SITE INFORMATION

Report Type: Closure Report 2RP-453

General Site Information:		
Site:	Beech Federal #2 Tank Battery	
Company:	COG Operating LLC	
Section, Township and Range	Unit J Sec. 25 T17S R27E	
Lease Number:	LC 058181	
County:	Eddy County	
GPS:	32.80212° N	104.22891° W
Surface Owner:	Federal	
Mineral Owner:		
Directions:	From US-82 and CR-204 (Hill Top Road), travel south on CR-204 0.7 mi, left on lease road 350', stay right 0.2 mi to location.	

Release Data:	
Date Released:	7/4/2010
Type Release:	Produced Water
Source of Contamination:	Heater Treater fire tube gasket failure
Fluid Released:	20 bbls
Fluids Recovered:	23 bbls

Official Communication:			
Name:	Pat Ellis		Kim Dorey
Company:	COG Operating, LLC		Tetra Tech
Address:	550 W. Texas Ave. Ste. 1300		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 631-0348
Fax:	(432) 684-7137		
Email:	pellis@conchoresources.com		kim.dorey@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	
50-99 ft	10	
>100 ft.	***0***	***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

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TETRA TECH

May 13, 2011

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

Re: Closure Report for the COG Operating LLC., Beech Federal #2 Tank Battery, Unit J, Section 25, Township 17 South, Range 27 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill at the Beech Federal #2 Tank Battery, Unit J, Section 25, Township 17 South, Range 27 East, Eddy County, New Mexico. (Site). The spill site coordinates are N 32.80212°, W 104.22891°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on July 4, 2010, and released approximately twenty (20) barrels of produced water from a failed fire tube gasket at the heater treater. To alleviate the problem, COG personnel replaced the fire tube gasket. Due to recent rain, twenty-three (23) barrels of standing fluids were recovered. The impacted area measured approximately 30' x 110', east of the heater treater. The entire spill was contained within the facility's firewalls. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 25. According to the NMOCD groundwater map, the average depth to groundwater in this area is 125' below surface. The average depth to groundwater map is shown in Appendix B.

Tetra Tech
1910 North Big Spring, 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 August 10, 2010, Tetra Tech personnel inspected and sampled the spill area. Using a stainless steel hand auger to assess the soils a total of three (3) auger holes (AH-1 through AH-3) were installed in the spill area and one (1) auger hole (background) was installed outside the facility. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. A shallow chloride impact was detected in AH-2 and AH-3 to a depth of 1.5' to 2.0' below surface. Auger hole (AH-1) did show a deeper impact that declined with depth to 1,300 mg/kg at 3-3.5' below surface. The background auger hole showed a chloride high of 508 mg/kg at 2-2.5' below surface.

Remedial Work and Closure Request

On November 10, 2010, Tetra Tech personnel supervised the excavation of the site. The soil remediation was performed according to the approved work plan. As proposed, the areas of AH-2 and AH-3 were excavated to 1'-2' bgs. A test trench (T-1) was installed near AH-1 and samples were collected for laboratory analysis. Based on the analytical results of T-1, the area near the trench was excavated to a depth of approximately 8'-10' bgs. The results of T-1 and excavation depths are shown on Table 1. The excavation areas are shown on Figure 4.

TETRA TECH

On November 10, 2010, Terry Gregston with the Bureau of Land Management, inspected the site and witnessed the collection of confirmation samples (CS-1, CS-2, and CS-3). The CS samples were submitted for laboratory analysis. All CS samples had chloride concentrations less than 368 mg/kg. The results of the CS samples are summarized on Table 1.

The excavated areas were backfilled with clean material and brought up to surface grade. Approximately 500 yards^3 were removed and hauled to CRI Inc. for proper disposal.

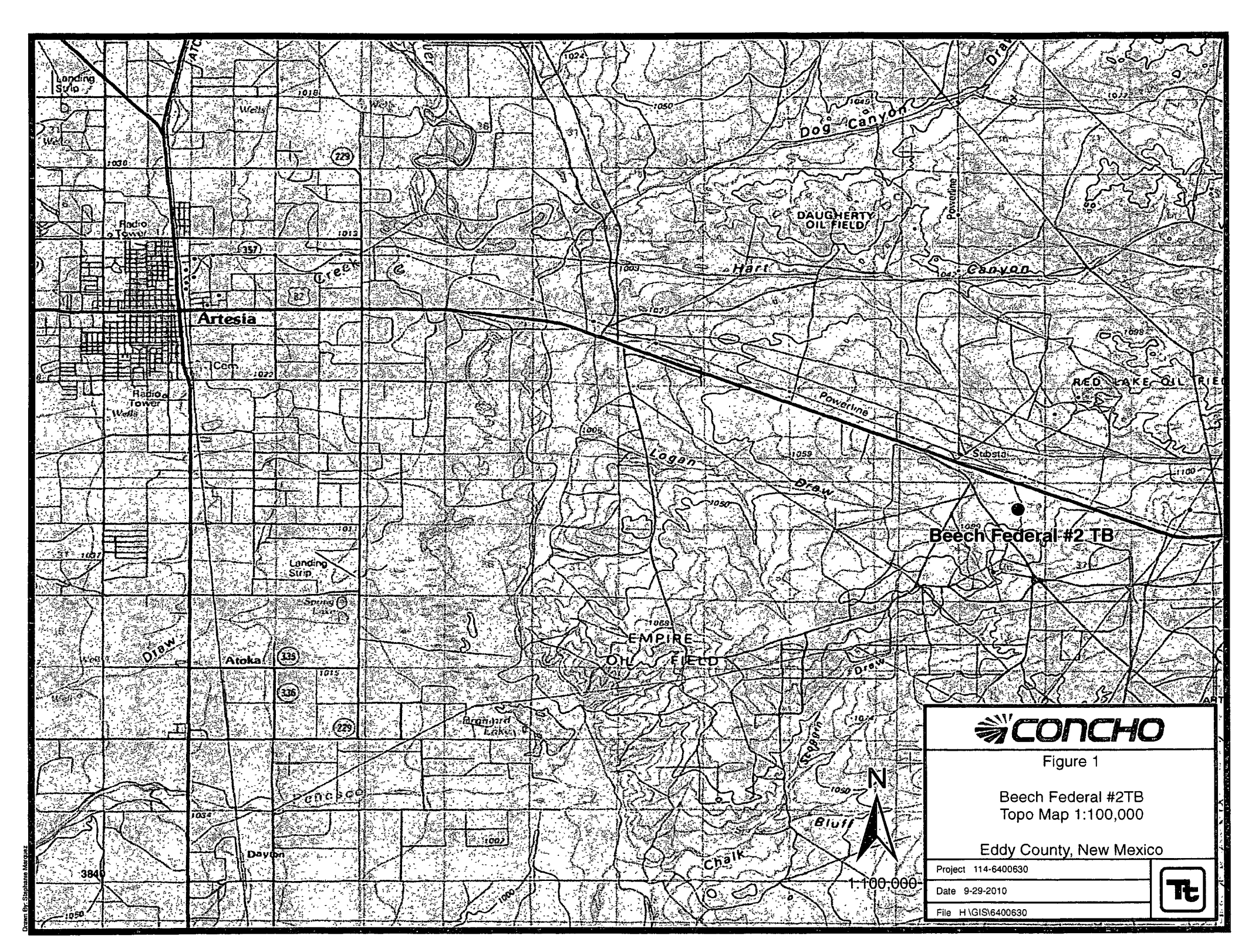
Based on the remedial activities performed at this site, COG request closure of this site. A copy of the C-141 (Final) is included in Appendix A. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

