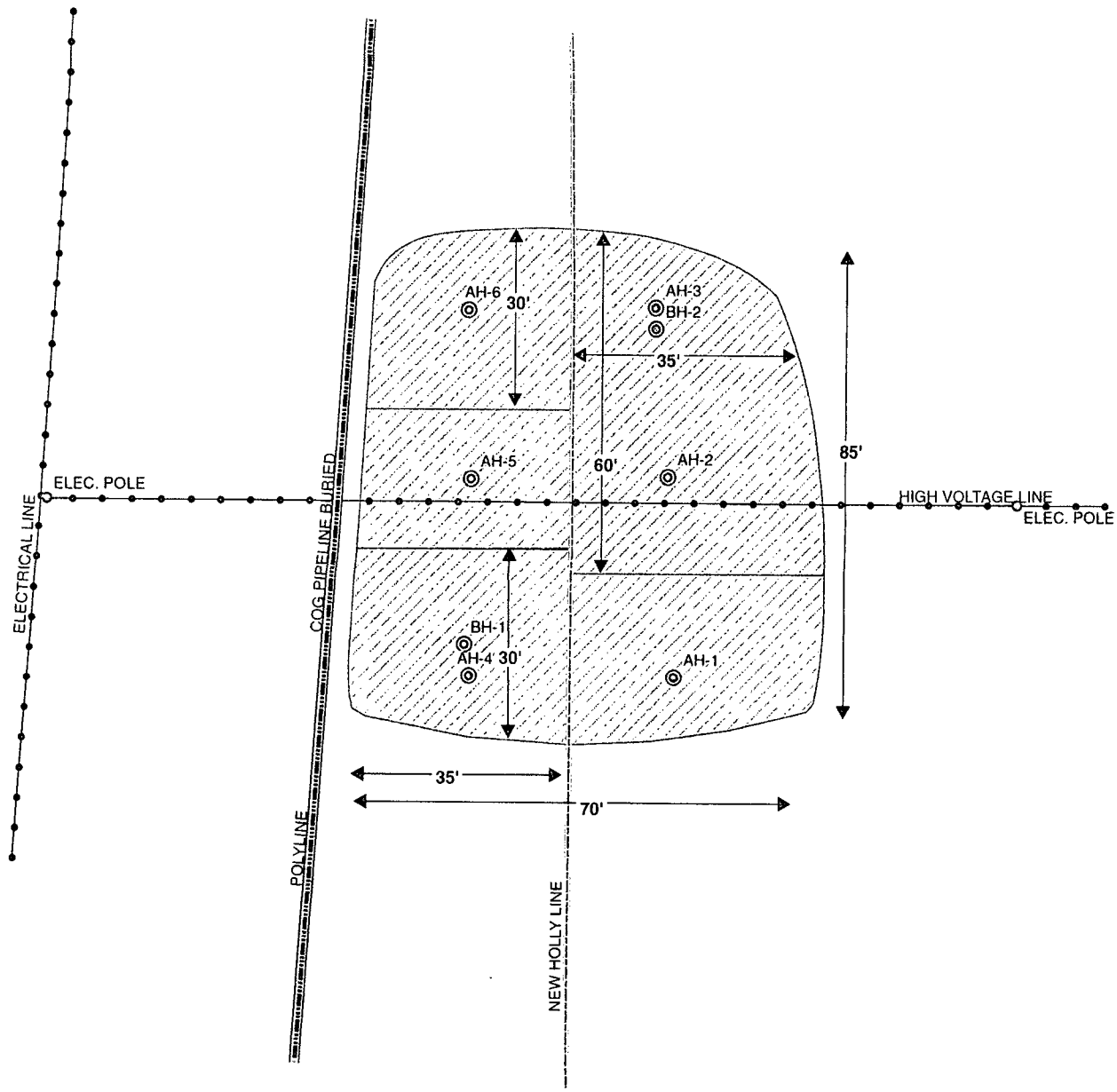
Electra Federal #5

Topo Map 1:24,000

Eddy County, New Mexico

Project : 112MC05971	
Date : 10/24/2013	
File : H:\GIS\MC05971	

Drawn By: Isabel Marmolejo



EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BORE HOLE SAMPLE LOCATIONS
- ELEC. POLE
- COG PIPELINE BURIED
- ELECTRICAL LINE
- HIGH VOLTAGE LINE
- NEW HOLLY LINE
- POLYLINE
- SPILL AREA

