SITE INFORMATION

Report Type: Closure Report

General Site Information:						
Site:	Jenkins Federal B #12					
Company:	COG Operating LLC					
Section, Township and Range	20	17S	30E			
Lease Number:	API-30-015-31559					
County:	Eddy County					
GPS:	32.821007° N			103.99520° W		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From the intersection of Co. Rd. 217 and Hwy 82 travel west on Hwy 82 for 0.4 miles, turn right onto lease rd. and travel 400', turn left and travel 100' to well.					

Release Data:	
Date Released:	8/1/2010
Type Release:	Produced Water
Source of Contamination:	1/2" nipple on wellhead
Fluid Released:	35 bbls
Fluids Recovered:	20 bbls

Official Communication:			
Name:	Pat Ellis		Ike Tavarez
Company:	COG Operating, LLC		Tetra Tech
Address:	550 W. Texas Ave. Ste. 1300		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		432-682-4559
Fax:	(432) 684-7137		
Email:	pellis@conchoresources.com		ike.tavarez@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

TETRA TECH

May 18, 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., Jenkins Federal B #12 Well Site, Unit F, Section 20, Township 17 South, Range 30 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Jenkins Federal B #12 Well Site located in Unit F, Section 20, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.821007°, W 103.99520°. 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 August 1, 2010. Approximately thirty-five (35) barrels of produced water was released when a ½" nipple on the wellhead failed. To alleviate the problem, COG personnel replaced all fittings with stainless steel. Twenty (20) barrels of standing fluids were recovered.

The spill initiated at the wellhead and migrated west on the pad and northwest off the well pad. The west spill area measured approximately 160' long, with a width of 30' to 100'. The north spill area on the pad measured approximately 30' x 80' and the impact off the pad in the pasture measured approximately 90' x 120'. The majority of the impact in the pasture appeared to be overspray. COG immediately scraped the pad and the saturated soil in the pasture. The initial C-141 form is enclosed in Appendix A.

Tetra Tech
1910 North Big Spring. Midland,TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

Groundwater

No water wells were listed within Section 20. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 200' below surface. The groundwater map is shown in Appendix B.

Regulatory

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

Soil Assessment and Analytical Results

On September 2, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of eleven (11) auger holes (AH-1 through AH-11) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. The chloride concentrations were not vertically defined in the areas of AH-1, AH-2, AH-3, AH-4 and AH-8. The remaining auger holes were defined and showed a shallow impact to the soils.

On February 2, 2010, Tetra Tech personnel supervised the installation of soil borings (SB-1 through SB-5) utilizing an air rotary drilling rig. The soil boring locations are shown in Figure 3. The soil borings were extended to depths from 20' to 60' below surface, with samples collected at 2 to 3 foot intervals for the first 10 feet, 5 foot intervals to 30' and 10 foot intervals

thereafter and submitted to the laboratory for chloride analysis. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1.

Referring to Table 1, all of the soil borings installed were vertically defined. Soil boring (SB-1, SB-2 and SB-3) did show a shallow impact to the soil to a depth of 1' to 5' below surface. The deepest impact was found in the area of SB-5, with elevated chloride concentrations greater than 5,000 extending down to 7' and declining to 1,730 mg/kg at 15' below surface. Chloride concentrations of 1,500 mg/kg and 2,070 mg/kg were detected at 25' and 40', respectively. These deeper samples appear to be cross-contamination from the upper sand, which was collapsing into the soil boring.

Remedial Work and Closure Request

Tetra Tech personnel supervised the excavation of the site from March 11 through March 16, 2011. The excavation areas and depths are highlighted in Table 1 and Figure 5. The final depths of the soil remediation for the entire spill were met or exceeded the depths of the approved NMOCD work plan. The excavation area of AH-8 (SB-5) measured approximately 15' x 75' at a depth of 10' below surface and capped with a liner (40 mil) at 4' below surface. In addition, confirmation samples were requested by the BLM were collected from the excavation bottoms. The sample results are summarized in Table 2. The sample locations are shown in Figure 5.

Once excavated, the site was backfilled with clean material. Approximately 2,460 yards^3 were removed and hauled to CRI Inc. for proper disposal. Photos of the excavation are attached.

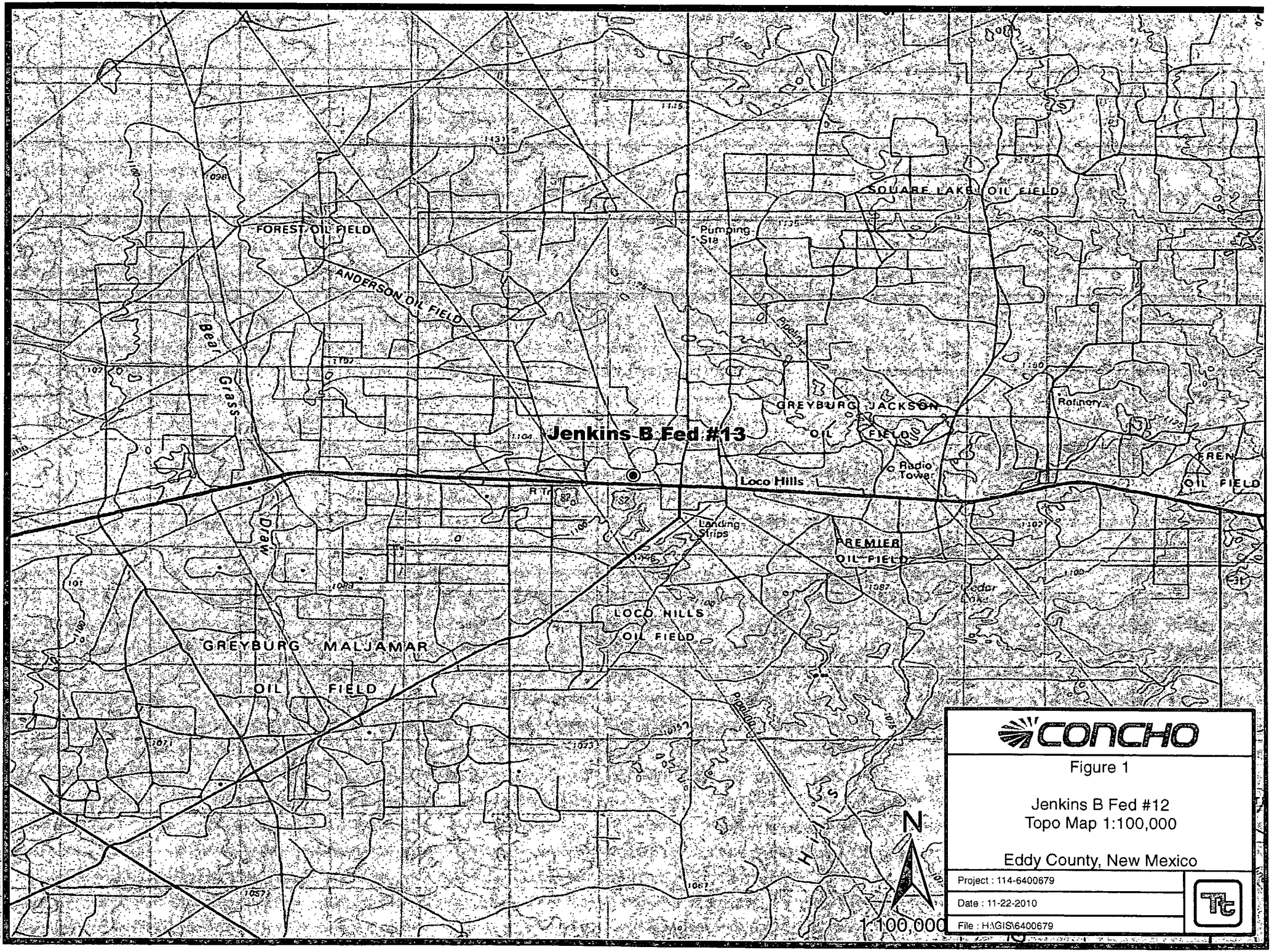
Based on the remedial activities performed at this site, COG requests closure of this site. A copy of the C-141 (Final) is included in Appendix A. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez
Project Manager