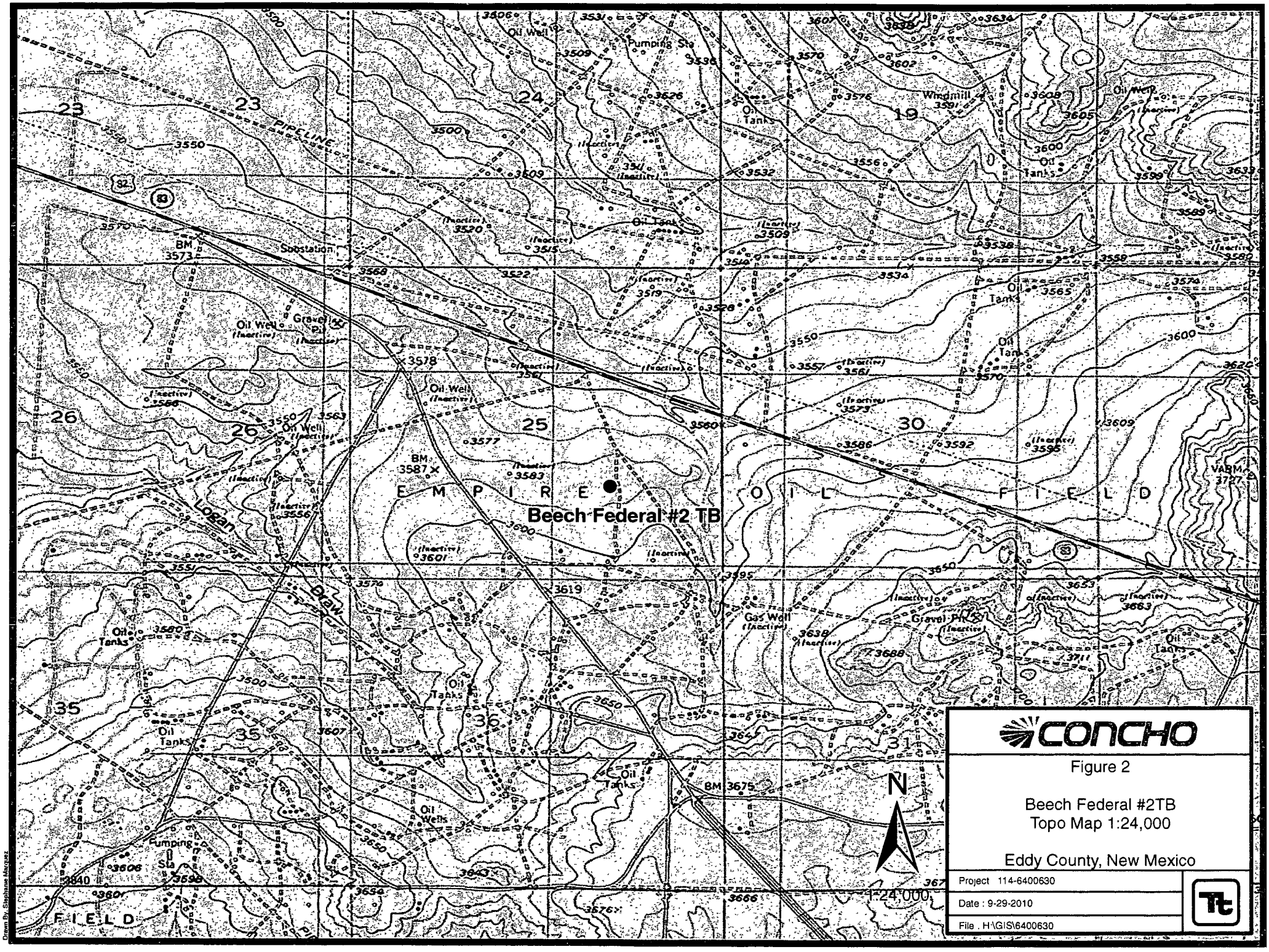
Respectfully submitted,
TETRA TECH

Kim Dorey
Staff II Geologist

cc: Pat Ellis – COG
cc: Terry Gregston – BLM

FIGURES


Dog Canyon
DAUGHERTY OIL FIELD
Powerline
Hart Canyon
Artesia
Powerline
Logan Draw
Beech Federal #2 TB
EMPIRE OIL FIELD
Atoka
Penasco
Dayton
Bluff
Chalk
N
1:100,000
CONCHO
Figure 1
Beech Federal #2TB
Topo Map 1:100,000
Eddy County, New Mexico
Project 114-6400630
Date 9-29-2010
File H:\GIS\6400630
Drawn By: Stephanie Marquez