N

SCALE: 1 IN = 30 FEET

Feet 0 20 40

CONCHO

Figure 3

Electra Federal #5

Spill Assessment Map

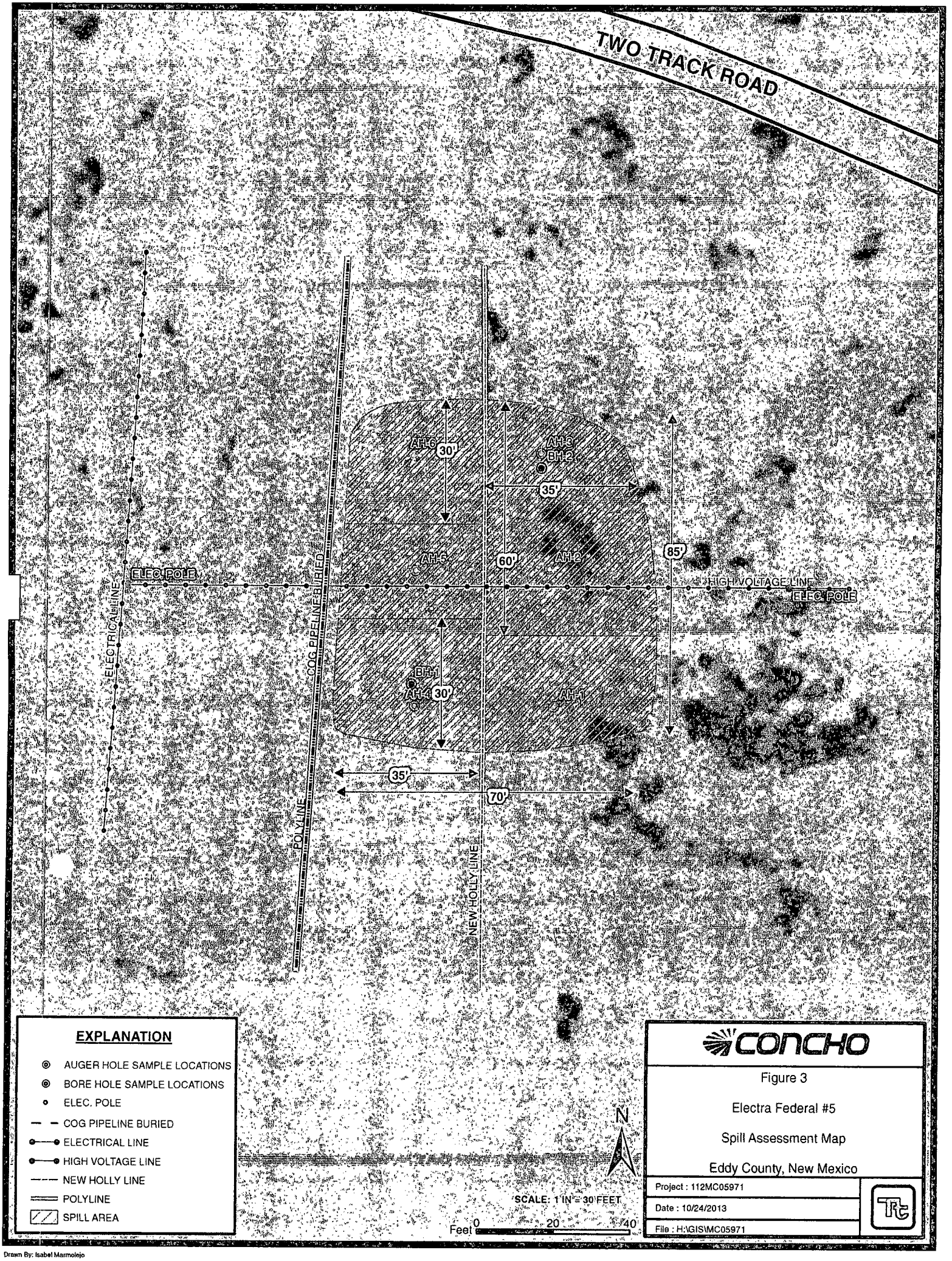
Eddy County, New Mexico

Project : 112MC05971

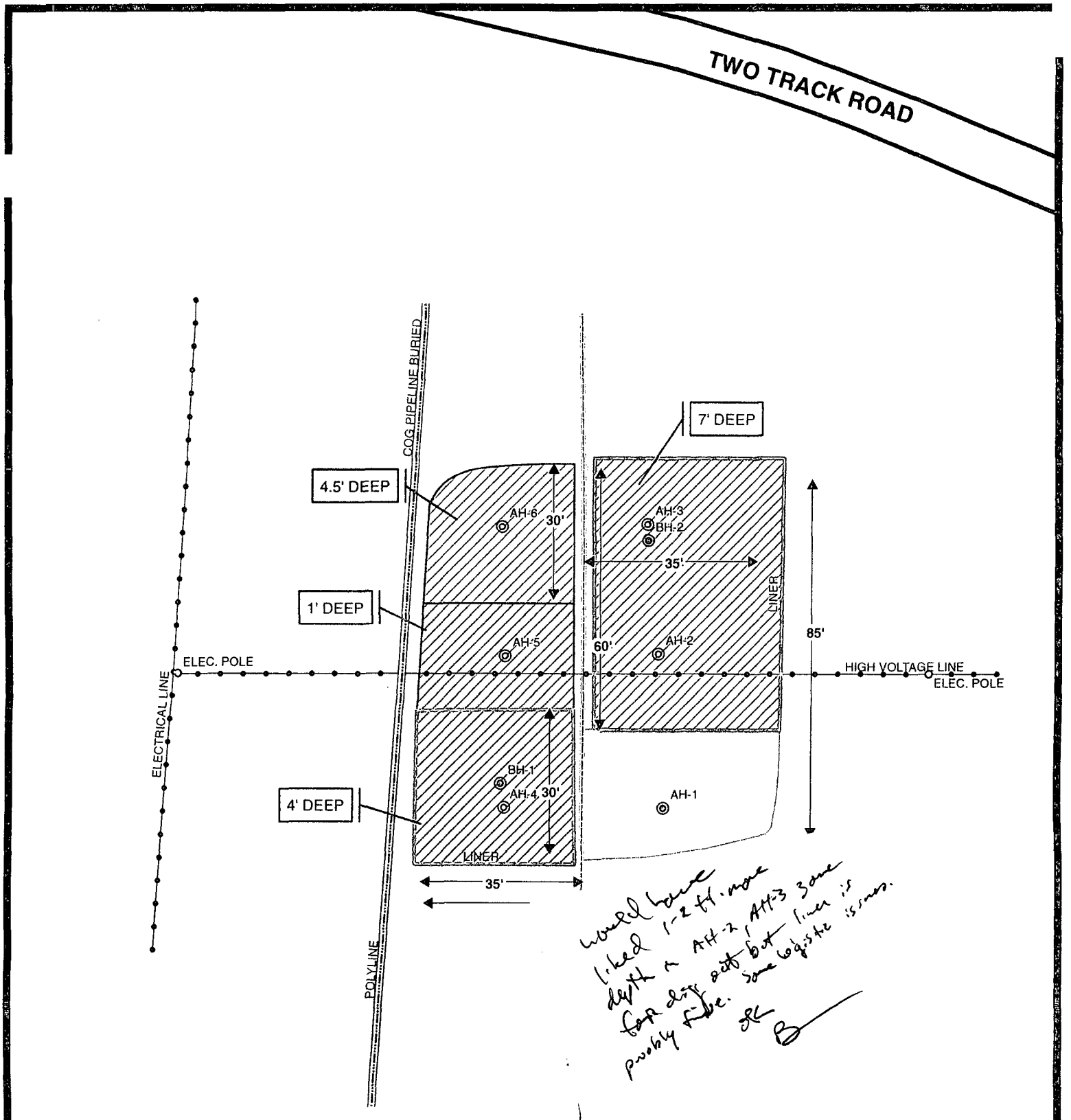
Date : 10/24/2013

File : H:\GIS\MC05971

Drawn By: Isabel Marmolejo



Drawn By: Isabel Marmolejo



EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BORE HOLE SAMPLE LOCATIONS
- ELEC. POLE
- INSTALLED LINER
- COG PIPELINE BURIED
- ELECTRICAL LINE
- HIGH VOLTAGE LINE
- NEW HOLLY LINE
- POLYLINE
- EXCAVATION DEPTHS

SCALE: 1 IN = 30 FEET

Feet 0 10 20

Electra Federal #5

Excavation Depths

Eddy County, New Mexico

Project : 112MC05971

Date : 10/24/2013

File : H:\GIS\MC05971

Drawn By: Isabel Marmolejo

Tables

Table 1
COG Operating LLC.
Electra Federal #5
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-1	12/7/2010	0-1'		X		<2.00	662	662	<0.0200	<0.0200	<0.0200	<0.0200	<200
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	630
AH-2	12/7/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
	"	1-1.5'			X	-	-	-	-	-	-	-	434
	"	2-2.5'			X	-	-	-	-	-	-	-	1,480
	"	3-3.5'			X	-	-	-	-	-	-	-	1,350
Liner	"	4-4.5'			X	-	-	-	-	-	-	-	2,360
	"	5-5.5'			X	-	-	-	-	-	-	-	8,130
	9/11/2013	South SW		X									104
	9/12/2013	East SW		X									471
	9/11/2013	West SW		X									1,200
	9/11/2013	Bottom Hole	7	X									2,990

Table 1
COG Operating LLC.
Electra Federal #5
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-3	12/7/2010	0-1'			X	3.94	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	389
	"	1-1.5'			X	-	-	-	-	-	-	-	489
	"	2-2.5'			X	-	-	-	-	-	-	-	2,350
	"	3-3.5'			X	-	-	-	-	-	-	-	14,900
Liner	"	4-4.5'			X	-	-	-	-	-	-	-	14,800
	9/12/2013	North SW	-	X		-	-	-	-	-	-	-	570
	9/12/2013	West SW	-	X		-	-	-	-	-	-	-	190
	9/12/2013	East SW	-	X		-	-	-	-	-	-	-	441
	9/12/2013	Bottom hole	7	X		-	-	-	-	-	-	-	5,970
BH-2	11/4/2011	0-1'			X	-	-	-	-	-	-	-	<200
	"	3'			X	-	-	-	-	-	-	-	<200
	"	5'			X	-	-	-	-	-	-	-	12,400
	"	7'			X	-	-	-	-	-	-	-	13,300
	"	10'	-	X		-	-	-	-	-	-	-	6,380
	"	15'	-	X		-	-	-	-	-	-	-	8,670
	"	20'	-	X		-	-	-	-	-	-	-	5,850
	"	25'	-	X		-	-	-	-	-	-	-	3,490
	"	30'	-	X		-	-	-	-	-	-	-	535
	"	40'	-	X		-	-	-	-	-	-	-	5,040
	"	50'	-	X		-	-	-	-	-	-	-	1,350
	"	60'	-	X		-	-	-	-	-	-	-	1,130
	"	70'	-	X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
Electra Federal #5
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	12/7/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	744
	"	1-1.5'			X	-							1,070
	"	2-2.5'			X	-							2,810
	"	3-3.5'			X	-							5,370
Liner	"	4-4.5'			X	-							5,040
	"	5-5.5'		X		-	-	-	-	-	-	-	5,190
	9/12/2013	South SW	-	X		-	-	-	-	-	-	-	266
	9/12/2013	East SW	-	X		-	-	-	-	-	-	-	591
	9/12/2013	West SW	-	X		-	-	-	-	-	-	-	205
	9/10/2013	Bottom hole	4	X		-	-	-	-	-	-	-	656
BH-1	11/4/2011	0-1'			X	-							791
	"	3'			X	-							461
	"	5'	-	X		-	-	-	-	-	-	-	2,470
	"	7'	-	X		-	-	-	-	-	-	-	3,980
	"	10'	-	X		-	-	-	-	-	-	-	9,370
	"	15'	-	X		-	-	-	-	-	-	-	13,500
	"	20'	-	X		-	-	-	-	-	-	-	4,340
	"	25'	-	X		-	-	-	-	-	-	-	6,340
	"	30'	-	X		-	-	-	-	-	-	-	8,880
	"	40'	-	X		-	-	-	-	-	-	-	507
	"	50'	-	X		-	-	-	-	-	-	-	1,100
	"	60'	-	X		-	-	-	-	-	-	-	226

Table 1
COG Operating LLC.
Electra Federal #5
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-5	12/7/2010	0-1			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	1,710
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	380
	"	5-5.5'		X		-	-	-	-	-	-	-	290
	9/10/2013	East SW	-		X	-	-	-	-	-	-	-	135
	9/11/2013	West SW	-		X	-	-	-	-	-	-	-	406
	9/10/2013	Bottom hole	1		X	-	-	-	-	-	-	-	75.2
AH-6	12/7/2010	0-1			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	5,870
		1-1.5'			X	-	-	-	-	-	-	-	7,710
		2-2.5'			X	-	-	-	-	-	-	-	4,840
		3-3.5'			X	-	-	-	-	-	-	-	3,440
		4-4.5'			X	-	-	-	-	-	-	-	874
		5-5.5'		X		-	-	-	-	-	-	-	245
	9/10/2013	North SW	-	X		-	-	-	-	-	-	-	30.1
	9/10/2013	West SW	-	X		-	-	-	-	-	-	-	146
	9/10/2013	East SW	-	X		-	-	-	-	-	-	-	186
	9/13/2013	Bottom hole	4.5	X		-	-	-	-	-	-	-	170