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

FIGURES



CONCHO

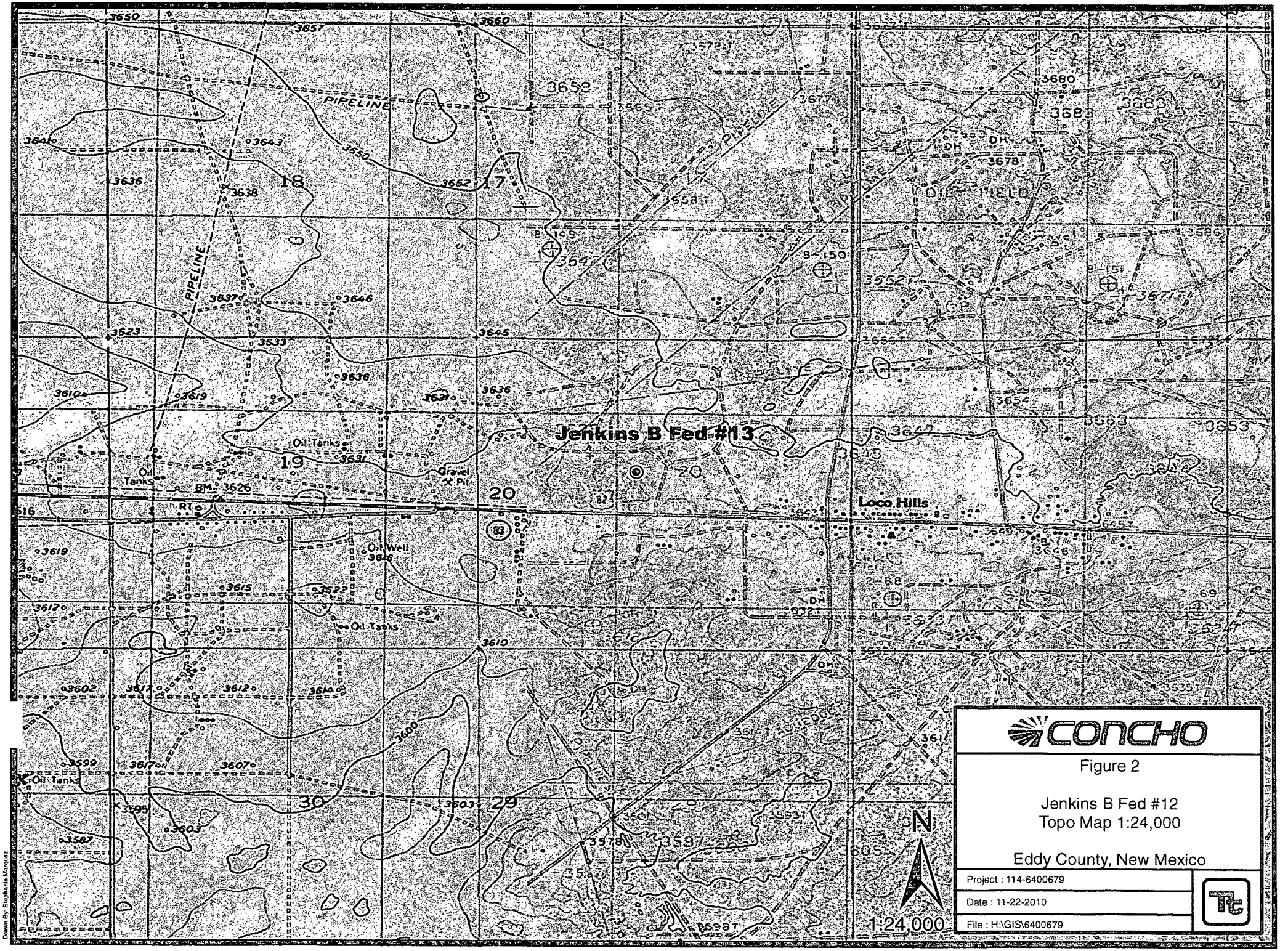
Figure 1

Jenkins B Fed #12
Topo Map 1:100,000

Eddy County, New Mexico

Project : 114-6400679	
Date : 11-22-2010	
File : H:\GIS\6400679	

Drawn By: Stephanie Marquez



CONCHO

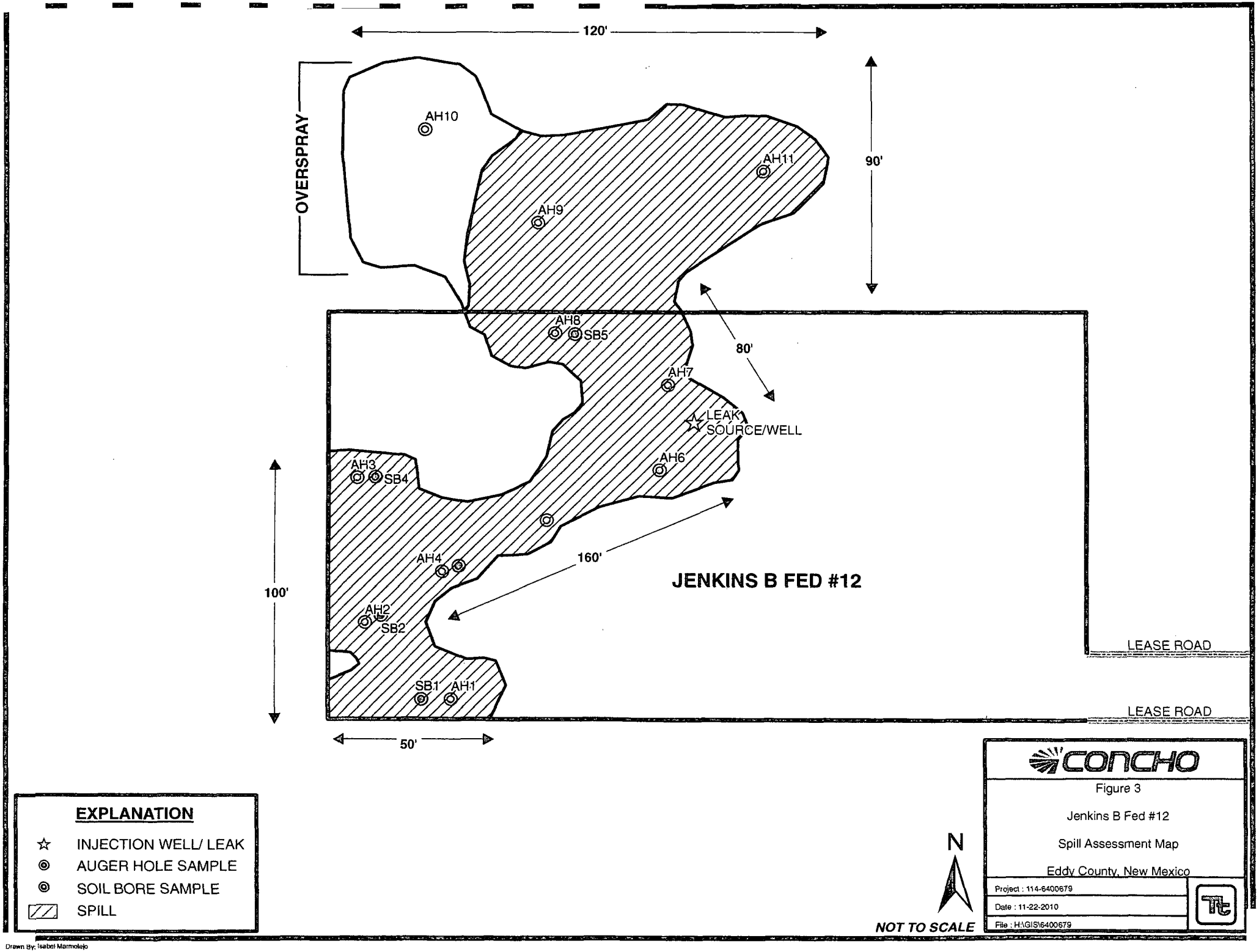
Figure 2

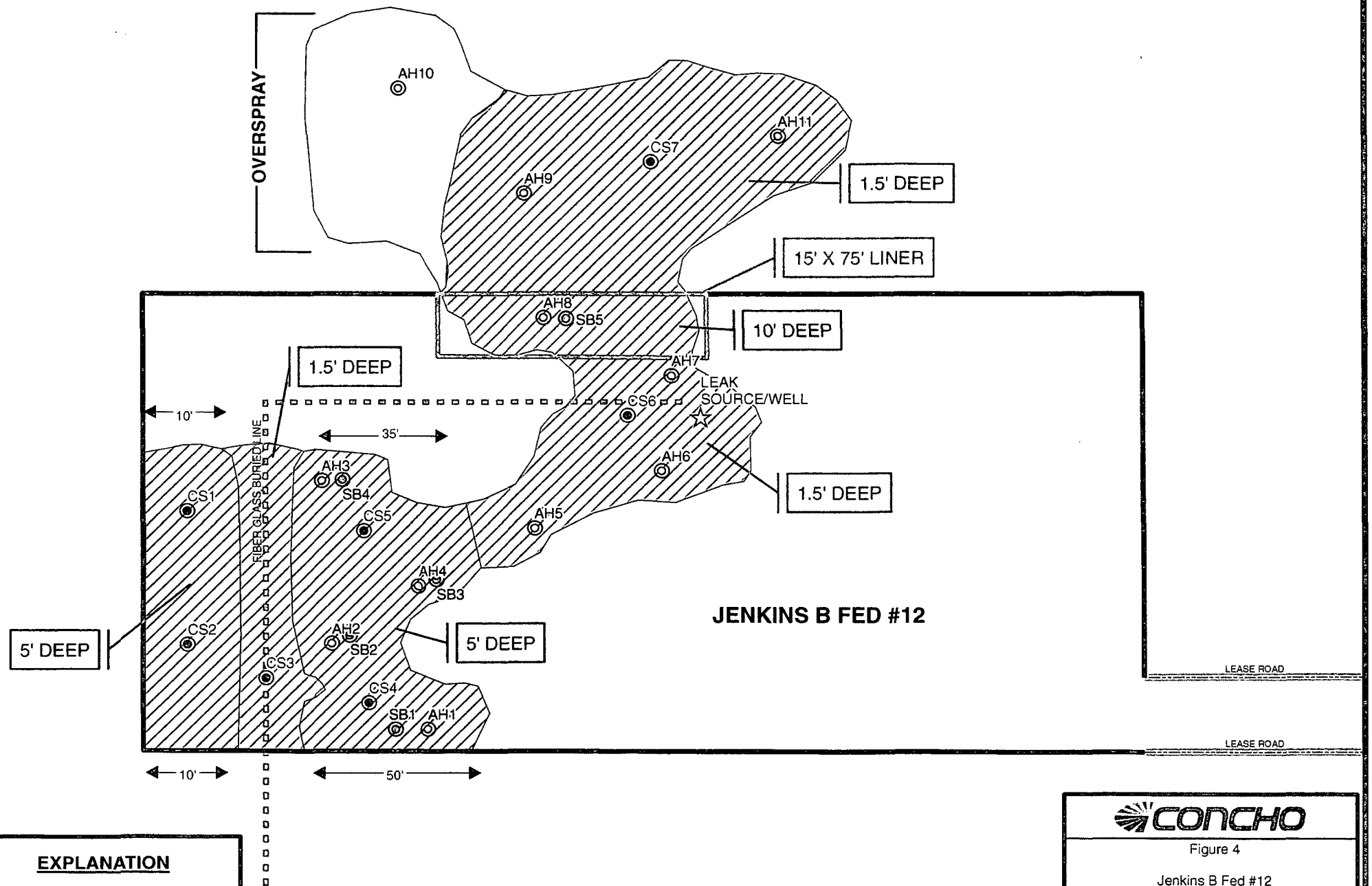
Jenkins B Fed #12
Topo Map 1:24,000

Eddy County, New Mexico

Project : 114-6400679	
Date : 11-22-2010	
File : H:\GIS\6400679	

Drawn By: Stephanie Marquez


120'
90'
OVERSPRAY
AH10
AH11
AH9
AH8
SB5
80'
AH7
LEAK
SOURCE/WELL
AH6
AH3
SB4
160'
100'
AH4
JENKINS B FED #12
AH2
SB2
LEASE ROAD
SB1
AH1
LEASE ROAD
50'
EXPLANATION
INJECTION WELL/ LEAK
AUGER HOLE SAMPLE
SOIL BORE SAMPLE
SPILL
N
NOT TO SCALE
CONCHO
Figure 3
Jenkins B Fed #12
Spill Assessment Map
Eddy County, New Mexico
Project : 114-6400679
Date : 11-22-2010
File : H:\GIS\6400679
Drawn By: Isabel Marmolejo