CONCHO

Figure 2

Beech Federal #2TB
Topo Map 1:24,000

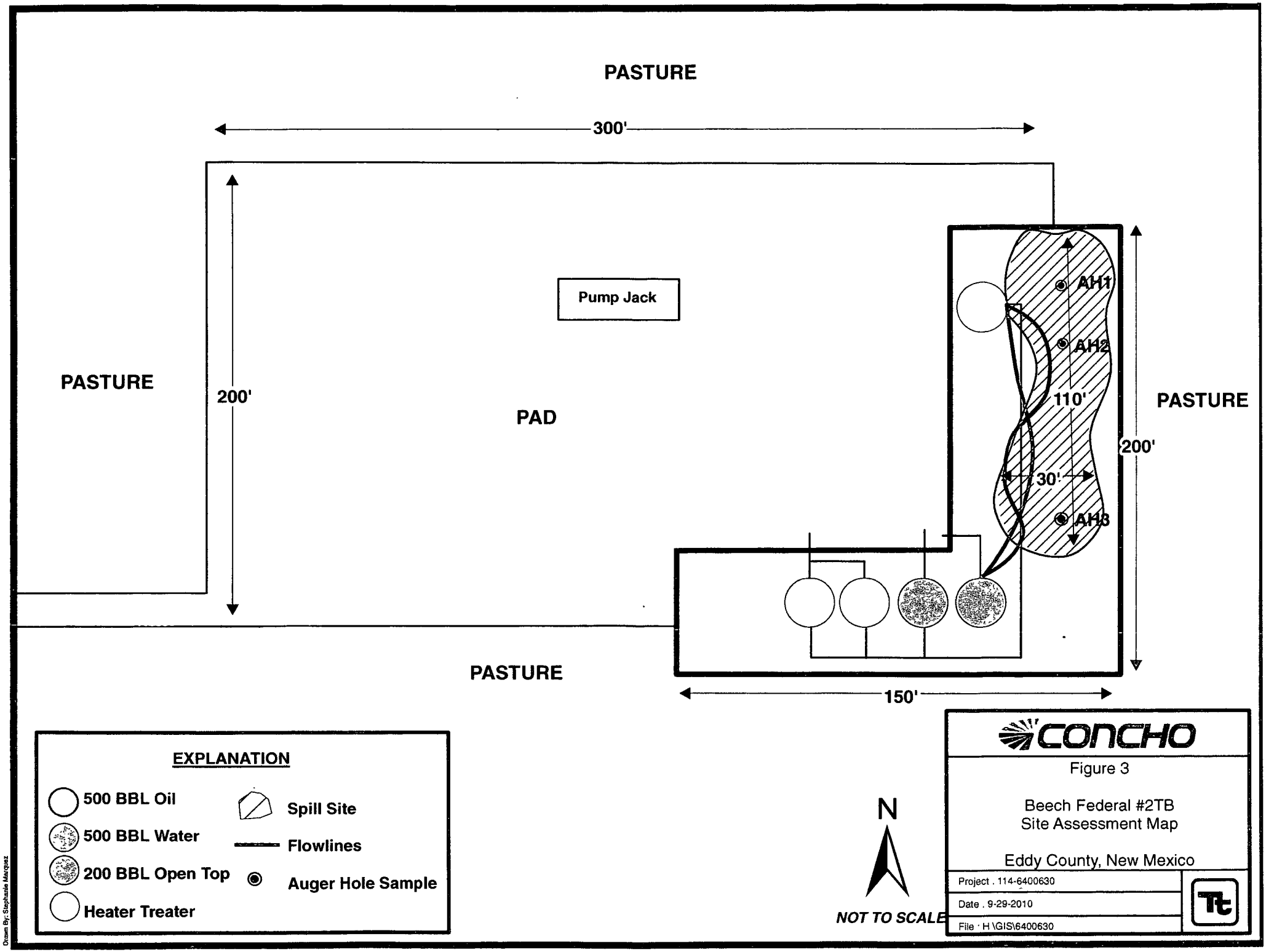
Eddy County, New Mexico

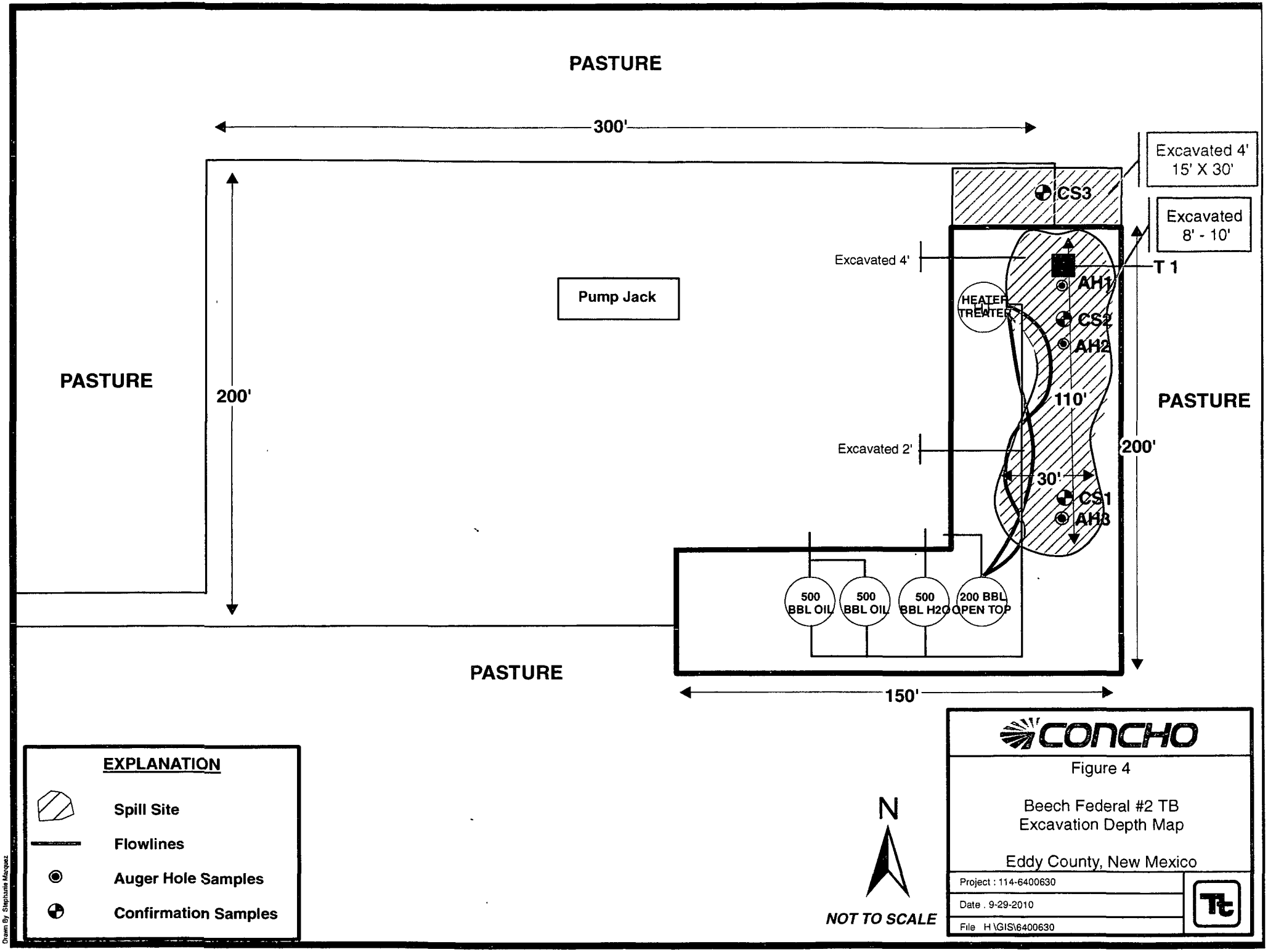
Project 114-6400630

Date : 9-29-2010

File . H:\GIS\6400630

Drawn By: Stephanie Marquez


PASTURE
300'
PASTURE
200'
Pump Jack
PAD
AH1
AH2
110'
30'
AH3
200'
PASTURE
PASTURE
150'
EXPLANATION
500 BBL Oil
500 BBL Water
200 BBL Open Top
Heater Treater
Spill Site
Flowlines
Auger Hole Sample
N
NOT TO SCALE
CONCHO
Figure 3
Beech Federal #2TB
Site Assessment Map
Eddy County, New Mexico
Project . 114-6400630
Date . 9-29-2010
File · H \GIS\6400630
Drawn By: Stephanie Marquez

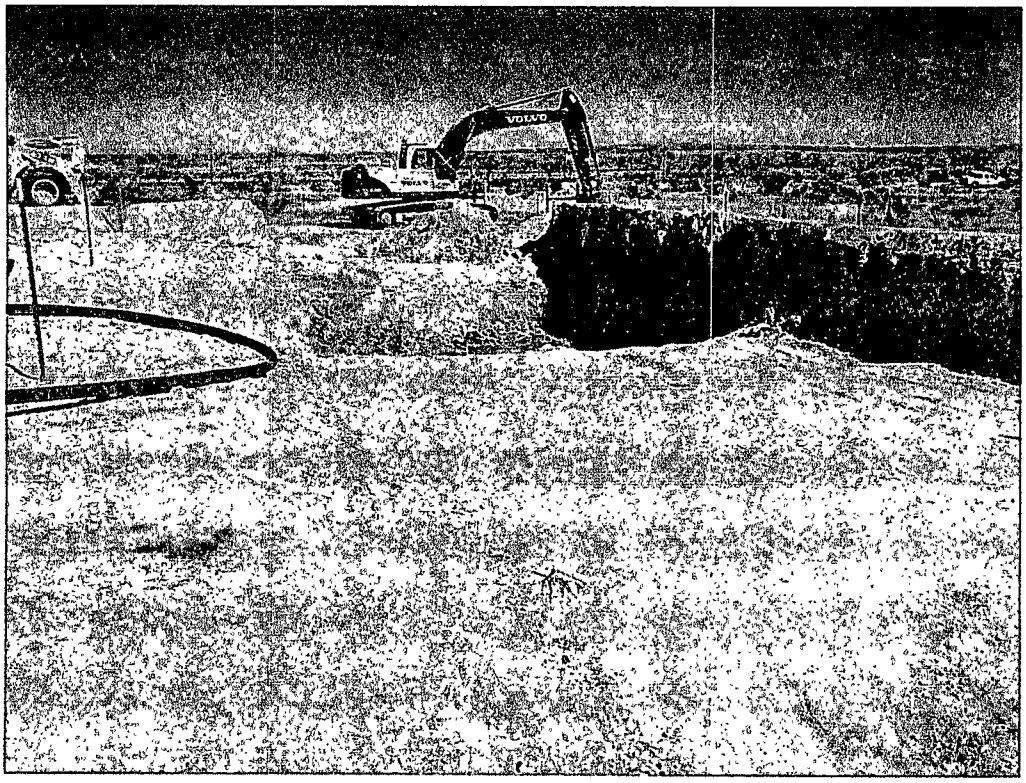

PASTURE
300'
Excavated 4'
15' X 30'
CS3
Excavated
8' - 10'
Excavated 4'
T 1
Pump Jack
AH1
HEATER
TREATER
CS2
AH2
PASTURE
200'
110'
PASTURE
Excavated 2'
200'
30'
CS1
AH3
500
BBL OIL
500
BBL OIL
500
BBL H2O
200 BBL
OPEN TOP
PASTURE
150'
EXPLANATION
Spill Site
Flowlines
Auger Hole Samples
Confirmation Samples
N
NOT TO SCALE
CONCHO
Figure 4
Beech Federal #2 TB
Excavation Depth Map
Eddy County, New Mexico
Project : 114-6400630
Date . 9-29-2010
File H:\GIS\6400630
Drawn By: Stephanie Marquez