BEB Below Excavation Bottom

(--) Not Analyzed

Excavation Depth

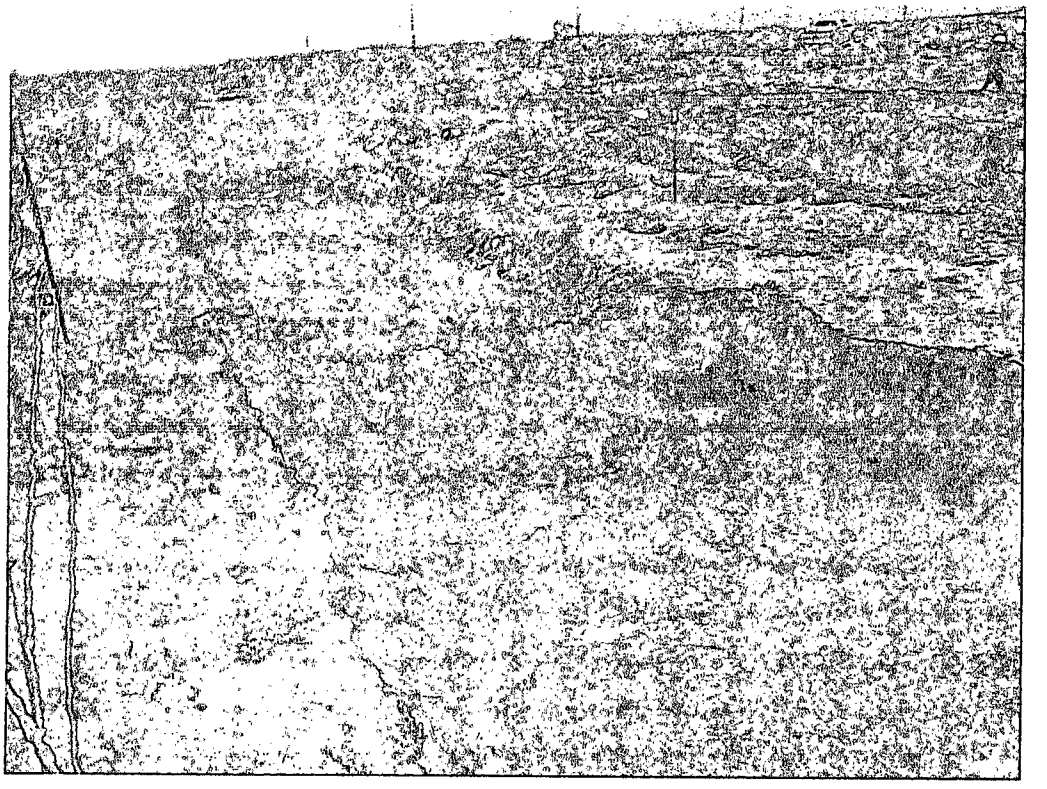
40 Mil Liner Installation

Photos

COG Operating LLC
Electra Federal #5
Eddy County, New Mexico

TETRA TECH

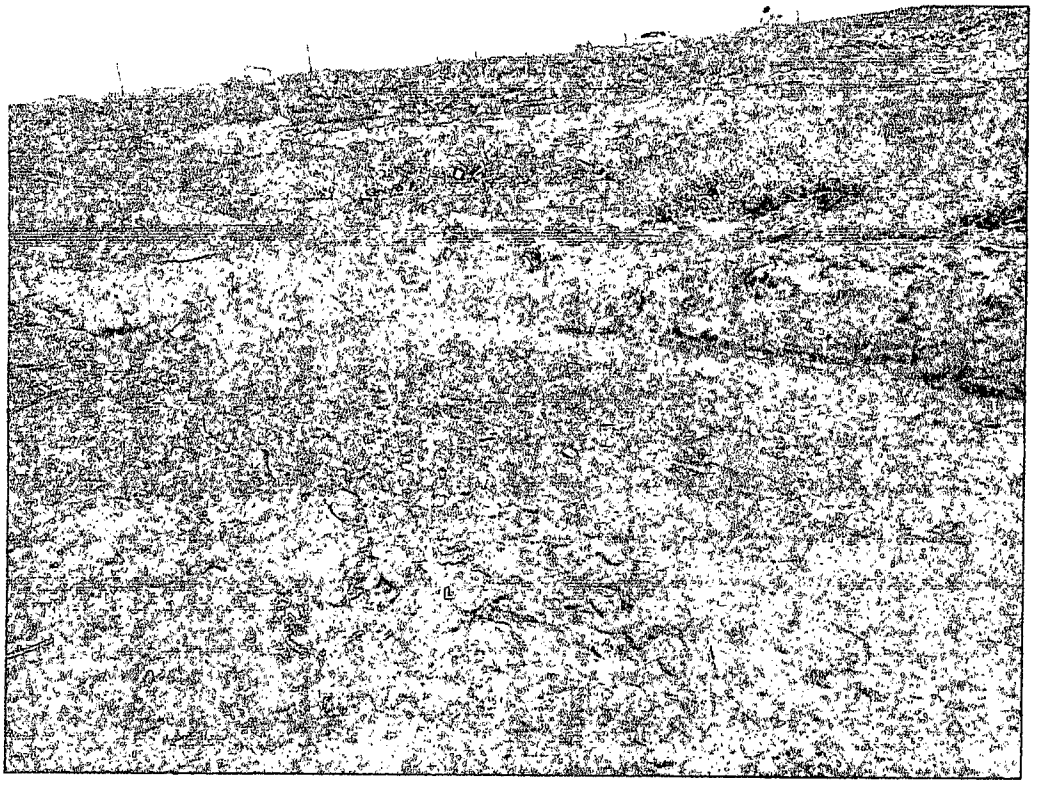
View North – Excavation Area of AH-4, AH-5 and AH-6



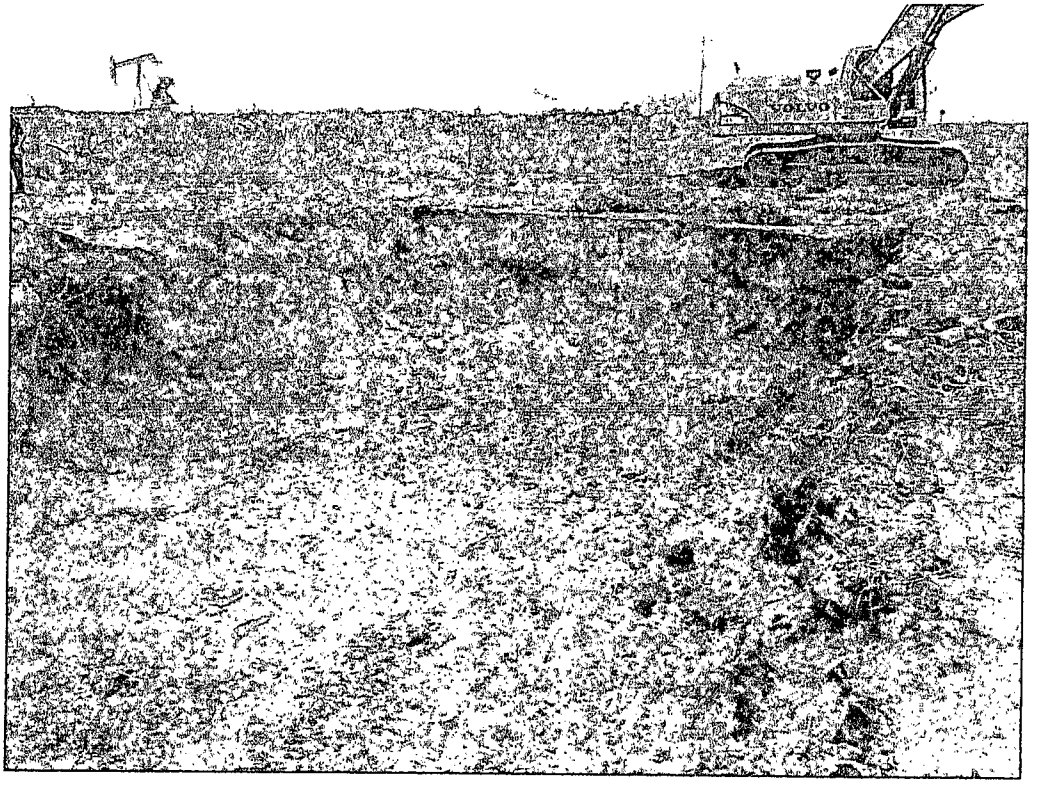
View Northeast – Excavation Area of AH-4, AH-5 and AH-6

COG Operating LLC
Electra Federal #5
Eddy County, New Mexico

TETRA TECH



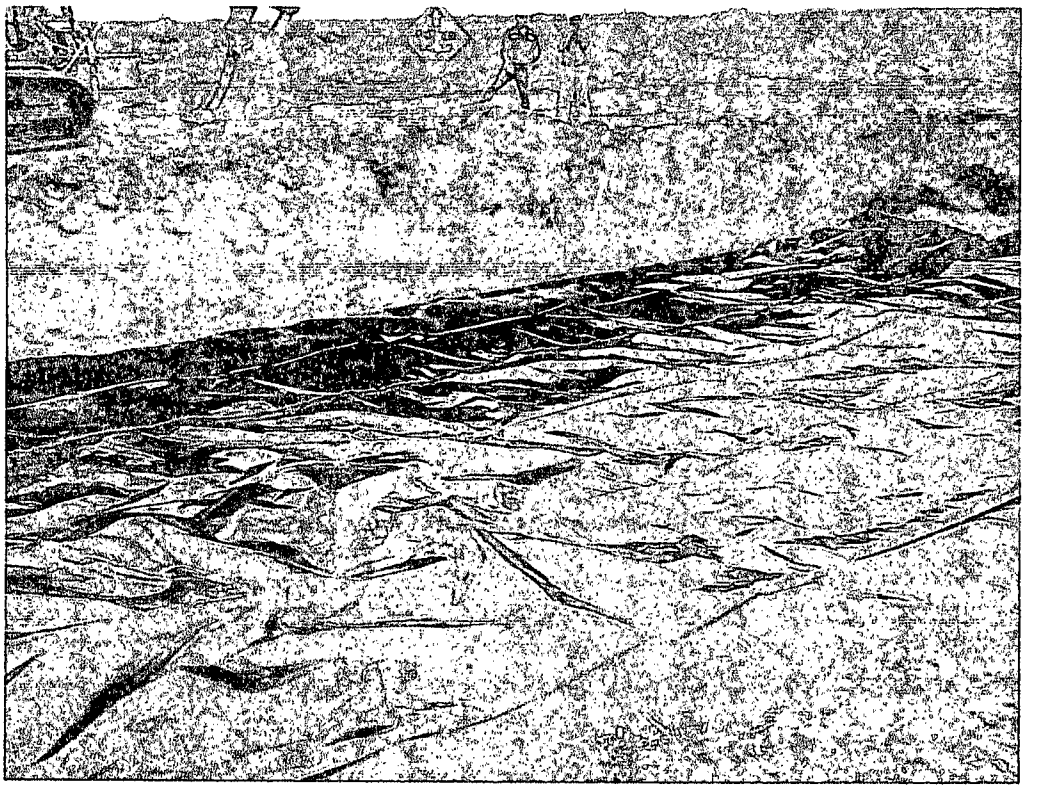
View Northeast – Excavation Area of AH-6