EXPLANATION

- ☆ INJECTION WELL/ LEAK
- ◎ AUGER HOLE SAMPLE
- ◉ CONFIRMATION SAMPLE
- ◎ SOIL BORE SAMPLE
- ▨ SPILL

N

NOT TO SCALE

CONCHO

Figure 4

Jenkins B Fed #12

Excavation Depths

Eddy County, New Mexico

Project : 114-6400679

Date : 11-22-2010

File : H:\GIS\6400679

Drawn By: Isabel Marmolejo

TABLES

Table 1
COG Operating LLC.
JENKINS FEDERAL B #12
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	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	3,710
	"	1-1.5'			X	-	-	-	-	-	-	-	12,300
	"	1.5-2'			X	-	-	-	-	-	-	-	7,640
SB-1	2/2/2010	0-1'			X	-	-	-					10,000
	"	3'			X	-	-	-					4,730
	"	5'			X	-	-	-					4,390
	"	7'		X		-	-	-					<200
	"	10'		X		-	-	-					<200
	"	15'		X		-	-	-					<200
	"	20'		X		-	-	-					<200
AH-2	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	14,100
	"	1-1.5'			X	-	-	-	-	-	-	-	13,400
SB-2	12/2/2010	0-1'			X	-	-	-					<200
	"	3'			X	-	-	-					<200
	"	5'			X	-	-	-					743
	"	7'		X		-	-	-					<200
	"	10'		X		-	-	-					<200
	"	15'		X		-	-	-					<200
	"	20'		X		-	-	-					<200

Table 1
COG Operating LLC.
JENKINS FEDERAL B #12
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	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	-	-	-	-	12,300
	"	1-1.5'			X	-	-	-	-	-	-	-	3,300
	"	1.5'-2'			X	-	-	-	-	-	-	-	3,930
SB-4	12/2/2010	0-1'			X	-	-	-					7,950
	"	3'			X	-	-	-					3,040
	"	5'			X	-	-	-					<200
	"	7'		X		-	-	-					261
	"	10'		X		-	-	-					<200
	"	15'		X		-	-	-					<200
	"	20'		X		-	-	-					<200
AH-4	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	12,300
	"	1-1.5'			X	-	-	-	-	-	-	-	867
	"	2-2.5'			X	-	-	-	-	-	-	-	2,760
	"	2.5'-3'			X	-	-	-	-	-	-	-	3,100
SB-3	12/2/2010	0-1'			X	-	-	-					8,730
	"	3'			X	-	-	-					11,400
	"	5'			X	-	-	-					876
	"	7'		X		-	-	-					1,170
	"	10'		X		-	-	-					456
	"	15'		X		-	-	-					<200
	"	20'		X		-	-	-					<200

Table 1
COG Operating LLC.
JENKINS FEDERAL B #12
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	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	11,300
	"	1-1.5'			X	-	-	-	-	-	-	-	1,130
	"	2-2.5'		X		-	-	-	-	-	-	-	675
	"	3-3.5'		X		-	-	-	-	-	-	-	227
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-6	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	-	-	-	-	2,870
	"	1-1.5'			X	-	-	-	-	-	-	-	594
	"	2-2.5'		X		-	-	-	-	-	-	-	368
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	262
AH-7	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	-	-	-	-	3,590
	"	1-1.5'			X	-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
JENKINS FEDERAL B #12
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-8	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	10,000
	"	1-1.5'			X	-	-	-	-	-	-	-	1,840
	"	2-2.5'			X	-	-	-	-	-	-	-	912
	"	3-3.5'			X	-	-	-	-	-	-	-	701
	"	4-4.5'			X	-	-	-	-	-	-	-	4,280
	"	4.5'-5'			X	-	-	-	-	-	-	-	6,850
SB-5	12/2/2010	0-1'			X	-	-	-					19,700
	"	3'			X	-	-	-					8,640
	"	5'			X	-	-	-					1,830
	"	7'			X	-	-	-					8,590
	"	15'		X		-	-	-					1,730
	"	20'		X		-	-	-					850
	"	25'		X		-	-	-					1,500
	"	30'		X		-	-	-					352
	"	40'		X		-	-	-					2,070
	"	50'		X		-	-	-					394
	"	60'		X		-	-	-					<200

Table 1
COG Operating LLC.
JENKINS FEDERAL B #12
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-9	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	-	-	-	-	1,260
	"	1-1.5'			X	-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-10	9/2/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	293
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
AH-11	9/2/2010	0-1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	2,660
	"	1-1.5'			X	-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200