PHOTOGRAPHS

COG Operating LLC
Beech Federal #2 TB
Eddy County, New Mexico

TETRA TECH

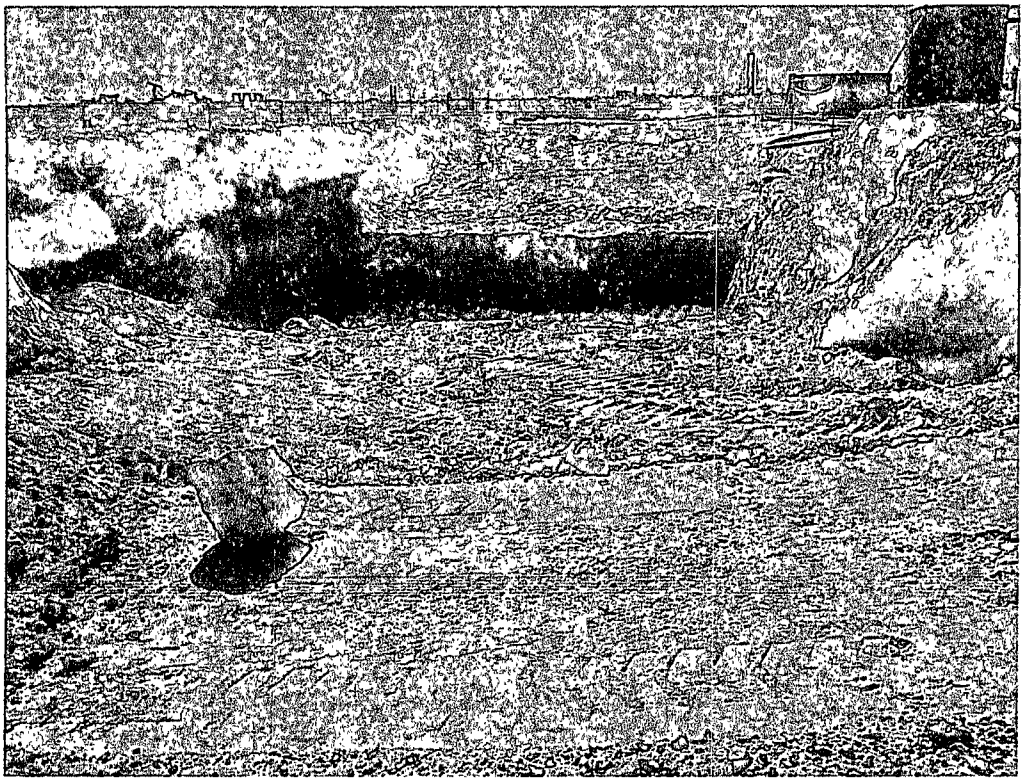
Area near AH-1 and AH-2 (8/10/10)



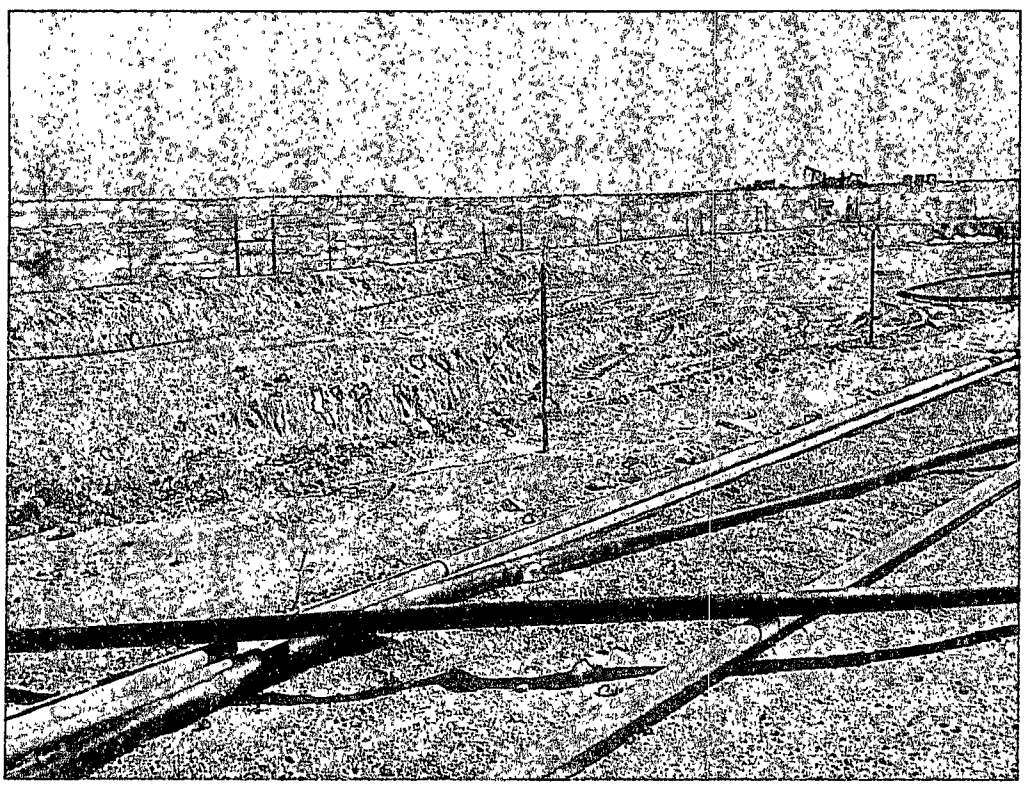
Excavation near T-1 (11/10/10)

COG Operating LLC
Beech Federal #2 TB
Eddy County, New Mexico

TETRA TECH



Final depth approximately 8'-10' bgs



Backfilling area with clean material

TABLES

Table 1
COG Operating LLC.
BEECH FEDERAL #2 TANK BATTERY
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-1	8/10/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	10,100
	"	1-1.5'			X	-	-	-	-	-	-	-	10,500
	"	2-2.5'			X	-	-	-	-	-	-	-	9,380
	"	3-3.5'			X	-	-	-	-	-	-	-	1,300
T-1	11/10/2010	0-1'	4' bottom		X								1,700
		-	6'		X								1,070
		-	8'		X								3,660
		-	10'	X									730
			12'	X									445
AH-2	8/10/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	9,970
	"	1-1.5'			X	-	-	-	-	-	-	-	4,350
	"	2-2.5'		X		-	-	-	-	-	-	-	368
	"	3-3.5'		X		-	-	-	-	-	-	-	259
	"	4-4.5'		X		-	-	-	-	-	-	-	353
	"	5-5.5'		X		-	-	-	-	-	-	-	244
CS-2	11/10/2010	0-1'	2' bottom	X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
BEECH FEDERAL #2 TANK BATTERY
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-3	8/10/2010	0-1'			X	<2.00	<50.0	<50.0	-	-	-	-	7,520
	"	1-1.5'			X	-	-	-	-	-	-	-	4,010
	"	2-2.5'		X		-	-	-	-	-	-	-	407
CS-1	11/10/2010	0-1'	2' bottom	X		-	-	-	-	-	-	-	368
CS-3	11/10/2010	0-1'	3' bottom	X		-	-	-	-	-	-	-	<200
BG	8/10/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	212
	"	1-1.5'		X		-	-	-	-	-	-	-	317
	"	2-2.5'		X		-	-	-	-	-	-	-	508
	"	3-3.5'		X		-	-	-	-	-	-	-	328

[ ]	Excavation Depths	AH	Auger Hole Sample
(--)	Not Analyzed	BG	Background Sample
BEB	Below Excavation Bottom	CS	Confirmation Samples
		T-1	Backhoe Test Trench

APPENDIX A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W Texas, Suite 100, Midland, TX 79701	Telephone No	432-230-0077
Facility Name	Beech Federal #2 Tank Battery	Facility Type	Tank Battery

Surface Owner Federal	Mineral Owner	Lease No NMLC-058181

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	25	17S	27E					Eddy

Latitude 32 48.140 **Longitude** 104 13.725

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20bbls	Volume Recovered 23bbls
Source of Release Heater Treater	Date and Hour of Occurrence 07/04/2010	Date and Hour of Discovery 07/04/2010 9:00 a.m
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	

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NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully *

Describe Cause of Problem and Remedial Action Taken *

Heater treater fire tube gasket failed. The heater treater fire tube gasket has been replaced and the heater treater has been put back into service

Describe Area Affected and Cleanup Action Taken *

Initially 20bbls of produced water was released from the heater treater. Due to rainwater, we were able to recover 23bbls of free fluid from a low area where the fluid pooled behind the heater treater. All free fluids were recovered. The dimensions of the pooling area was 20' x 40'. All fluid was contained inside the firewall of the facility. (The closest well location to the release is the Beech Federal #2, API# 30-015-31790, Unit J, Sec. 25-T17S-R27E, 1650' FSL 1650' FEL. 32.8023065 – 104.229053) Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD / BLM for approval prior to any significant remediation work

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

Signature	OIL CONSERVATION DIVISION
Printed Name: Josh Russo	Approved by District Supervisor:
Title: HSE Coordinator	Approval Date: / Expiration Date:
E-mail Address: jrusso@conchoresources.com	Conditions of Approval: / Attached ☐
Date: 07/16/2010 Phone: 432-212-2399	

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - Beech Federal #2 Tank Battery
Eddy County, New Mexico