View Northwest – Excavation Area of AH-2 and AH-3

COG Operating LLC
Electra Federal #5
Eddy County, New Mexico

TETRA TECH



View Southeast –Excavation Area of AH-2 and AH-3 with the Liner

View East – Excavation Area of AH-4 with the Liner

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	**600 West Illinois Avenue, Midland, Texas 79701**	Telephone No.	**(432) 230-0077**
Facility Name	**Electra Federal #5**	Facility Type	**4" Water Line**

Surface Owner: Federal	Mineral Owner	Lease No. NMNM-074935 (API#) 30-015-34211

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	21	17S	30E					Eddy

Latitude 32.49413 **Longitude** 103.58116

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 30 bbls	Volume Recovered 25 bbls
Source of Release: 4" Electra Federal #5 Water Line	Date and Hour of Occurrence 11/03/2010	Date and Hour of Discovery 11/03/2010 1:40 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher - OCD	
By Whom? Josh Russo	Date and Hour 11/04/2010 6:25 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
NOV 07 2013
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

As Ferguson was moving the COG 4" poly line so they could trench for the installation of a buried line, they broke the COG 4" poly line. The 4" poly line has been refused and put back into service.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech personnel inspected the site and collected samples to define the extent of the spill. 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 a closure report and submitted it 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 (agent fort COG)	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	Attached ☐
Date: 10/28/13 Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Electra #5 Water Line Leak
Eddy County, New Mexico

16 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14 220 dry	13
19 110	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South 30 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

16 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12 288
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 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

17 South 30 East

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

17 South 31 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	34 271	35	36

18 South 29 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

18 South 30 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

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

Appendix C

Summary Report

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

Report Date: December 15, 2010

Work Order: 10121026

Project Location: Eddy Co., NM
Project Name: COG/Electra Federal #5
Project Number: 114-6400741

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252900	AH-1 0-1'	soil	2010-12-07	00:00	2010-12-10
252901	AH-1 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252902	AH-1 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252903	AH-1 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252904	AH-2 0-1'	soil	2010-12-07	00:00	2010-12-10
252905	AH-2 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252906	AH-2 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252907	AH-2 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252908	AH-2 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252909	AH-2 5-5.5'	soil	2010-12-07	00:00	2010-12-10
252910	AH-3 0-1'	soil	2010-12-07	00:00	2010-12-10
252911	AH-3 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252912	AH-3 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252913	AH-3 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252914	AH-3 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252915	AH-4 0-1'	soil	2010-12-07	00:00	2010-12-10
252916	AH-4 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252917	AH-4 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252918	AH-4 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252919	AH-4 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252920	AH-4 5-5.5'	soil	2010-12-07	00:00	2010-12-10
252921	AH-5 0-1'	soil	2010-12-07	00:00	2010-12-10
252922	AH-5 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252923	AH-5 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252924	AH-5 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252925	AH-5 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252926	AH-5 5-5.5'	soil	2010-12-07	00:00	2010-12-10
252927	AH-6 0-1'	soil	2010-12-07	00:00	2010-12-10
252928	AH-6 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252929	AH-6 2-2.5'	soil	2010-12-07	00:00	2010-12-10

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252930	AH-6 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252931	AH-6 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252932	AH-6 5-5.5'	soil	2010-12-07	00:00	2010-12-10

	BTEX				TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
252900 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	**662**	<2.00
252904 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
252910 - AH-3 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	**3.94**
252915 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
252921 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
252927 - AH-6 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

Sample: 252900 - AH-1 0-1'

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

Sample: 252901 - AH-1 1-1.5'

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

Sample: 252902 - AH-1 2-2.5'

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

Sample: 252903 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**630**	mg/Kg	4.00

Sample: 252904 - AH-2 0-1'

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

Sample: 252905 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**434**	mg/Kg	4.00

Sample: 252906 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**1480**	mg/Kg	4.00

Sample: 252907 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**1350**	mg/Kg	4.00

Sample: 252908 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**2360**	mg/Kg	4.00

Sample: 252909 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**8130**	mg/Kg	4.00

Sample: 252910 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**389**	mg/Kg	4.00

Sample: 252911 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**489**	mg/Kg	4.00

Sample: 252912 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**2350**	mg/Kg	4.00

Sample: 252913 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**14900**	mg/Kg	4.00

Sample: 252914 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**14800**	mg/Kg	4.00

Sample: 252915 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**744**	mg/Kg	4.00

Sample: 252916 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**1070**	mg/Kg	4.00

Sample: 252917 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**2810**	mg/Kg	4.00

Sample: 252918 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**5370**	mg/Kg	4.00

Sample: 252919 - AH-4 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**5040**	mg/Kg	4.00

Sample: 252920 - AH-4 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**5190**	mg/Kg	4.00

Sample: 252921 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**1710**	mg/Kg	4.00

Sample: 252922 - AH-5 1-1.5'

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

Sample: 252923 - AH-5 2-2.5'

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

Sample: 252924 - AH-5 3-3.5'

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

Sample: 252925 - AH-5 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**380**	mg/Kg	4.00

Sample: 252926 - AH-5 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**290**	mg/Kg	4.00

Sample: 252927 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**5870**	mg/Kg	4.00

Sample: 252928 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**7710**	mg/Kg	4.00

Sample: 252929 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**4840**	mg/Kg	4.00

Sample: 252930 - AH-6 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**3440**	mg/Kg	4.00

Sample: 252931 - AH-6 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**874**	mg/Kg	4.00

Sample: 252932 - AH-6 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**245**	mg/Kg	4.00

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: December 15, 2010

Work Order: 10121026

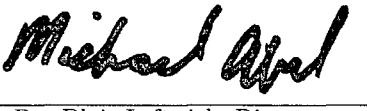
Project Location: Eddy Co., NM
Project Name: COG/Electra Federal #5
Project Number: 114-6400741

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
252900	AH-1 0-1'	soil	2010-12-07	00:00	2010-12-10
252901	AH-1 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252902	AH-1 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252903	AH-1 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252904	AH-2 0-1'	soil	2010-12-07	00:00	2010-12-10
252905	AH-2 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252906	AH-2 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252907	AH-2 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252908	AH-2 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252909	AH-2 5-5.5'	soil	2010-12-07	00:00	2010-12-10

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252910	AH-3 0-1'	soil	2010-12-07	00:00	2010-12-10
252911	AH-3 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252912	AH-3 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252913	AH-3 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252914	AH-3 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252915	AH-4 0-1'	soil	2010-12-07	00:00	2010-12-10
252916	AH-4 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252917	AH-4 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252918	AH-4 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252919	AH-4 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252920	AH-4 5-5.5'	soil	2010-12-07	00:00	2010-12-10
252921	AH-5 0-1'	soil	2010-12-07	00:00	2010-12-10
252922	AH-5 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252923	AH-5 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252924	AH-5 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252925	AH-5 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252926	AH-5 5-5.5'	soil	2010-12-07	00:00	2010-12-10
252927	AH-6 0-1'	soil	2010-12-07	00:00	2010-12-10
252928	AH-6 1-1.5'	soil	2010-12-07	00:00	2010-12-10
252929	AH-6 2-2.5'	soil	2010-12-07	00:00	2010-12-10
252930	AH-6 3-3.5'	soil	2010-12-07	00:00	2010-12-10
252931	AH-6 4-4.5'	soil	2010-12-07	00:00	2010-12-10
252932	AH-6 5-5.5'	soil	2010-12-07	00:00	2010-12-10

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.



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.

Case Narrative

Samples for project COG/Electra Federal #5 were received by TraceAnalysis, Inc. on 2010-12-10 and assigned to work order 10121026. Samples for work order 10121026 were received intact at a temperature of 3.6 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	65313	2010-12-14 at 10:54	76151	2010-12-14 at 12:48
Chloride (Titration)	SM 4500-Cl B	65250	2010-12-13 at 10:17	76124	2010-12-14 at 12:57
Chloride (Titration)	SM 4500-Cl B	65250	2010-12-13 at 10:17	76125	2010-12-14 at 12:58
Chloride (Titration)	SM 4500-Cl B	65250	2010-12-13 at 10:17	76126	2010-12-14 at 12:59
Chloride (Titration)	SM 4500-Cl B	65250	2010-12-13 at 10:17	76127	2010-12-14 at 12:59
TPH DRO - NEW	S 8015 D	65320	2010-12-14 at 09:15	76161	2010-12-14 at 09:15
TPH DRO - NEW	S 8015 D	65321	2010-12-14 at 09:15	76162	2010-12-14 at 09:15
TPH GRO	S 8015 D	65313	2010-12-14 at 10:54	76152	2010-12-14 at 12:48

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 10121026 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: 252900 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.11	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.23	mg/Kg	1	2.00	112	38.4 - 157

Sample: 252900 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76124	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252900 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76161	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65320	Sample Preparation:	2010-12-14	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**662**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	[1]	200	mg/Kg	1	100	200	70 - 130

Sample: 252900 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.34	mg/Kg	1	2.00	117	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.23	mg/Kg	1	2.00	112	42 - 159

Sample: 252901 - AH-1 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76124	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252902 - AH-1 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76124	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

[1] High surrogate recovery due to peak interference.