Installed 40 mil Liner

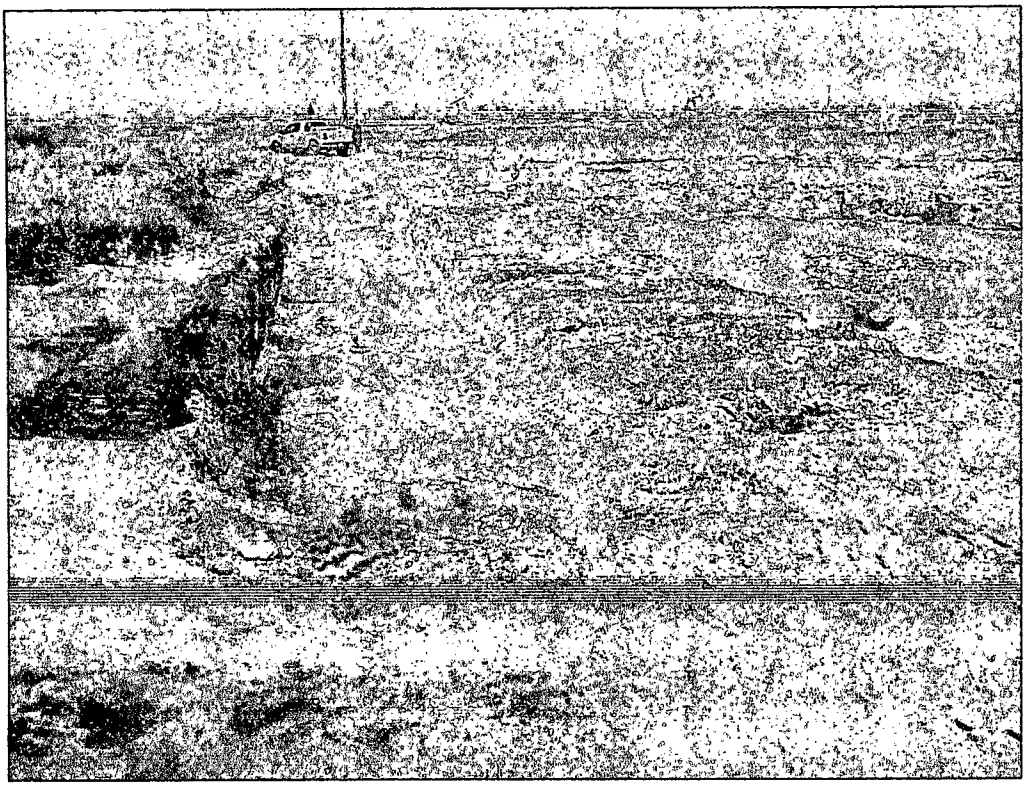
(--) Not Analyzed

Excavation Depths

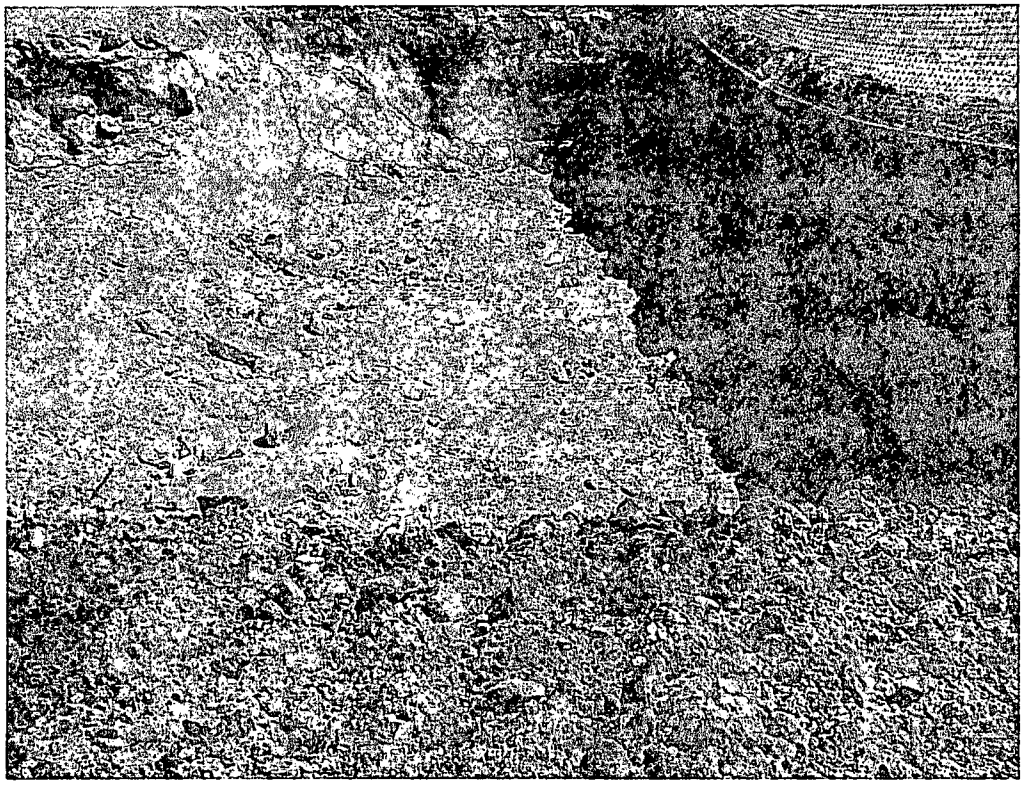
PHOTOGRAPHS

COG Operating LLC
Jenkins B Federal #12
Eddy County, New Mexico

TETRA TECH



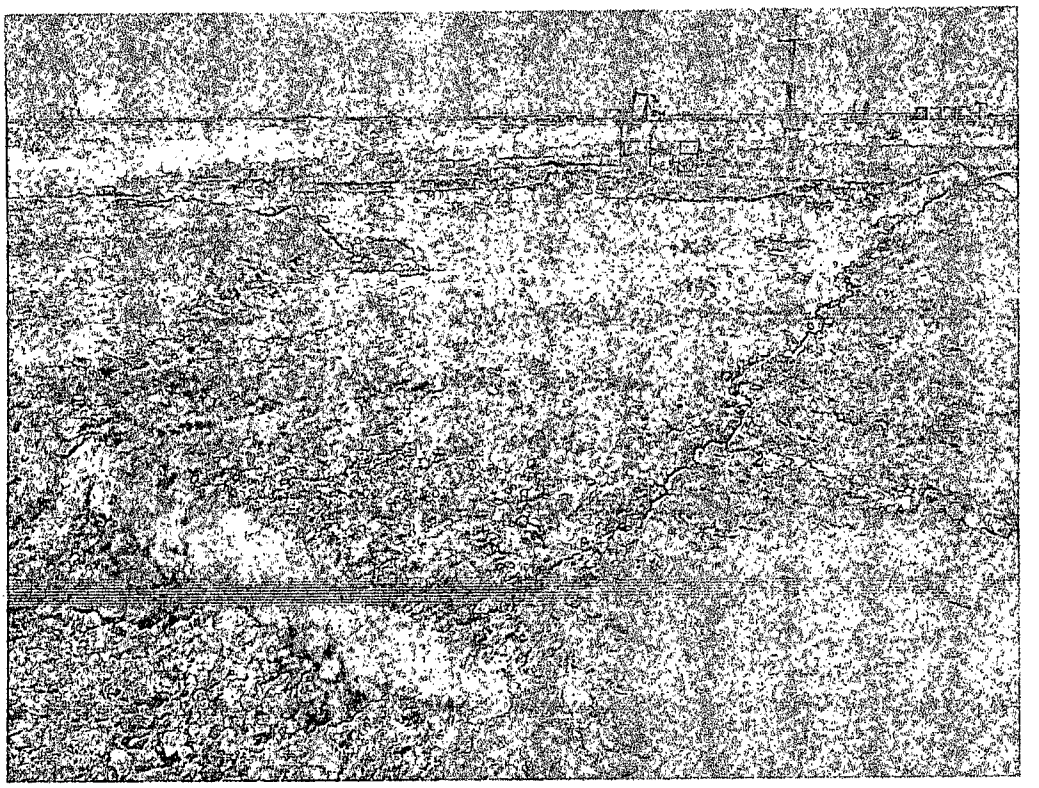
View North – CS-1,2,3,5



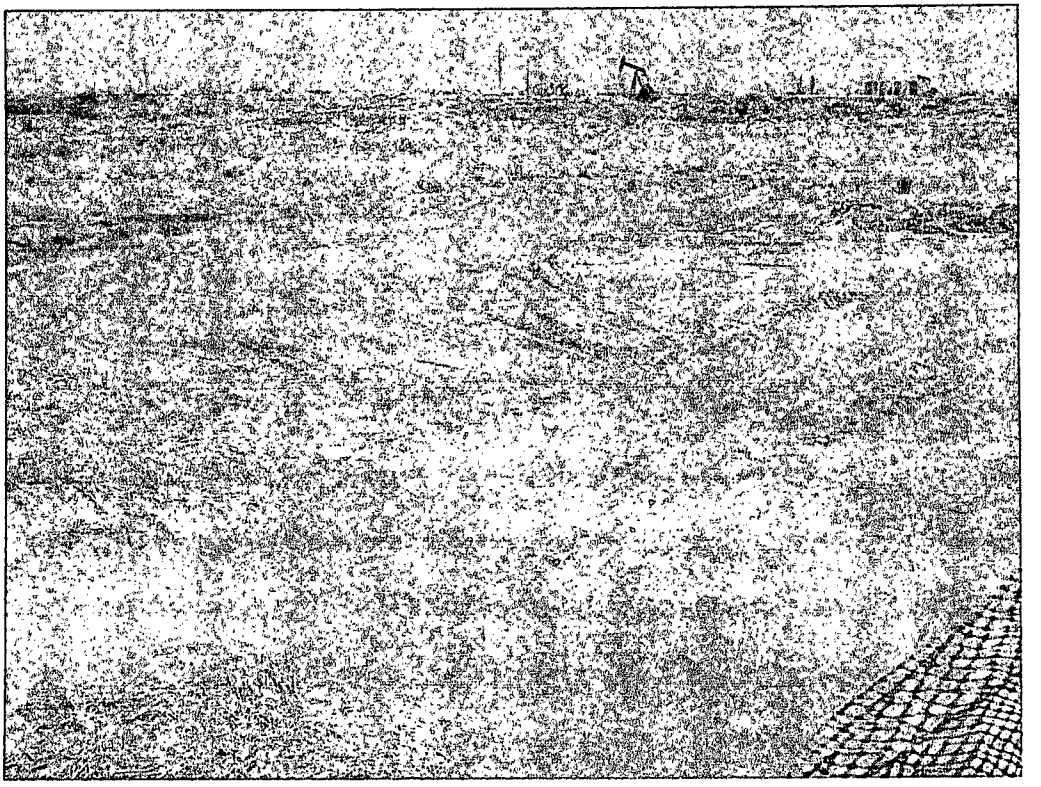
View East – CS-4

COG Operating LLC
Jenkins B Federal #12
Eddy County, New Mexico

TETRA TECH



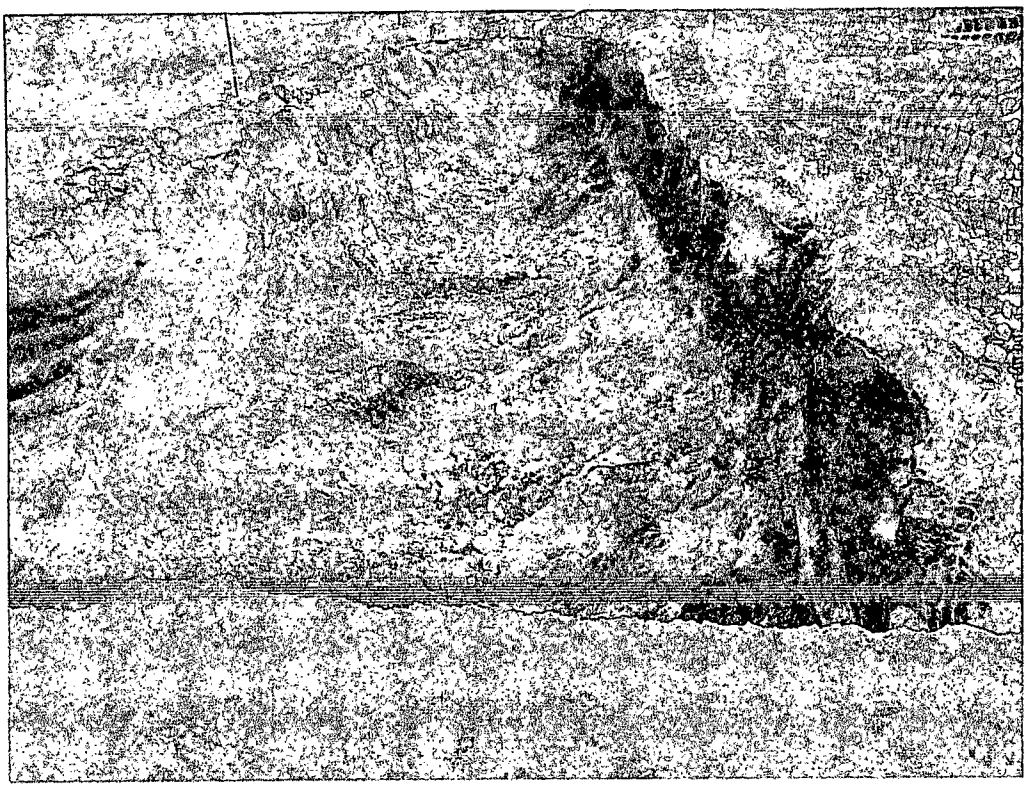
View East – CS-6



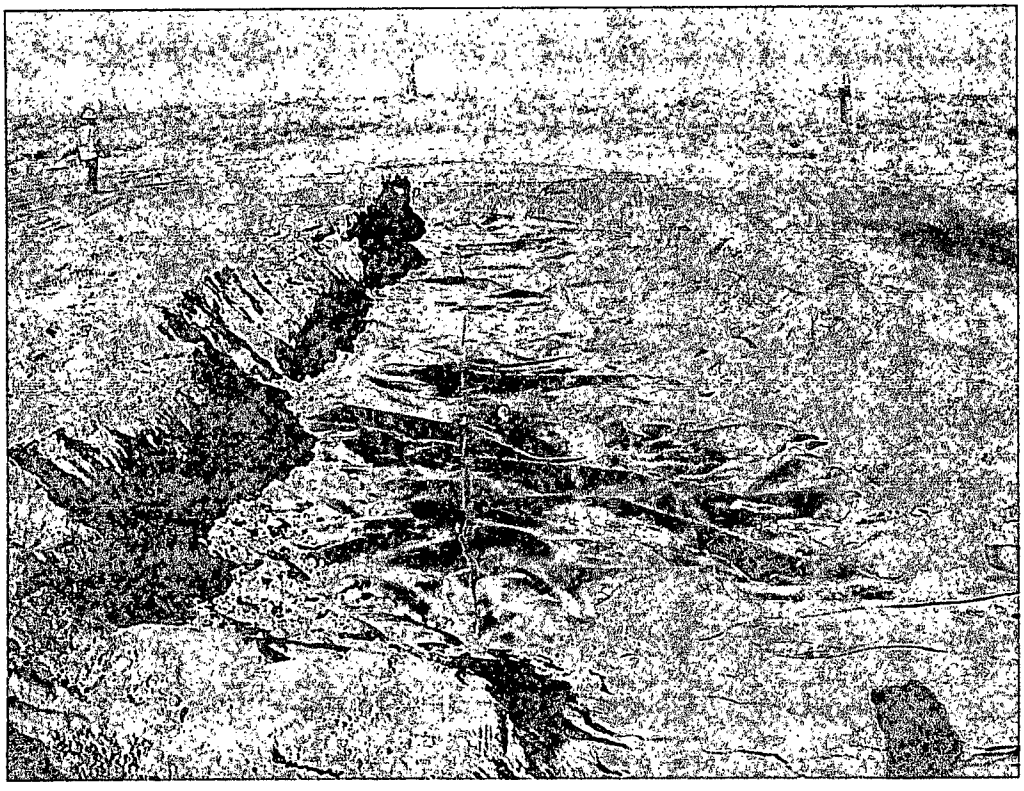
View North – CS-7

COG Operating LLC
Jenkins B Federal #12
Eddy County, New Mexico

TETRA TECH



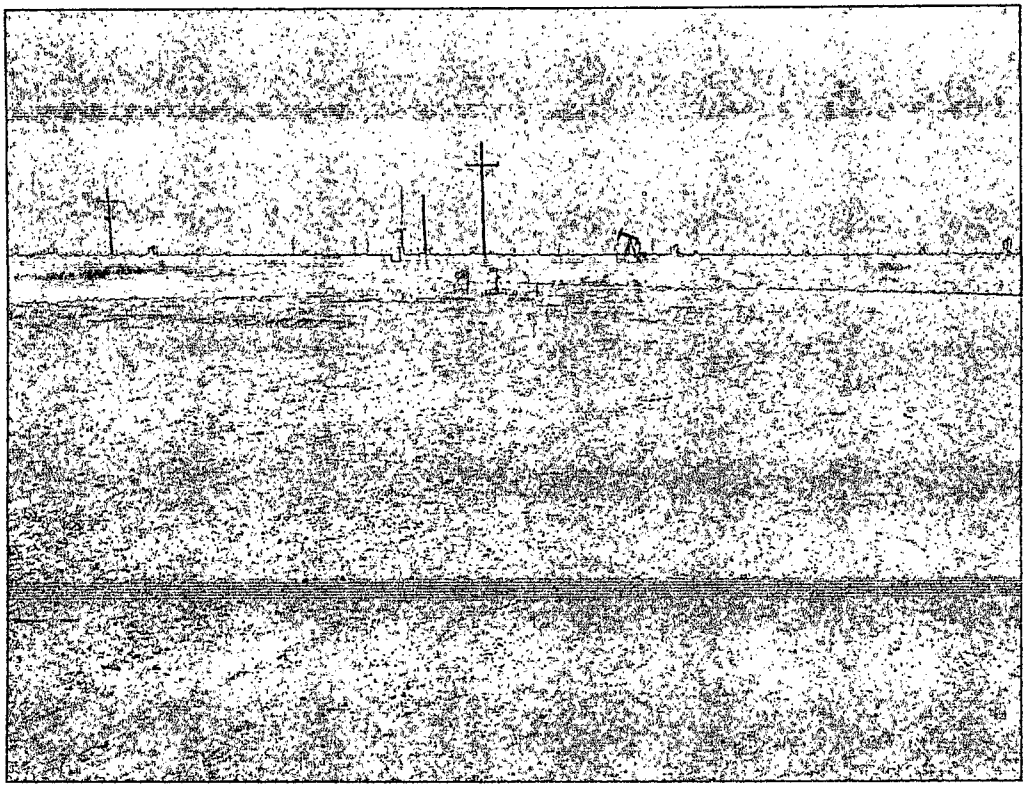
View East – SB-5



View West – SB-5

COG Operating LLC
Jenkins B Federal #12
Eddy County, New Mexico

TETRA TECH



View North West - Backfill

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	Jenkins B Federal # 12	Facility Type	Well

Surface Owner	Mineral Owner	Lease No.
Federal		NMLC-054988-B (API#) 30-015-31559

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	20	17S	30E	2310'	North	2310'	West	Eddy

Latitude 32.821007 Longitude 103.99520

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 35bbls	Volume Recovered: 20bbls