16 South 26 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 27 East

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

16 South 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 **61**	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South 26 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

17 South 27 East

6	5 **30**	4	3	2	1
7 **14**	8	9	10	11 **54** **50**	12
18 **86**	17 **283**	16 **194**	15	14	13
19	20	21	22	23 **40**	24
30	29	28	27	26	25 **SITE**
31	32 **120**	33	34	35	36

17 South 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 **79**	23	24
30	29	28	27	26	25
31	32	33	34 **53**	35	36

18 South 26 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 27 East

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

18 South 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 **65**	36

- New Mexico State Engineers Well Reports
- USGS Well Reports
- Geology and Groundwater Conditions in Southern Eddy, County, NM
- NMOCD - Groundwater Data
- Field water level
- New Mexico Water and Infrastructure Data System

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 01493		IRR	ED		2	1	27	17S	27E	568468	3630529*	876		
RA 01716 S		COM	ED	4	4	3	16	17S	27E	566953	3632420*	1200		
RA 02966		DOM	ED	4	4	4	05	17S	27E	566117	3635707*	80	30	50
RA 03279		DOM	ED		3	2	07	17S	27E	564020	3635011*	250	14	236
RA 03661		PRO	ED	3	2	3	32	17S	27E	565186	3628038*	330	140	190
RA 03664		DOM	CH	3	2	3	32	17S	27E	565186	3628038*	400	100	300
RA 03694		DOM	ED			4	17	17S	27E	565854	3632721*	300	90	210
RA 03816		DOM	CH			4	17	17S	27E	565854	3632721*	945	931	14
RA 04114		DOM	LE	4	4	3	16	17S	27E	566953	3632420*	1042	260	782
RA 04153		DOM	CH	4	4	3	16	17S	27E	566953	3632420*	1220	175	1045
RA 04320		DOM	ED			3	17	17S	27E	565053	3632719*	120	50	70
RA 04554		PRO	ED			1	23	17S	27E	569859	3631947*	220	40	180
RA 04561		PRO	ED		4	2	26	17S	27E	570871	3630142*	250		
RA 04786		DOM	ED	4	3	2	18	17S	27E	564133	3633277*	138	111	27
RA 06531		DOM	ED	4	1	4	17	17S	27E	565747	3632821*	200		
RA 06560		DOM	CH	2	1	2	20	17S	27E	565757	3632217*	133	80	53
RA 06635		DOM	ED	2	2	2	18	17S	27E	564531	3633852*	325	60	265
RA 07774		STK	ED	3	2	1	11	17S	27E	569933	3635251*	100	50	50
RA 07844		EXP	ED	3	4	3	16	17S	27E	566753	3632420*	1300	180	1120
RA 07844 EXPL		EXP	ED		4	3	16	17S	27E	566854	3632521*	1300	180	1120
RA 08823		DOM	ED	1	1	3	17	17S	27E	564745	3633019*	348	60	288
											Average Depth to Water		**150 feet**	
											Minimum Depth		**14 feet**	
											Maximum Depth		**931 feet**	

Record Count: 21

PLSS Search:

Section(s): 1-36 **Township:** 17S **Range:** 27E

***UTM location was derived from PLSS - see Help**

APPENDIX C

Summary Report

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

Report Date: August 23, 2010

Work Order: 10081609

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number: 114-6400630

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241062	AH-1 0-1'	soil	2010-08-10	00:00	2010-08-13
241063	AH-1 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241064	AH-1 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241065	AH-1 3-3 5'	soil	2010-08-10	00:00	2010-08-13
241066	AH-2 0-1'	soil	2010-08-10	00:00	2010-08-13
241067	AH-2 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241068	AH-2 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241069	AH-2 3-3.5'	soil	2010-08-10	00:00	2010-08-13
241070	AH-2 4-4.5'	soil	2010-08-10	00:00	2010-08-13
241071	AH-2 5-5.5'	soil	2010-08-10	00:00	2010-08-13
241072	AH-3 0-1'	soil	2010-08-10	00.00	2010-08-13
241073	AH-3 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241074	AH-3 2-2.5'	soil	2010-08-10	00.00	2010-08-13
241075	BG-Background 0-1'	soil	2010-08-10	00:00	2010-08-13
241076	BG-Background 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241077	BG-Background 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241078	BG-Background 3-3.5'	soil	2010-08-10	00:00	2010-08-13

	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)
241062 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50 0	<2 00
241066 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2 00
241072 - AH-3 0-1'					<50.0	<2.00
241075 - BG-Background 0-1'					<50.0	<2.00

Sample: 241062 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**10100**	mg/Kg	4 00

Sample: 241063 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**10500**	mg/Kg	4.00

Sample: 241064 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**9380**	mg/Kg	4.00

Sample: 241065 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**1300**	mg/Kg	4 00

Sample: 241066 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		**9970**	mg/Kg	4.00

Sample: 241067 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**4350**	mg/Kg	4.00

Sample: 241068 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**368**	mg/Kg	4.00

Sample: 241069 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**259**	mg/Kg	4.00

Sample: 241070 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**353**	mg/Kg	4.00

Sample: 241071 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**244**	mg/Kg	4.00

Sample: 241072 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**7520**	mg/Kg	4.00

Sample: 241073 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**4010**	mg/Kg	4.00

Sample: 241074 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**407**	mg/Kg	4.00

Sample: 241075 - BG-Background 0-1'

Param	Flag	Result	Units	RL
Chloride		**212**	mg/Kg	4.00

Sample: 241076 - BG-Background 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**317**	mg/Kg	4.00

Sample: 241077 - BG-Background 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**508**	mg/Kg	4.00

Sample: 241078 - BG-Background 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**328**	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. August 23, 2010

Work Order: 10081609

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number: 114-6400630

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
241062	AH-1 0-1'	soil	2010-08-10	00.00	2010-08-13
241063	AH-1 1-1 5'	soil	2010-08-10	00:00	2010-08-13
241064	AH-1 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241065	AH-1 3-3.5'	soil	2010-08-10	00.00	2010-08-13
241066	AH-2 0-1'	soil	2010-08-10	00:00	2010-08-13
241067	AH-2 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241068	AH-2 2-2 5'	soil	2010-08-10	00:00	2010-08-13
241069	AH-2 3-3.5'	soil	2010-08-10	00:00	2010-08-13
241070	AH-2 4-4.5'	soil	2010-08-10	00:00	2010-08-13
241071	AH-2 5-5.5'	soil	2010-08-10	00·00	2010-08-13

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241072	AH-3 0-1'	soil	2010-08-10	00:00	2010-08-13
241073	AH-3 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241074	AH-3 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241075	BG-Background 0-1'	soil	2010-08-10	00:00	2010-08-13
241076	BG-Background 1-1.5'	soil	2010-08-10	00:00	2010-08-13
241077	BG-Background 2-2.5'	soil	2010-08-10	00:00	2010-08-13
241078	BG-Background 3-3.5'	soil	2010-08-10	00:00	2010-08-13

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/Beech Fed. #2 TB were received by TraceAnalysis, Inc. on 2010-08-13 and assigned to work order 10081609. Samples for work order 10081609 were received intact at a temperature of 18.0 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	62330	2010-08-18 at 09:15	72769	2010-08-18 at 11:58
Chloride (Titration)	SM 4500-Cl B	62279	2010-08-16 at 10:08	72661	2010-08-16 at 16:26
Chloride (Titration)	SM 4500-Cl B	62280	2010-08-16 at 10:09	72662	2010-08-16 at 16:27
Chloride (Titration)	SM 4500-Cl B	62281	2010-08-16 at 10:09	72663	2010-08-16 at 16:28
TPH DRO - NEW	S 8015 D	62397	2010-08-19 at 10:46	72774	2010-08-19 at 10:46
TPH GRO	S 8015 D	62330	2010-08-18 at 09:15	72770	2010-08-18 at 12:25

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 10081609 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.

Samples received on ice.