Sample: 252903 - AH-1 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76124	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**630**	mg/Kg	50	4.00

Sample: 252904 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	Prepared By:	ME

Parameter	Flag	Result	RL 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)		2.16	mg/Kg	1	2.00	108	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.34	mg/Kg	1	2.00	117	38.4 - 157

Sample: 252904 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252904 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76161	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65320	Sample Preparation:	2010-12-14	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		105	mg/Kg	1	100	105	70 - 130

Sample: 252904 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.38	mg/Kg	1	2.00	119	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.35	mg/Kg	1	2.00	118	42 - 159

Sample: 252905 - AH-2 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**434**		mg/Kg	50	4.00

Sample: 252906 - AH-2 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1480**	mg/Kg	100	4.00

Sample: 252907 - AH-2 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252908 - AH-2 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2360**	mg/Kg	100	4.00

Sample: 252909 - AH-2 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8130**	mg/Kg	100	4.00

Sample: 252910 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	Prepared By:	ME

Parameter	Flag	Result	RL	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)		2.24	mg/Kg	1	2.00	112	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.19	mg/Kg	1	2.00	110	38.4 - 157

Sample: 252910 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**389**		mg/Kg	50	4.00

Sample: 252910 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76161	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65320	Sample Preparation:	2010-12-14	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		128	mg/Kg	1	100	128	70 - 130

Sample: 252910 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**3.94**		mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.45	mg/Kg	1	2.00	122	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.77	mg/Kg	1	2.00	138	42 - 159

Sample: 252911 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**489**		mg/Kg	50	4.00

Sample: 252912 - AH-3 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2350**		mg/Kg	100	4.00

Sample: 252913 - AH-3 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**14900**	mg/Kg	100	4.00

Sample: 252914 - AH-3 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**14800**	mg/Kg	100	4.00

Sample: 252915 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.29	mg/Kg	1	2.00	114	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.40	mg/Kg	1	2.00	120	38.4 - 157

Sample: 252915 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**744**	mg/Kg	50	4.00

Sample: 252915 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76162	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65321	Sample Preparation:	2010-12-14	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		106	mg/Kg	1	100	106	70 - 130

Sample: 252915 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.48	mg/Kg	1	2.00	124	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.39	mg/Kg	1	2.00	120	42 - 159

Sample: 252916 - AH-4 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1070**	mg/Kg	100	4.00

Sample: 252917 - AH-4 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2810**	mg/Kg	100	4.00

Sample: 252918 - AH-4 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5370**	mg/Kg	100	4.00

Sample: 252919 - AH-4 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5040**	mg/Kg	100	4.00

Sample: 252920 - AH-4 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5190**	mg/Kg	100	4.00

Sample: 252921 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.16	mg/Kg	1	2.00	108	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.31	mg/Kg	1	2.00	116	38.4 - 157

Sample: 252921 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1710**	mg/Kg	100	4.00

Sample: 252921 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76162	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65321	Sample Preparation:	2010-12-14	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		113	mg/Kg	1	100	113	70 - 130

Sample: 252921 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.36	mg/Kg	1	2.00	118	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.30	mg/Kg	1	2.00	115	42 - 159

Sample: 252922 - AH-5 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252923 - AH-5 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252924 - AH-5 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

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

Sample: 252925 - AH-5 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**380**	mg/Kg	50	4.00

Sample: 252926 - AH-5 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**290**	mg/Kg	50	4.00

Sample: 252927 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.34	mg/Kg	1	2.00	117	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.44	mg/Kg	1	2.00	122	38.4 - 157

Sample: 252927 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5870**	mg/Kg	100	4.00

Sample: 252927 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	76162	Date Analyzed:	2010-12-14	Analyzed By:	kg
Prep Batch:	65321	Sample Preparation:	2010-12-14	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		107	mg/Kg	1	100	107	70 - 130

Sample: 252927 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	Sample Preparation:	2010-12-14	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)		2.55	mg/Kg	1	2.00	128	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.44	mg/Kg	1	2.00	122	42 - 159

Sample: 252928 - AH-6 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**7710**		mg/Kg	100	4.00

Sample: 252929 - AH-6 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4840**		mg/Kg	100	4.00

Sample: 252930 - AH-6 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3440**		mg/Kg	100	4.00

Sample: 252931 - AH-6 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**874**		mg/Kg	50	4.00

Sample: 252932 - AH-6 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	Sample Preparation:	2010-12-13	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**245**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 76124

QC Batch:	76124	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	QC Preparation:	2010-12-13	Prepared By:	AR

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

Method Blank (1) QC Batch: 76125

QC Batch:	76125	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	QC Preparation:	2010-12-13	Prepared By:	AR

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

Method Blank (1) QC Batch: 76126

QC Batch:	76126	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	QC Preparation:	2010-12-13	Prepared By:	AR

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

Method Blank (1) QC Batch: 76127

QC Batch:	76127	Date Analyzed:	2010-12-14	Analyzed By:	AR
Prep Batch:	65250	QC Preparation:	2010-12-13	Prepared By:	AR

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

Method Blank (1) QC Batch: 76151

QC Batch:	76151	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	QC Preparation:	2010-12-14	Prepared By:	ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	66.6 - 122
4-Bromofluorobenzene (4-BFB)		2.02	mg/Kg	1	2.00	101	55.4 - 132

Method Blank (1) QC Batch: 76152

QC Batch:	76152	Date Analyzed:	2010-12-14	Analyzed By:	ME
Prep Batch:	65313	QC Preparation:	2010-12-14	Prepared By:	ME

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.12	mg/Kg	1	2.00	106	67.6 - 150
4-Bromofluorobenzene (4-BFB)		2.03	mg/Kg	1	2.00	102	52.4 - 130

Method Blank (1) QC Batch: 76161

QC Batch: 76161 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65320 | QC Preparation: 2010-12-14 | Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		91.6	mg/Kg	1	100	92	70 - 130

Method Blank (1) QC Batch: 76162

QC Batch: 76162 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65321 | QC Preparation: 2010-12-14 | Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		112	mg/Kg	1	100	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 76124 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<2.18	96	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: 76125 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.5	mg/Kg	1	100	<2.18	96	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	102	mg/Kg	1	100	<2.18	102	85 - 115	7	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: 76126 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.2	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	104	mg/Kg	1	100	<2.18	104	85 - 115	7	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: 76127 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.2	mg/Kg	1	100	<2.18	96	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	104	mg/Kg	1	100	<2.18	104	85 - 115	8	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: 76151 | Date Analyzed: 2010-12-14 | Analyzed By: ME
Prep Batch: 65313 | QC Preparation: 2010-12-14 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.82	mg/Kg	1	2.00	<0.0150	91	81.9 - 108
Toluene	1.80	mg/Kg	1	2.00	<0.00950	90	81.9 - 107
Ethylbenzene	1.82	mg/Kg	1	2.00	<0.0106	91	78.4 - 107
Xylene	5.50	mg/Kg	1	6.00	<0.00930	92	79.1 - 107

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	1.98	mg/Kg	1	2.00	<0.0150	99	81.9 - 108	8	20
Toluene	1.96	mg/Kg	1	2.00	<0.00950	98	81.9 - 107	8	20
Ethylbenzene	2.00	mg/Kg	1	2.00	<0.0106	100	78.4 - 107	9	20
Xylene	6.03	mg/Kg	1	6.00	<0.00930	100	79.1 - 107	9	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)	1.76	1.76	mg/Kg	1	2.00	88	88	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.94	1.89	mg/Kg	1	2.00	97	94	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 76152 | Date Analyzed: 2010-12-14 | Analyzed By: ME
Prep Batch: 65313 | QC Preparation: 2010-12-14 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	69.9 - 95.4

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	16.7	mg/Kg	1	20.0	<1.65	84	69.9 - 95.4	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
Trifluorotoluene (TFT)	2.03	2.04	mg/Kg	1	2.00	102	102	61.9 - 142
4-Bromofluorobenzene (4-BFB)	2.02	2.00	mg/Kg	1	2.00	101	100	65.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 76161 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65320 | QC Preparation: 2010-12-14 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	192	mg/Kg	1	250	<14.6	77	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	214	mg/Kg	1	250	<14.6	86	47.5 - 144.1	11	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	110	124	mg/Kg	1	100	110	124	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 76162 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65321 | QC Preparation: 2010-12-14 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	247	mg/Kg	1	250	<14.6	99	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	246	mg/Kg	1	250	<14.6	98	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	122	122	mg/Kg	1	100	122	122	70 - 130

Matrix Spike (MS-1) Spiked Sample: 252903

QC Batch: 76124 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10900	mg/Kg	100	10000	630	103	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	11300	mg/Kg	100	10000	630	107	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: 252913

QC Batch: 76125 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	24300	mg/Kg	100	10000	14900	94	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	25100	mg/Kg	100	10000	14900	102	85 - 115	3	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: 252923

QC Batch: 76126 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10000	mg/Kg	100	10000	<218	99	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	10500	mg/Kg	100	10000	<218	104	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: 252933

QC Batch: 76127 | Date Analyzed: 2010-12-14 | Analyzed By: AR
Prep Batch: 65250 | QC Preparation: 2010-12-13 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	16300	mg/Kg	100	10000	6580	97	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	16900	mg/Kg	100	10000	6580	103	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: 252958

QC Batch: 76151 | Date Analyzed: 2010-12-14 | Analyzed By: ME
Prep Batch: 65313 | QC Preparation: 2010-12-14 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.93	mg/Kg	1	2.00	<0.0150	96	80.5 - 112
Toluene	1.94	mg/Kg	1	2.00	<0.00950	97	82.4 - 113
Ethylbenzene	2.02	mg/Kg	1	2.00	<0.0106	101	83.9 - 114
Xylene	6.13	mg/Kg	1	6.00	<0.00930	102	84 - 114