Source of Release: ½" nipple on wellhead	Date and Hour of Occurrence: 08/01/2010	Date and Hour of Discovery: 08/01/2010 8:00 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher—OCD	
By Whom? Josh Russo	Date and Hour: 08/02/2010 1:36 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
JUN 03 2011
NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.*

A ½" nipple on the wellhead failed causing the release. Replaced all fittings with stainless steel.

Describe Area Affected and Cleanup Action Taken.*

Initially we released 35bbls of produced water from the wellhead and were able to recover 20bbls with a vacuum truck. The dimensions of the spill areas are 2' x 60' to the north and 10' x 100 to the west, along with an overspray of 20' x 200' to the north. The pad area has been scraped and returned to its original condition. 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: 08/09/2010 Phone: 432-212-2399	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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 1300 Midland, Texas 79701**	Telephone No. **(432) 230-0077**
Facility Name Jenkins B Federal #12	Facility Type **Well**

Surface Owner: Federal	Mineral Owner	Lease No. NMLC-054988-B (API#) 30-015-31559

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	20	17S	30E	2310'	North	2310'	West	Eddy

Latitude N 32.853001° **Longitude** W 103.959150°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release 160 bbls	Volume Recovered 145 bbls
Source of Release: Equalizer	Date and Hour of Occurrence 3/13/10	Date and Hour of Discovery 3/13/2010
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Mike Bratcher--OCD**	
By Whom? Josh Russo	Date and Hour 08-02-2010 1:36 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

A 1/2" nipple on the wellhead failed causing the release. Replaced all fittings with stainless steel.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. Soil that elevated chloride concentrations was removed and hauled away for proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Ike Tavarez (Agent for COG)	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	Attached ☐
Date: 5/24/11 Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - Jenkins B Federal #12
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	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 SITE	21	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

- 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

APPENDIX C

Summary Report

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

Report Date: September 14, 2010

Work Order: 10090706

Project Location: Eddy County, NM
Project Name: COG/Jenkins Federal #12
Project Number: 114-6400679