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: 241062 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch.	72769	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation:	2010-08-18	Prepared By:	AG

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)		1.51	mg/Kg	1	2 00	76	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.41	mg/Kg	1	2.00	70	38.4 - 157

Sample: 241062 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch.	72661	Date Analyzed.	2010-08-16	Analyzed By:	AR
Prep Batch:	62279	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10100**	mg/Kg	100	4.00

Sample: 241062 - AH-1 0-1'

Laboratory·	Midland				
Analysis	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method.	N/A
QC Batch:	72774	Date Analyzed	2010-08-19	Analyzed By:	kg
Prep Batch:	62397	Sample Preparation:	2010-08-19	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		102	mg/Kg	1	100	102	70 - 130

Sample: 241062 - AH-1 0-1'

Laboratory:	Midland				
Analysis	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72770	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation:	2010-08-18	Prepared By:	AG

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)		1.72	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	1	2.00	77	42 - 159

Sample: 241063 - AH-1 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10500**	mg/Kg	100	4.00

Sample: 241064 - AH-1 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9380**	mg/Kg	100	4.00

Sample: 241065 - AH-1 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method.	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1300**	mg/Kg	100	4.00

Sample: 241066 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72769	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation.	2010-08-18	Prepared By:	AG

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)		1.41	mg/Kg	1	2.00	70	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.31	mg/Kg	1	2.00	66	38.4 - 157

Sample: 241066 - AH-2 0-1'

Laboratory	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By.	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9970**	mg/Kg	100	4.00

Sample: 241066 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72774	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch.	62397	Sample Preparation:	2010-08-19	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		104	mg/Kg	1	100	104	70 - 130

Sample: 241066 - AH-2 0-1'

Laboratory.	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72770	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation:	2010-08-18	Prepared By:	AG

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)		1 58	mg/Kg	1	2.00	79	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.40	mg/Kg	1	2.00	70	42 - 159

Sample: 241067 - AH-2 1-1.5'

Laboratory.	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4350**		mg/Kg	100	4.00

Sample: 241068 - AH-2 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**368**	mg/Kg	50	4.00

Sample: 241069 - AH-2 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**259**	mg/Kg	50	4.00

Sample: 241070 - AH-2 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch	72662	Date Analyzed:	2010-08-16	Analyzed By	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**353**	mg/Kg	50	4.00

Sample: 241071 - AH-2 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**244**	mg/Kg	50	4.00

Sample: 241072 - AH-3 0-1'

Laboratory	Midland				
Analysis	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method·	N/A
QC Batch·	72662	Date Analyzed:	2010-08-16	Analyzed By.	AR
Prep Batch:	62280	Sample Preparation:	2010-08-16	Prepared By.	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**7520**	mg/Kg	100	4.00

Sample: 241072 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72774	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62397	Sample Preparation:	2010-08-19	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		98.6	mg/Kg	1	100	99	70 - 130

Sample: 241072 - AH-3 0-1'

Laboratory·	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch·	72770	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation:	2010-08-18	Prepared By:	AG

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)		1 29	mg/Kg	1	2.00	64	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	1	2.00	58	42 - 159

Sample: 241073 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72663	Date Analyzed.	2010-08-16	Analyzed By:	AR
Prep Batch:	62281	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4010**		mg/Kg	100	4.00

Sample: 241074 - AH-3 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method.	N/A
QC Batch:	72663	Date Analyzed:	2010-08-16	Analyzed By	AR
Prep Batch:	62281	Sample Preparation·	2010-08-16	Prepared By·	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**407**		mg/Kg	50	4.00

Sample: 241075 - BG-Background 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72663	Date Analyzed:	2010-08-16	Analyzed By·	AR
Prep Batch:	62281	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**212**		mg/Kg	50	4.00

Sample: 241075 - BG-Background 0-1'

Laboratory·	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch·	72774	Date Analyzed:	2010-08-19	Analyzed By	kg
Prep Batch:	62397	Sample Preparation:	2010-08-19	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		79.9	mg/Kg	1	100	80	70 - 130

Sample: 241075 - BG-Background 0-1'

Laboratory.	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72770	Date Analyzed:	2010-08-18	Analyzed By:	AG
Prep Batch:	62330	Sample Preparation:	2010-08-18	Prepared By:	AG

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)		1.49	mg/Kg	1	2.00	74	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1 33	mg/Kg	1	2.00	66	42 - 159

Sample: 241076 - BG-Background 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72663	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62281	Sample Preparation:	2010-08-16	Prepared By.	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**317**	mg/Kg	50	4.00

Sample: 241077 - BG-Background 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method·	N/A
QC Batch.	72663	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch.	62281	Sample Preparation:	2010-08-16	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**508**	mg/Kg	50	4.00

Sample: 241078 - BG-Background 3-3.5'

Laboratory:	Midland				
Analysis.	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch.	72663	Date Analyzed.	2010-08-16	Analyzed By:	AR
Prep Batch:	62281	Sample Preparation:	2010-08-16	Prepared By	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**328**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 72661

QC Batch:	72661	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62279	QC Preparation:	2010-08-16	Prepared By:	AR

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

Method Blank (1) QC Batch: 72662

QC Batch.	72662	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62280	QC Preparation:	2010-08-16	Prepared By.	AR

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

Method Blank (1) QC Batch: 72663

QC Batch:	72663	Date Analyzed:	2010-08-16	Analyzed By:	AR
Prep Batch:	62281	QC Preparation:	2010-08-16	Prepared By:	AR

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

Method Blank (1) QC Batch: 72769

QC Batch: 72769 | Date Analyzed: 2010-08-18 | Analyzed By: AG
Prep Batch. 62330 | QC Preparation: 2010-08-18 | Prepared By: AG

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)		1.78	mg/Kg	1	2.00	89	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	55.4 - 132

Method Blank (1) QC Batch: 72770

QC Batch: 72770 | Date Analyzed: 2010-08-18 | Analyzed By: AG
Prep Batch: 62330 | QC Preparation: 2010-08-18 | Prepared By: AG

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)		1.99	mg/Kg	1	2.00	100	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.60	mg/Kg	1	2.00	80	52 4 - 130

Method Blank (1) QC Batch: 72774

QC Batch· 72774 | Date Analyzed: 2010-08-19 | Analyzed By. kg
Prep Batch: 62397 | QC Preparation: 2010-08-19 | Prepared By. kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	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

Laboratory Control Spike (LCS-1)

QC Batch: 72661 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62279 | QC Preparation: 2010-08-16 | Prepared By AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
Chloride	97.6	mg/Kg	1	100	<2.18	98	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	4	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: 72662 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62280 | QC Preparation: 2010-08-16 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.1	mg/Kg	1	100	<2 18	98	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	4	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: 72663 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62281 | QC Preparation: 2010-08-16 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.0	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 72769 | Date Analyzed 2010-08-18 | Analyzed By: AG
Prep Batch: 62330 | QC Preparation. 2010-08-18 | Prepared By. AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.96	mg/Kg	1	2.00	<0.0150	98	81.9 - 108
Toluene	1.89	mg/Kg	1	2.00	<0.00950	94	81.9 - 107
Ethylbenzene	1.76	mg/Kg	1	2.00	<0.0106	88	78.4 - 107
Xylene	5.34	mg/Kg	1	6.00	<0.00930	89	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	1.97	mg/Kg	1	2.00	<0.0150	98	81.9 - 108	0	20
Toluene	1.91	mg/Kg	1	2.00	<0.00950	96	81.9 - 107	1	20
Ethylbenzene	1.77	mg/Kg	1	2.00	<0.0106	88	78.4 - 107	1	20
Xylene	5.38	mg/Kg	1	6.00	<0.00930	90	79.1 - 107	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.76	1.73	mg/Kg	1	2.00	88	86	70 2 - 114
4-Bromofluorobenzene (4-BFB)	1.65	1.64	mg/Kg	1	2.00	82	82	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 72770 | Date Analyzed: 2010-08-18 | Analyzed By: AG
Prep Batch: 62330 | QC Preparation: 2010-08-18 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
GRO	15.2	mg/Kg	1	20.0	<1.65	76	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	14.4	mg/Kg	1	20.0	<1.65	72	69 9 - 95.4	5	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)	2.00	1.64	mg/Kg	1	2 00	100	82	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.78	1.59	mg/Kg	1	2.00	89	80	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72774 | Date Analyzed: 2010-08-19 | Analyzed By: kg
Prep Batch: 62397 | QC Preparation· 2010-08-19 | Prepared By. kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	204	mg/Kg	1	250	<14 5	82	57.4 - 133.4

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
DRO	215	mg/Kg	1	250	<14.5	86	57.4 - 133.4	5	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	116	103	mg/Kg	1	100	116	103	70 - 130