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
Benzene	2.00	mg/Kg	1	2.00	<0.0150	100	80.5 - 112	4	20
Toluene	2.03	mg/Kg	1	2.00	<0.00950	102	82.4 - 113	4	20
Ethylbenzene	2.10	mg/Kg	1	2.00	<0.0106	105	83.9 - 114	4	20
Xylene	6.38	mg/Kg	1	6.00	<0.00930	106	84 - 114	4	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)	2.17	2.15	mg/Kg	1	2	108	108	41.3 - 117
4-Bromofluorobenzene (4-BFB)	2.31	2.29	mg/Kg	1	2	116	114	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 253025

QC Batch: 76152 | Date Analyzed: 2010-12-14 | Analyzed By: ME
Prep Batch: 65313 | QC Preparation: 2010-12-14 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.6	mg/Kg	1	20.0	<1.65	88	61.8 - 114

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	18.5	mg/Kg	1	20.0	<1.65	92	61.8 - 114	5	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)	2.40	2.40	mg/Kg	1	2	120	120	50 - 162
4-Bromofluorobenzene (4-BFB)	2.43	2.44	mg/Kg	1	2	122	122	50 - 162

Matrix Spike (MS-1) Spiked Sample: 252939

QC Batch: 76161 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65320 | QC Preparation: 2010-12-14 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	231	mg/Kg	1	250	<14.6	92	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	224	mg/Kg	1	250	<14.6	90	11.7 - 152.3	3	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	124	125	mg/Kg	1	100	124	125	70 - 130

Matrix Spike (MS-1) Spiked Sample: 253106

QC Batch: 76162 | Date Analyzed: 2010-12-14 | Analyzed By: kg
Prep Batch: 65321 | QC Preparation: 2010-12-14 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	210	mg/Kg	1	250	<14.6	84	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	213	mg/Kg	1	250	<14.6	85	11.7 - 152.3	1	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	120	124	mg/Kg	1	100	120	124	70 - 130

Standard (ICV-1)

QC Batch: 76124 | Date Analyzed: 2010-12-14 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-12-14

Standard (CCV-1)

QC Batch: 76124 | Date Analyzed: 2010-12-14 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2010-12-14

Standard (ICV-1)

QC Batch: 76125 | Date Analyzed: 2010-12-14 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.0	98	85 - 115	2010-12-14

Standard (CCV-1)

QC Batch: 76125 | Date Analyzed: 2010-12-14 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-12-14

Standard (ICV-1)

QC Batch: 76126 | Date Analyzed: 2010-12-14 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-12-14

Standard (CCV-1)

QC Batch: 76126 Date Analyzed: 2010-12-14 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-12-14

Standard (ICV-1)

QC Batch: 76127 Date Analyzed: 2010-12-14 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-12-14

Standard (CCV-1)

QC Batch: 76127 Date Analyzed: 2010-12-14 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-12-14

Standard (CCV-1)

QC Batch: 76151 Date Analyzed: 2010-12-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0965	96	80 - 120	2010-12-14
Toluene		mg/Kg	0.100	0.0970	97	80 - 120	2010-12-14
Ethylbenzene		mg/Kg	0.100	0.0967	97	80 - 120	2010-12-14
Xylene		mg/Kg	0.300	0.295	98	80 - 120	2010-12-14

Standard (CCV-2)

QC Batch: 76151 Date Analyzed: 2010-12-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0941	94	80 - 120	2010-12-14
Toluene		mg/Kg	0.100	0.0923	92	80 - 120	2010-12-14
Ethylbenzene		mg/Kg	0.100	0.0889	89	80 - 120	2010-12-14
Xylene		mg/Kg	0.300	0.274	91	80 - 120	2010-12-14

Standard (CCV-1)

QC Batch: 76152 Date Analyzed: 2010-12-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.07	107	80 - 120	2010-12-14

Standard (CCV-2)

QC Batch: 76152 Date Analyzed: 2010-12-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	80 - 120	2010-12-14

Standard (CCV-2)

QC Batch: 76161 Date Analyzed: 2010-12-14 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	80 - 120	2010-12-14

Standard (CCV-3)

QC Batch: 76161 Date Analyzed: 2010-12-14 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	80 - 120	2010-12-14

Standard (CCV-4)

QC Batch: 76161 Date Analyzed: 2010-12-14 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	257	103	80 - 120	2010-12-14

Standard (CCV-1)

QC Batch: 76162 Date Analyzed: 2010-12-14 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	255	102	80 - 120	2010-12-14

Standard (CCV-2)

QC Batch: 76162 Date Analyzed: 2010-12-14 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	80 - 120	2010-12-14

Analysis Request of Chain of Custody Record

WO#: 10121026

PAGE: 1 OF: 4

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

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114400741

PROJECT NAME: COG / Electra Federal #5 Eddy Co, NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
252900	12/2		S		X	AH-1 0-1'	1				X	
901						-1 1-1.5'						
902						-1 2-2.5'						
903						-1 3-3.5'						
904						-2 0-1'						
905						-2 1-1.5'						
906						-2 2-2.5'						
907						-2 3-3.5'						
908						-2 4-4.5'						
909						-2 5-5.5'						

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B; TPH TX1005 (Ext. to C35); TPH 8015 MOD.; PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; Chloride; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 12/10/10 Time: 1030	RECEIVED BY: (Signature)	Date: 12/10/10 Time: 10:30
SAMPLED BY: (Print & Initial) Robert Gibbs Jr.	Date: 12/9/10 Time: 1700		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: Xenco ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: Jessica PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.6°c intact	REMARKS: NOTE: Run deeper samples, if TPH exceed 1,000 mg/kg.		

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

All tests - Midland

Run deeper samples, if Benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg

Xwo #: 1012026

Analysis Request of Chain of Custody Record

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(432) 682-4559 • Fax (432) 682-3946

PAGE: 2 OF: 4

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400 741

PROJECT NAME: COG / Electra Fed #5 Eddy Co, NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST: BTEX 8021B	TPH TX1005 (Ext. to C35)	TPH 8015 MOD.	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
25290	12/7		S		X	AH-3 0-1'	1				X		X	X												X				
911						AH-3 1-1.5'																				X				
912						AH-3 2-2.5'																				X				
913						AH-3 3-3.5'																				X				
914						AH-3 4-4.5'																				X				
915						AH-4 0-1'								X	X											X				
916						AH-4 1-1.5'																				X				
917						AH-4 2-2.5'																				X				
918						AH-4 3-3.5'																				X				
919	↓		↓		↓	AH-4 4-4.5'	↓				↓															X				

RELINQUISHED BY: (Signature)	Date: 12/10/10 Time: 1030	RECEIVED BY: (Signature)	Date: 12/10/10 Time: 10:30
SAMPLED BY: (Print & Initial) Robert Gomez JG	Date: 12/7/10 Time: 1705		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: Xenco ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: Jessica PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.6°C intact	REMARKS:		

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

XWO#: 10121026

Analysis Request of Chain of Custody Record

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

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez
PROJECT NO.: 114-6400741
PROJECT NAME: COG / Electra Fed #5 Eddy/Co N M

ANALYSIS REQUEST (Circle or Specify Method No.): BTEX 8021B (circled), TPH 8015 MOD (circled) TX1005 (Ext. to C35), PAH 8270, RCRA Metals Ag As Ba Cd Cr Pb Hg Se, TCLP Metals Ag As Ba Cd Vr Pd Hg Se, TCLP Volatiles, TCLP Semi Volatiles, RCI, GC.MS Vol. 8240/8260/624, GC.MS Semi. Vol. 8270/625, PCB's 8080/608, Pest. 808/608, Chloride (circled), Gamma Spec., Alpha Beta (Air), PLM (Asbestos), Major Anions/Cations, pH, TDS

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD	Chloride
252920	12/7		S		X	AH-4 5'-5.5'	1				X				Y
921						AH-5 0-1'							X	X	Y
922						AH-5 1'-1.5'									Y
923						AH-5 2'-2.5'									Y
924						AH-5 3'-3.5'									Y
925						AH-5 4'-4.5'									Y
926						AH-5 5'-5.5'									Y
927						AH-6 0-1'							X	X	Y
928						AH-6 1'-1.5'									Y
929	↓		↓		↓	AH-6 2'-2.5'	↓				↓				Y

RELINQUISHED BY: (Signature) [signature] Date: 12/10/10 Time: 1030
RECEIVED BY: (Signature) [signature] Date: 12/10/10 Time: 10:30
SAMPLED BY: (Print & Initial) Robert Grubbs Jr. Date: 12/7/10 Time: 12/7/10
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS ~~HAND DELIVERED~~ UPS AIRBILL #: OTHER:
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:
RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: [illegible] PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.6°C Intact
REMARKS:

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

Lab WO #: 10121026

Analysis Request of Chain of Custody Record

PAGE: 4 OF: 9

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 Tavarez

PROJECT NO.: 114-6400 741

PROJECT NAME: COG / Electra Fed #5 Eddy Co, NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
252930	12/7		S		X	AH-6 3-3.5'	1				X	
931	↓		↓		↓	AH-6 4-4.5'	↓				↓	
932	↓		↓		↓	AH-6 5-5.5'	↓				↓	

BTEX 8021B; TPH 8015 MOD. TX1005 (Ext. to C35); PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; Chloride; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 12/10/10 Time: 1030	RECEIVED BY: (Signature)	Date: 12/10/10 Time: 10:30
SAMPLED BY: (Print & Initial)	Date: 12-7-10 Time: 1715		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: Trace ADDRESS: CITY: Abilene STATE: TX ZIP: CONTACT: Monde PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 5.6°c intact	REMARKS:		

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

Summary Report

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

Report Date: November 11, 2011

Work Order: 11110809

Project Location: Eddy Co, NM
Project Name: COG/Electra Federal #5
Project Number: 114-6401049