Matrix Spike (MS-1) Spiked Sample. 241062

QC Batch: 72661 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62279 | QC Preparation: 2010-08-16 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	19500	mg/Kg	100	10000	10100	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	20200	mg/Kg	100	10000	10100	101	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: 241072

QC Batch· 72662 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62280 | QC Preparation: 2010-08-16 | Prepared By. AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	18200	mg/Kg	100	10000	7520	107	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	18800	mg/Kg	100	10000	7520	113	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: 241120

QC Batch: 72663 | Date Analyzed: 2010-08-16 | Analyzed By: AR
Prep Batch: 62281 | QC Preparation: 2010-08-16 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	<218	103	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: 241219

QC Batch: 72769 | Date Analyzed: 2010-08-18 | Analyzed By: AG
Prep Batch: 62330 | QC Preparation: 2010-08-18 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.15	mg/Kg	1	2.00	<0.0150	108	80.5 - 112
Toluene	2.13	mg/Kg	1	2.00	<0.00950	106	82.4 - 113
Ethylbenzene	2.15	mg/Kg	1	2.00	<0.0106	108	83.9 - 114
Xylene	6.47	mg/Kg	1	6.00	<0.00930	108	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	[1]	1.52	mg/Kg	1	2.00	<0.0150	76	80.5 - 112	34	20
Toluene	[2]	1.50	mg/Kg	1	2.00	<0.00950	75	82.4 - 113	35	20
Ethylbenzene	[3]	1.51	mg/Kg	1	2.00	<0.0106	76	83.9 - 114	35	20
Xylene	[4]	4.57	mg/Kg	1	6.00	<0.00930	76	84 - 114	34	20

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

[1] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3] Matrix spike recovery out of control limits due to peak interference Use LCS/LCSD to demonstrate analysis is under control
[4] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.74	1.18	mg/Kg	1	2	87	59	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.67	1.14	mg/Kg	1	2	84	57	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 241299

QC Batch: 72770 | Date Analyzed: 2010-08-18 | Analyzed By: AG
Prep Batch: 62330 | QC Preparation: 2010-08-18 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.6	mg/Kg	1	20.0	<1.65	73	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	15.7	mg/Kg	1	20.0	<1.65	78	61.8 - 114	7	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)	1.12	1.23	mg/Kg	1	2	56	62	50 - 162
4-Bromofluorobenzene (4-BFB)	1.16	1.27	mg/Kg	1	2	58	64	50 - 162

Matrix Spike (MS-1) Spiked Sample: 241291

QC Batch: 72774 | Date Analyzed: 2010-08-19 | Analyzed By: kg
Prep Batch: 62397 | QC Preparation: 2010-08-19 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	220	mg/Kg	1	250	<14.5	88	35.2 - 167.1

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	228	mg/Kg	1	250	<14.5	91	35.2 - 167.1	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
n-Tricosane	107	106	mg/Kg	1	100	107	106	70 - 130

Standard (ICV-1)

QC Batch. 72661 | Date Analyzed. 2010-08-16 | 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	2010-08-16

Standard (CCV-1)

QC Batch: 72661 | Date Analyzed: 2010-08-16 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.8	99	85 - 115	2010-08-16

Standard (ICV-1)

QC Batch: 72662 | Date Analyzed. 2010-08-16 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-16

Standard (CCV-1)

QC Batch: 72662 | Date Analyzed: 2010-08-16 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-16

Standard (ICV-1)

QC Batch: 72663 | Date Analyzed: 2010-08-16 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-16

Standard (CCV-1)

QC Batch: 72663 | Date Analyzed: 2010-08-16 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.0	98	85 - 115	2010-08-16

Standard (CCV-1)

QC Batch: 72769 | Date Analyzed: 2010-08-18 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0958	96	80 - 120	2010-08-18
Toluene		mg/Kg	0.100	0.0921	92	80 - 120	2010-08-18
Ethylbenzene		mg/Kg	0.100	0.0853	85	80 - 120	2010-08-18
Xylene		mg/Kg	0.300	0.260	87	80 - 120	2010-08-18

Standard (CCV-2)

QC Batch 72769 | Date Analyzed. 2010-08-18 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0980	98	80 - 120	2010-08-18
Toluene		mg/Kg	0.100	0.0947	95	80 - 120	2010-08-18
Ethylbenzene		mg/Kg	0.100	0.0888	89	80 - 120	2010-08-18
Xylene		mg/Kg	0.300	0.266	89	80 - 120	2010-08-18

Standard (CCV-1)

QC Batch: 72770 | Date Analyzed: 2010-08-18 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.972	97	80 - 120	2010-08-18

Standard (CCV-2)

QC Batch: 72770 | Date Analyzed: 2010-08-18 | Analyzed By: AG

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	2010-08-18

Standard (CCV-1)

QC Batch: 72774 Date Analyzed: 2010-08-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	215	86	80 - 120	2010-08-19

Standard (CCV-2)

QC Batch: 72774 Date Analyzed: 2010-08-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	233	93	80 - 120	2010-08-19

WO#: 16081609

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 2

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.: 114-6400630

PROJECT NAME: COG / Beech Fed #2TB 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	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
241062	8/10		S		X	AH-1 0-1'	1				X		X	X											X				
063						AH-1 1-1.5'																							
064						AH-1 2-2.5'																							
065						AH-1 3-3.5'																							
066						AH-2 0-1'							X	X															
067						AH-2 1-1.5'																							
068						AH-2 2-2.5'																							
069						AH-2 3-3.5'																							
070						AH-2 4-4.5'																							
071	↓		↓		↓	AH-2 5'-5.5'	↓				↓														↓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Rita Hernandez	Date: 8-12-10 Time: 1540	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) Robert Gubbs Jr Date: 8-10-10 Time: 1730

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

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: Nanelo PHONE:

RECEIVED BY: (Signature)
DATE: 8.13.10 TIME: 15:45

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 18.0°C Wet

REMARKS: IF total TPH exceeds 5000 mg/kg Run deeper Samples
If BTEX exceed 50 mg/kg or Benzene exceeds 10 mg/kg Run deeper Samples

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

Run 2 highest TPH for BTEX

WO #: 10081609

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 2

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.: 114-6400630

PROJECT NAME: COG/Breech Fed #2 J13 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	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
241072	8/10		S		X	AH-3	0-1'	1				X		X	X										X				
073						AH-3	1-1.5'																						
074						AH-3	2-2.5'																						
075						BG AH- Background	0-1'							X	X														
076						BG AH- Background	1-1.5'																						
077						BG AH- Background	2-2.5'																						
078	↓		↓		↓	BG AH- Background	3-3.5'	↓				↓													↓				

RELINQUISHED BY: (Signature) Date: 8-13-10 Time: 1540 — RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Robert Lawless JL Date: 8-10-10 Time: 17:50

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: Xenco PHONE:
RECEIVED BY: (Signature)
DATE: 8-13-10 TIME: 15:45

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 18.0° C

REMARKS: If Total TPH exceeds 5000 mg/kg run deeper Sample.
If BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg Run deeper Sample
Run highest TPH for BTEX

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 23, 2010

Work Order: 10111929

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number: 114-6400630

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
251022	CS-1 0-1 (2' BEB)	soil	2010-11-10	00:00	2010-11-19
251023	CS-2 0-1 (2' BEB)	soil	2010-11-10	00:00	2010-11-19
251024	CS-3 0-1 (3' BEB)	soil	2010-11-10	00:00	2010-11-19
251025	T-1 4' bottom hole	soil	2010-11-10	00:00	2010-11-19
251026	T-1 6'	soil	2010-11-10	00:00	2010-11-19
251027	T-1 8'	soil	2010-11-10	00:00	2010-11-19
251028	T-1 10'	soil	2010-11-10	00:00	2010-11-19

Sample: 251022 - CS-1 0-1 (2' BEB)

Param	Flag	Result	Units	RL
Chloride		**368**	mg/Kg	4.00

Sample: 251023 - CS-2 0-1 (2' BEB)

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

Sample: 251024 - CS-3 0-1 (3' BEB)

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

Sample: 251025 - T-1 4' bottom hole

Param	Flag	Result	Units	RL
Chloride		**1700**	mg/Kg	4.00

Sample: 251026 - T-1 6'

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

Sample: 251027 - T-1 8'

Param	Flag	Result	Units	RL
Chloride		**3660**	mg/Kg	4.00

Sample: 251028 - T-1 10'

Param	Flag	Result	Units	RL
Chloride		**730**	mg/Kg	4.00

TRACEANALYSIS, INC.