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
281835	BH-1 0-1'	soil	2011-11-04	00:00	2011-11-08
281836	BH-1 3'	soil	2011-11-04	00:00	2011-11-08
281837	BH-1 5'	soil	2011-11-04	00:00	2011-11-08
281838	BH-1 7'	soil	2011-11-04	00:00	2011-11-08
281839	BH-1 10'	soil	2011-11-04	00:00	2011-11-08
281840	BH-1 15'	soil	2011-11-04	00:00	2011-11-08
281841	BH-1 20'	soil	2011-11-04	00:00	2011-11-08
281842	BH-1 25'	soil	2011-11-04	00:00	2011-11-08
281843	BH-1 30'	soil	2011-11-04	00:00	2011-11-08
281844	BH-1 40'	soil	2011-11-04	00:00	2011-11-08
281845	BH-1 50'	soil	2011-11-04	00:00	2011-11-08
281846	BH-1 60'	soil	2011-11-04	00:00	2011-11-08
281849	BH-2 0-1'	soil	2011-11-04	00:00	2011-11-08
281850	BH-2 3'	soil	2011-11-04	00:00	2011-11-08
281851	BH-2 5'	soil	2011-11-04	00:00	2011-11-08
281852	BH-2 7'	soil	2011-11-04	00:00	2011-11-08
281853	BH-2 10'	soil	2011-11-04	00:00	2011-11-08
281854	BH-2 15'	soil	2011-11-04	00:00	2011-11-08
281855	BH-2 20'	soil	2011-11-04	00:00	2011-11-08
281856	BH-2 25'	soil	2011-11-04	00:00	2011-11-08
281857	BH-2 30'	soil	2011-11-04	00:00	2011-11-08
281858	BH-2 40'	soil	2011-11-04	00:00	2011-11-08
281859	BH-2 50'	soil	2011-11-04	00:00	2011-11-08
281860	BH-2 60'	soil	2011-11-04	00:00	2011-11-08
281861	BH-2 70'	soil	2011-11-04	00:00	2011-11-08

Sample: 281835 - BH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**791**	mg/Kg	4

Sample: 281836 - BH-1 3'

Param	Flag	Result	Units	RL
Chloride		**461**	mg/Kg	4

Sample: 281837 - BH-1 5'

Param	Flag	Result	Units	RL
Chloride		**2470**	mg/Kg	4

Sample: 281838 - BH-1 7'

Param	Flag	Result	Units	RL
Chloride		**3980**	mg/Kg	4

Sample: 281839 - BH-1 10'

Param	Flag	Result	Units	RL
Chloride		**9370**	mg/Kg	4

Sample: 281840 - BH-1 15'

Param	Flag	Result	Units	RL
Chloride		**13500**	mg/Kg	4

Sample: 281841 - BH-1 20'

Param	Flag	Result	Units	RL
Chloride		**4340**	mg/Kg	4

Sample: 281842 - BH-1 25'

Param	Flag	Result	Units	RL
Chloride		**6340**	mg/Kg	4

Sample: 281843 - BH-1 30'

Param	Flag	Result	Units	RL
Chloride		**8880**	mg/Kg	4

Sample: 281844 - BH-1 40'

Param	Flag	Result	Units	RL
Chloride		**507**	mg/Kg	4

Sample: 281845 - BH-1 50'

Param	Flag	Result	Units	RL
Chloride		**1100**	mg/Kg	4

Sample: 281846 - BH-1 60'

Param	Flag	Result	Units	RL
Chloride		**226**	mg/Kg	4

Sample: 281849 - BH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 281850 - BH-2 3'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 281851 - BH-2 5'

Param	Flag	Result	Units	RL
Chloride		**12400**	mg/Kg	4

Sample: 281852 - BH-2 7'

Param	Flag	Result	Units	RL
Chloride		**13300**	mg/Kg	4

Sample: 281853 - BH-2 10'

Param	Flag	Result	Units	RL
Chloride		**6380**	mg/Kg	4

Sample: 281854 - BH-2 15'

Param	Flag	Result	Units	RL
Chloride		**8670**	mg/Kg	4

Sample: 281855 - BH-2 20'

Param	Flag	Result	Units	RL
Chloride		**5850**	mg/Kg	4

Sample: 281856 - BH-2 25'

Param	Flag	Result	Units	RL
Chloride		**3490**	mg/Kg	4

Sample: 281857 - BH-2 30'

Param	Flag	Result	Units	RL
Chloride		**535**	mg/Kg	4

Sample: 281858 - BH-2 40'

Param	Flag	Result	Units	RL
Chloride		**5040**	mg/Kg	4

Sample: 281859 - BH-2 50'

Param	Flag	Result	Units	RL
Chloride		**1350**	mg/Kg	4

Sample: 281860 - BH-2 60'

Param	Flag	Result	Units	RL
Chloride		**1130**	mg/Kg	4

Sample: 281861 - BH-2 70'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

TRACEANALYSIS, INC.

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: November 11, 2011

Work Order: 11110809

Project Location: Eddy Co, NM
Project Name: COG/Electra Federal #5
Project Number: 114-6401049

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
281835	BH-1 0-1'	soil	2011-11-04	00:00	2011-11-08
281836	BH-1 3'	soil	2011-11-04	00:00	2011-11-08
281837	BH-1 5'	soil	2011-11-04	00:00	2011-11-08
281838	BH-1 7'	soil	2011-11-04	00:00	2011-11-08
281839	BH-1 10'	soil	2011-11-04	00:00	2011-11-08
281840	BH-1 15'	soil	2011-11-04	00:00	2011-11-08
281841	BH-1 20'	soil	2011-11-04	00:00	2011-11-08
281842	BH-1 25'	soil	2011-11-04	00:00	2011-11-08
281843	BH-1 30'	soil	2011-11-04	00:00	2011-11-08
281844	BH-1 40'	soil	2011-11-04	00:00	2011-11-08
281845	BH-1 50'	soil	2011-11-04	00:00	2011-11-08
281846	BH-1 60'	soil	2011-11-04	00:00	2011-11-08
281849	BH-2 0-1'	soil	2011-11-04	00:00	2011-11-08
281850	BH-2 3'	soil	2011-11-04	00:00	2011-11-08
281851	BH-2 5'	soil	2011-11-04	00:00	2011-11-08
281852	BH-2 7'	soil	2011-11-04	00:00	2011-11-08
281853	BH-2 10'	soil	2011-11-04	00:00	2011-11-08
281854	BH-2 15'	soil	2011-11-04	00:00	2011-11-08

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
281855	BH-2 20'	soil	2011-11-04	00:00	2011-11-08
281856	BH-2 25'	soil	2011-11-04	00:00	2011-11-08
281857	BH-2 30'	soil	2011-11-04	00:00	2011-11-08
281858	BH-2 40'	soil	2011-11-04	00:00	2011-11-08
281859	BH-2 50'	soil	2011-11-04	00:00	2011-11-08
281860	BH-2 60'	soil	2011-11-04	00:00	2011-11-08
281861	BH-2 70'	soil	2011-11-04	00:00	2011-11-08

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.

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

Report Contents

Case Narrative

Samples for project COG/Electra Federal #5 were received by TraceAnalysis, Inc. on 2011-11-08 and assigned to work order 11110809. Samples for work order 11110809 were received intact at a temperature of 3.4 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	73246	2011-11-09 at 12:08	86287	2011-11-10 at 10:48
Chloride (Titration)	SM 4500-Cl B	73246	2011-11-09 at 12:08	86288	2011-11-10 at 10:48
Chloride (Titration)	SM 4500-Cl B	73246	2011-11-09 at 12:08	86289	2011-11-10 at 10:49

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 11110809 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: 281835 - BH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**791**	mg/Kg	100	4.00

Sample: 281836 - BH-1 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**461**	mg/Kg	50	4.00

Sample: 281837 - BH-1 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**2470**	mg/Kg	100	4.00

Sample: 281838 - BH-1 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**3980**	mg/Kg	100	4.00

Sample: 281839 - BH-1 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**9370**	mg/Kg	100	4.00

Sample: 281840 - BH-1 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**13500**	mg/Kg	100	4.00

Sample: 281841 - BH-1 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**4340**	mg/Kg	100	4.00

Sample: 281842 - BH-1 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**6340**	mg/Kg	100	4.00

Sample: 281843 - BH-1 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**8880**	mg/Kg	100	4.00

Sample: 281844 - BH-1 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**507**	mg/Kg	50	4.00

Sample: 281845 - BH-1 50'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**1100**	mg/Kg	100	4.00

Sample: 281846 - BH-1 60'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**226**	mg/Kg	50	4.00

Sample: 281849 - BH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter		Flag	Cert	Result	RL Units	Dilution	RL
Chloride	U	U		<200	mg/Kg	50	4.00

Sample: 281850 - BH-2 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U	U		<200	mg/Kg	50	4.00

Sample: 281851 - BH-2 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**12400**	mg/Kg	100	4.00

Sample: 281852 - BH-2 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**13300**	mg/Kg	100	4.00

Sample: 281853 - BH-2 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**6380**	mg/Kg	100	4.00

Sample: 281854 - BH-2 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**8670**	mg/Kg	100	4.00

Sample: 281855 - BH-2 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**5850**	mg/Kg	100	4.00

Sample: 281856 - BH-2 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**3490**	mg/Kg	100	4.00

Sample: 281857 - BH-2 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**535**	mg/Kg	50	4.00

Sample: 281858 - BH-2 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**5040**	mg/Kg	100	4.00

Sample: 281859 - BH-2 50'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**1350**	mg/Kg	100	4.00

Sample: 281860 - BH-2 60'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**1130**	mg/Kg	100	4.00

Sample: 281861 - BH-2 70'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	Sample Preparation:	2011-11-09	Prepared By:	AR