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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

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: November 23, 2010

Work Order: 10111929

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number: 114-6400630

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
251022	CS-1 0-1 (2' BEB)	soil	2010-11-10	00:00	2010-11-19
251023	CS-2 0-1 (2' BEB)	soil	2010-11-10	00:00	2010-11-19
251024	CS-3 0-1 (3' BEB)	soil	2010-11-10	00:00	2010-11-19
251025	T-1 4' bottom hole	soil	2010-11-10	00:00	2010-11-19
251026	T-1 6'	soil	2010-11-10	00.00	2010-11-19
251027	T-1 8'	soil	2010-11-10	00:00	2010-11-19
251028	T-1 10'	soil	2010-11-10	00:00	2010-11-19

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/Beech Fed. #2 TB were received by TraceAnalysis, Inc. on 2010-11-19 and assigned to work order 10111929. Samples for work order 10111929 were received intact at a temperature of 3 2 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	64825	2010-11-22 at 09:23	75586	2010-11-23 at 09:16
Chloride (Titration)	SM 4500-Cl B	64825	2010-11-22 at 09:23	75587	2010-11-23 at 09:17

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 10111929 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: 251022 - CS-1 0-1 (2' BEB)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75586	Date Analyzed:	2010-11-23	Analyzed By:	AR
Prep Batch:	64825	Sample Preparation:	2010-11-22	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**368**	mg/Kg	50	4.00

Sample: 251023 - CS-2 0-1 (2' BEB)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75587	Date Analyzed:	2010-11-23	Analyzed By:	AR
Prep Batch:	64825	Sample Preparation:	2010-11-22	Prepared By:	AR

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

Sample: 251024 - CS-3 0-1 (3' BEB)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75587	Date Analyzed	2010-11-23	Analyzed By:	AR
Prep Batch:	64825	Sample Preparation:	2010-11-22	Prepared By:	AR

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

Sample: 251025 - T-1 4' bottom hole

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75587	Date Analyzed:	2010-11-23	Analyzed By:	AR
Prep Batch:	64825	Sample Preparation:	2010-11-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1700**		mg/Kg	100	4.00

Sample: 251026 - T-1 6'

Laboratory.	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch	75587	Date Analyzed.	2010-11-23	Analyzed By:	AR
Prep Batch.	64825	Sample Preparation.	2010-11-22	Prepared By:	AR

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

Sample: 251027 - T-1 8'

Laboratory.	Midland				
Analysis:	Chloride (Titration)	Analytical Method.	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75587	Date Analyzed:	2010-11-23	Analyzed By.	AR
Prep Batch.	64825	Sample Preparation:	2010-11-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3660**		mg/Kg	100	4.00

Sample: 251028 - T-1 10'

Laboratory.	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method.	N/A
QC Batch.	75587	Date Analyzed.	2010-11-23	Analyzed By:	AR
Prep Batch:	64825	Sample Preparation.	2010-11-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**730**		mg/Kg	50	4.00

Method Blank (1) QC Batch: 75586

QC Batch.	75586	Date Analyzed	2010-11-23	Analyzed By:	AR
Prep Batch.	64825	QC Preparation.	2010-11-22	Prepared By:	AR

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

Method Blank (1) QC Batch: 75587

QC Batch: 75587 Date Analyzed: 2010-11-23 Analyzed By: AR
Prep Batch: 64825 QC Preparation: 2010-11-22 Prepared By. AR

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

Laboratory Control Spike (LCS-1)

QC Batch. 75586 Date Analyzed· 2010-11-23 Analyzed By: AR
Prep Batch. 64825 QC Preparation: 2010-11-22 Prepared By. AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.6	mg/Kg	1	100	<2 18	98	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	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: 75587 Date Analyzed: 2010-11-23 Analyzed By· AR
Prep Batch 64825 QC Preparation: 2010-11-22 Prepared By AR

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.4	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	7	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: 251022

QC Batch: 75586 | Date Analyzed: 2010-11-23 | Analyzed By: AR
Prep Batch: 64825 | QC Preparation: 2010-11-22 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10400	mg/Kg	100	10000	368	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10700	mg/Kg	100	10000	368	103	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: 251028

QC Batch: 75587 | Date Analyzed: 2010-11-23 | Analyzed By: AR
Prep Batch: 64825 | QC Preparation: 2010-11-22 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10500	mg/Kg	100	10000	730	98	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	10800	mg/Kg	100	10000	730	101	85 - 115	3	20

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

Standard (ICV-1)

QC Batch: 75586 | Date Analyzed: 2010-11-23 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-11-23

Standard (CCV-1)

QC Batch: 75586 | Date Analyzed: 2010-11-23 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-11-23

Standard (ICV-1)

QC Batch: 75587 Date Analyzed: 2010-11-23 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2010-11-23

Standard (CCV-1)

QC Batch: 75587 Date Analyzed: 2010-11-23 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	2010-11-23

AWO #: 10111928

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: 1

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400L30

PROJECT NAME: COG / Booth Fed #2 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	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
257022	11/10		S		X	CS-1 0-1 (2' BEB)	1				X													X				
023						CS-2 0-1 (2' BEB)																		X				
024						CS-3 0-1 (3' BEB)																		X				
025						T-1 4' bottom hole																		X				
026						T-1 6'																		X				
027						T-1 8'																		X				
028						T-1 10'																		X				
029	▼		▼		▼	T-1 12'	▼				▼					Hold												

RELINQUISHED BY: (Signature) Date: 11-19-10 Time: 12 PM

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) JT Date: 11/10/10 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: 11-19-10 TIME: 11:50

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized. Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.2°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.

Summary Report

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

Report Date: December 2, 2010

Work Order: 10111929

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number: 114-6400630

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
251029	T-1 12'	soil	2010-11-10	00:00	2010-11-19

Sample: 251029 - T-1 12'

Param	Flag	Result	Units	RL
Chloride		**445**	mg/Kg	4.00

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

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 2, 2010

Work Order: 10111929

Project Location: Eddy County, NM
Project Name: COG/Beech Fed. #2 TB
Project Number. 114-6400630

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
251029	T-1 12'	soil	2010-11-10	00.00	2010-11-19

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/Beech Fed #2 TB were received by TraceAnalysis, Inc. on 2010-11-19 and assigned to work order 10111929. Samples for work order 10111929 were received intact at a temperature of 3.2 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	64930	2010-11-29 at 12:55	75719	2010-11-30 at 13:15

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10111929 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: 251029 - T-1 12'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75719	Date Analyzed:	2010-11-30	Analyzed By:	AR
Prep Batch:	64930	Sample Preparation:	2010-11-29	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**445**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 75719

QC Batch:	75719	Date Analyzed:	2010-11-30	Analyzed By:	AR
Prep Batch:	64930	QC Preparation:	2010-11-29	Prepared By:	AR

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

Laboratory Control Spike (LCS-1)

QC Batch:	75719	Date Analyzed:	2010-11-30	Analyzed By:	AR
Prep Batch:	64930	QC Preparation:	2010-11-29	Prepared By:	AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.6	mg/Kg	1	100	<2.18	98	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	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: 251213

QC Batch:	75719	Date Analyzed:	2010-11-30	Analyzed By:	AR
Prep Batch:	64930	QC Preparation:	2010-11-29	Prepared By:	AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10300	mg/Kg	100	10000	<218	101	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 75719 Date Analyzed. 2010-11-30 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2010-11-30

Standard (CCV-1)

QC Batch. 75719 Date Analyzed· 2010-11-30 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	2010-11-30

AWO #: 10111928

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

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-G4000L30
PROJECT NAME: COG / Birch Fed #2 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
251022	11/10		S		X	CS-1 0-1 (2' BEB)	1				X	
023						CS-2 0-1 (2' BEB)						
024						CS-3 0-1 (3' BEB)						
025						T-1 4' bottom hole						
026						T-1 6'						
027						T-1 8'						
028						T-1 10'						
029						T-1 12'						

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 Anions/Cations, pH, TDS
			Hold									X				

RELINQUISHED BY: (Signature) Date: 11-10-10 Time: 1250
RECEIVED BY: (Signature) Date: Time:
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) JT Date: 11/10/10 Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:
TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trax
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 11-19-10 TIME: 11:50

SAMPLE CONDITION WHEN RECEIVED: 3.1°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.