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

Method Blanks

Method Blank (1) QC Batch: 86287

QC Batch:	86287	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	QC Preparation:	2011-11-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 86288

QC Batch:	86288	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	QC Preparation:	2011-11-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 86289

QC Batch:	86289	Date Analyzed:	2011-11-10	Analyzed By:	AR
Prep Batch:	73246	QC Preparation:	2011-11-09	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: 86287 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			96.5	mg/Kg	1	100	<3.85	96	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			103	mg/Kg	1	100	<3.85	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: 86288 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			96.6	mg/Kg	1	100	<3.85	97	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			102	mg/Kg	1	100	<3.85	102	85 - 115	5	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: 86289 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			95.6	mg/Kg	1	100	<3.85	96	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			102	mg/Kg	1	100	<3.85	102	85 - 115	6	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: 281839

QC Batch: 86287 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			19600	mg/Kg	100	10000	9670	99	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			20300	mg/Kg	100	10000	9670	109	79.4 - 120.6	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: 281851

QC Batch: 86288 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			23200	mg/Kg	100	10000	12400	108	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			24000	mg/Kg	100	10000	12400	116	79.4 - 120.6	3	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: 281861

QC Batch: 86289 | Date Analyzed: 2011-11-10 | Analyzed By: AR
Prep Batch: 73246 | QC Preparation: 2011-11-09 | Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			10300	mg/Kg	100	10000	<385	101	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			10600	mg/Kg	100	10000	<385	104	79.4 - 120.6	3	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: 86287 | Date Analyzed: 2011-11-10 | 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	99.2	99	85 - 115	2011-11-10

Standard (CCV-1)

QC Batch: 86287 | Date Analyzed: 2011-11-10 | 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	2011-11-10

Standard (ICV-1)

QC Batch: 86288 | Date Analyzed: 2011-11-10 | 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	99.8	100	85 - 115	2011-11-10

Standard (CCV-1)

QC Batch: 86288 | Date Analyzed: 2011-11-10 | 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	100	100	85 - 115	2011-11-10

Standard (ICV-1)

QC Batch: 86289 | Date Analyzed: 2011-11-10 | 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	99.8	100	85 - 115	2011-11-10

Standard (CCV-1)

QC Batch: 86289 | Date Analyzed: 2011-11-10 | 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	100	100	85 - 115	2011-11-10

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

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 then 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.

WO # 11110809

Analysis Request of Chain of Custody Record

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

PAGE: 1 OF: 3

CLIENT NAME: FERGUSON

SITE MANAGER: IKE TAVAREZ

PROJECT NO.: 114-640 1049

PROJECT NAME: COG/ELECTRA FEDERAL #5 EDDY CO, NM

LAB I.D. NUMBER	DATE 2011	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
281835	11-4		S		X	BH-1 0-1'	1				X	
836						3'	1					
837						5'	1					
838						7'	1					
839						10'	1					
840						15'	1					
841						20'	1					
842						~~20~~ 25'	1					
843						30'	1					
844						40'	1					

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B; TPH 8015 MOD. TX1005 (Ext. to C35); PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; (Chloride); Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anlons/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 11-8-11 Time: 10:37	RECEIVED BY: (Signature)	Date: 11/8/11 Time: 10:37
SAMPLED BY: (Print & Initial) Kim	Date: 11-4-11 Time:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: IKE TAVAREZ	Results by: RUSH Charges Authorized: Yes No		
RECEIVING LABORATORY: TRACE ADDRESS: CITY: MIDLAND STATE: TX ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		
SAMPLE CONDITION WHEN RECEIVED: 34°C intact	REMARKS: All tests Midland		

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

WO# 11110809

Analysis Request of Chain of Custody Record

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

CLIENT NAME: FERGUSON

SITE MANAGER: IKE TAVAREZ

PROJECT NO.: 114-C40 1649

PROJECT NAME: COG / ELECTRA FEDERAL #5
EDDY CO., NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE 2011	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chlorides	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
20845	11-4		S		X	BH-1 50'	1				X														X				
846						60'	1																		X				
847						70'	1																		Hold				
848						80'	1																		Hold				
849						BH-2 0-1	1																		X				
850						3'	1																		X				
851						5'	1																		X				
852						7'	1																		X				
853						10'	1																		X				
854						15'	1																		X				

RELINQUISHED BY: (Signature) — Date: 11-4-11 Time: 10:37 AM
RECEIVED BY: (Signature) — Date: 11/8/11 Time: 10:37

SAMPLED BY: (Print & Initial) Kim — Date: 11-4-11 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: TRACE
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON: IKE TAVAREZ

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.4°C iNtact

REMARKS:

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

WO # 1110804

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: FERGUSON

SITE MANAGER: IKE TAVAREZ

PROJECT NO.: 114-640-1649

PROJECT NAME: COG / ELECTRA FEDERAL #5 EDDY CO., NM

LAB I.D. NUMBER	DATE 2011	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
281855	11-4		S		X	BH-2 20'	1				X														X				
856						25'	1																		X				
857						30'	1																		X				
858						40'	1																		X				
859						50'	1																		X				
860						60'	1																		X				
861						70'	1																		X				
862						80'	1																		Hold				

RELINQUISHED BY: (Signature) [signature] Date: 11-8-11 Time: 1037

RECEIVED BY: (Signature) [signature] Date: 11/8/11 Time: 10:37

SAMPLED BY: (Print & Initial) Kim Date: 11-4-11 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS (HAND DELIVERED) UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: IKE TAVAREZ

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: TRACE
ADDRESS:
CITY: MIDLAND STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED: 3.4°C intact

REMARKS:

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

Summary Report

(Corrected Report)

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

Report Date: October 24, 2013

Work Order: 13100420

Project Location: Eddy Co, NM
Project Name: COG/Electra Fed #5 Water Line
Project Number: 112MC05971

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
343336	AH-2 BH	soil	2013-09-11	00:00	2013-10-04
343337	AH-2 South SW	soil	2013-09-11	00:00	2013-10-04
343338	AH-2 East SW	soil	2013-09-12	00:00	2013-10-04
343339	AH-2 West SW	soil	2013-09-11	00:00	2013-10-04
343340	AH-3 BH	soil	2013-09-12	00:00	2013-10-04
343341	AH-3 North SW	soil	2013-09-12	00:00	2013-10-04
343342	AH-3 West SW	soil	2013-09-12	00:00	2013-10-04
343343	AH-3 East SW	soil	2013-09-12	00:00	2013-10-04
343344	AH-4 BH	soil	2013-09-10	00:00	2013-10-04
343345	AH-4 South SW	soil	2013-09-12	00:00	2013-10-04
343346	AH-4 East SW	soil	2013-09-12	00:00	2013-10-04
343347	AH-4 West SW	soil	2013-09-12	00:00	2013-10-04
343348	AH-5 BH	soil	2013-09-10	00:00	2013-10-04
343349	AH-5 East SW	soil	2013-09-10	00:00	2013-10-04
343350	AH-5 West SW	soil	2013-09-11	00:00	2013-10-04
343351	AH-6 BH	soil	2013-09-13	00:00	2013-10-04
343352	AH-6 North SW	soil	2013-09-10	00:00	2013-10-04
343353	AH-6 West SW	soil	2013-09-10	00:00	2013-10-04
343354	AH-6 East SW	soil	2013-09-10	00:00	2013-10-04

Sample: 343336 - AH-2 BH

Param	Flag	Result	Units	RL
Chloride		**2990**	mg/Kg	4

Sample: 343337 - AH-2 South SW

Param	Flag	Result	Units	RL
Chloride		**104**	mg/Kg	4

Sample: 343338 - AH-2 East SW

Param	Flag	Result	Units	RL
Chloride		**471**	mg/Kg	4

Sample: 343339 - AH-2 West SW

Param	Flag	Result	Units	RL
Chloride		**1200**	mg/Kg	4

Sample: 343340 - AH-3 BH

Param	Flag	Result	Units	RL
Chloride		**5970**	mg/Kg	4

Sample: 343341 - AH-3 North SW

Param	Flag	Result	Units	RL
Chloride		**570**	mg/Kg	4

Sample: 343342 - AH-3 West SW

Param	Flag	Result	Units	RL
Chloride		**190**	mg/Kg	4

Sample: 343343 - AH-3 East SW

Param	Flag	Result	Units	RL
Chloride		**441**	mg/Kg	4

Sample: 343344 - AH-4 BH

Param	Flag	Result	Units	RL
Chloride		**656**	mg/Kg	4

Sample: 343345 - AH-4 South SW

Param	Flag	Result	Units	RL
Chloride		**266**	mg/Kg	4

Sample: 343346 - AH-4 East SW

Param	Flag	Result	Units	RL
Chloride		**591**	mg/Kg	4

Sample: 343347 - AH-4 West SW

Param	Flag	Result	Units	RL
Chloride		**205**	mg/Kg	4

Sample: 343348 - AH-5 BH

Param	Flag	Result	Units	RL
Chloride		**75.2**	mg/Kg	4

Sample: 343349 - AH-5 East SW

Param	Flag	Result	Units	RL
Chloride		**135**	mg/Kg	4

Sample: 343350 - AH-5 West SW

Param	Flag	Result	Units	RL
Chloride		**406**	mg/Kg	4

Sample: 343351 - AH-6 BH

Param	Flag	Result	Units	RL
Chloride		**170**	mg/Kg	4

Sample: 343352 - AH-6 North SW

Param	Flag	Result	Units	RL
Chloride		**30.1**	mg/Kg	4

Sample: 343353 - AH-6 West SW

Param	Flag	Result	Units	RL
Chloride		**146**	mg/Kg	4

Sample: 343354 - AH-6 East SW

Param	Flag	Result	Units	RL
Chloride		**186**	mg/Kg	4