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
243660	AH-1 0-1'	soil	2010-09-02	00:00	2010-09-03
243661	AH-1 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243662	AH-1 1.5-2'	soil	2010-09-02	00:00	2010-09-03
243663	AH-2 0-1'	soil	2010-09-02	00:00	2010-09-03
243664	AH-2 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243665	AH-3 0-1'	soil	2010-09-02	00:00	2010-09-03
243666	AH-3 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243667	AH-3 1.5-2'	soil	2010-09-02	00:00	2010-09-03
243668	AH-4 0-1'	soil	2010-09-02	00:00	2010-09-03
243669	AH-4 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243670	AH-4 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243671	AH-4 2.5-3'	soil	2010-09-02	00:00	2010-09-03
243672	AH-5 0-1'	soil	2010-09-02	00:00	2010-09-03
243673	AH-5 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243674	AH-5 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243675	AH-5 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243676	AH-5 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243677	AH-6 0-1'	soil	2010-09-02	00:00	2010-09-03
243678	AH-6 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243679	AH-6 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243680	AH-6 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243681	AH-6 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243682	AH-7 0-1'	soil	2010-09-02	00:00	2010-09-03
243683	AH-7 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243684	AH-7 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243685	AH-7 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243686	AH-8 0-1'	soil	2010-09-02	00:00	2010-09-03
243687	AH-8 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243688	AH-8 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243689	AH-8 3-3.5'	soil	2010-09-02	00:00	2010-09-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
243690	AH-8 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243691	AH-8 4.5-5'	soil	2010-09-02	00:00	2010-09-03
243692	AH-9 0-1'	soil	2010-09-02	00:00	2010-09-03
243693	AH-9 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243694	AH-9 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243695	AH-9 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243696	AH-9 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243697	AH-10 0-1'	soil	2010-09-02	00:00	2010-09-03
243698	AH-10 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243699	AH-10 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243700	AH-11 0-1'	soil	2010-09-02	00:00	2010-09-03
243701	AH-11 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243702	AH-11 2-2.5'	soil	2010-09-02	00:00	2010-09-03

	BTEX				TPH DRO - NEW	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
243660 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
243663 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
243665 - AH-3 0-1'					<50.0	<2.00
243668 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
243672 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
243677 - AH-6 0-1'					<50.0	<2.00
243682 - AH-7 0-1'					<50.0	<2.00
243686 - AH-8 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
243692 - AH-9 0-1'					<50.0	<2.00
243697 - AH-10 0-1'					<50.0	<2.00
243700 - AH-11 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

Sample: 243660 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**3710**	mg/Kg	4.00

Sample: 243661 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**12300**	mg/Kg	4.00

Sample: 243662 - AH-1 1.5-2'

Param	Flag	Result	Units	RL
Chloride		**7640**	mg/Kg	4.00

Sample: 243663 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		**14100**	mg/Kg	4.00

Sample: 243664 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**13400**	mg/Kg	4.00

Sample: 243665 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**12300**	mg/Kg	4.00

Sample: 243666 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**3300**	mg/Kg	4.00

Sample: 243667 - AH-3 1.5-2'

Param	Flag	Result	Units	RL
Chloride		**3930**	mg/Kg	4.00

Sample: 243668 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**12300**	mg/Kg	4.00

Sample: 243669 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**867**	mg/Kg	4.00

Sample: 243670 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**2760**	mg/Kg	4.00

Sample: 243671 - AH-4 2.5-3'

Param	Flag	Result	Units	RL
Chloride		**3100**	mg/Kg	4.00

Sample: 243672 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**11300**	mg/Kg	4.00

Sample: 243673 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**1130**	mg/Kg	4.00

Sample: 243674 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**675**	mg/Kg	4.00

Sample: 243675 - AH-5 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**227**	mg/Kg	4.00

Sample: 243676 - AH-5 4-4.5'

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

Sample: 243677 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**2870**	mg/Kg	4.00

Sample: 243678 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**594**	mg/Kg	4.00

Sample: 243679 - AH-6 2-2.5'

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

Sample: 243680 - AH-6 3-3.5'

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

Sample: 243681 - AH-6 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**262**	mg/Kg	4.00

Sample: 243682 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		**3590**	mg/Kg	4.00

Sample: 243683 - AH-7 1-1.5'

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

Sample: 243684 - AH-7 2-2.5'

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

Sample: 243685 - AH-7 3-3.5'

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

Sample: 243686 - AH-8 0-1'

Param	Flag	Result	Units	RL
Chloride		**10000**	mg/Kg	4.00

Sample: 243687 - AH-8 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**1840**	mg/Kg	4.00

Sample: 243688 - AH-8 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**912**	mg/Kg	4.00

Sample: 243689 - AH-8 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**701**	mg/Kg	4.00

Sample: 243690 - AH-8 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**4280**	mg/Kg	4.00

Sample: 243691 - AH-8 4.5-5'

Param	Flag	Result	Units	RL
Chloride		**6850**	mg/Kg	4.00

Sample: 243692 - AH-9 0-1'

Param	Flag	Result	Units	RL
Chloride		**1260**	mg/Kg	4.00

Sample: 243693 - AH-9 1-1.5'

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

Sample: 243694 - AH-9 2-2.5'

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

Sample: 243695 - AH-9 3-3.5'

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

Sample: 243696 - AH-9 4-4.5'

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

Sample: 243697 - AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		**293**	mg/Kg	4.00

Sample: 243698 - AH-10 1-1.5'

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

Sample: 243699 - AH-10 2-2.5'

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

Sample: 243700 - AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		**2660**	mg/Kg	4.00

Sample: 243701 - AH-11 1-1.5'

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

Sample: 243702 - AH-11 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<200	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: September 14, 2010

Work Order: 10090706

Project Location: Eddy County, NM
Project Name: COG/Jenkins Federal #12
Project Number: 114-6400679

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
243660	AH-1 0-1'	soil	2010-09-02	00:00	2010-09-03
243661	AH-1 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243662	AH-1 1.5-2'	soil	2010-09-02	00:00	2010-09-03
243663	AH-2 0-1'	soil	2010-09-02	00:00	2010-09-03
243664	AH-2 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243665	AH-3 0-1'	soil	2010-09-02	00:00	2010-09-03
243666	AH-3 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243667	AH-3 1.5-2'	soil	2010-09-02	00:00	2010-09-03
243668	AH-4 0-1'	soil	2010-09-02	00:00	2010-09-03
243669	AH-4 1-1.5'	soil	2010-09-02	00:00	2010-09-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
243670	AH-4 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243671	AH-4 2.5-3'	soil	2010-09-02	00:00	2010-09-03
243672	AH-5 0-1'	soil	2010-09-02	00:00	2010-09-03
243673	AH-5 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243674	AH-5 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243675	AH-5 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243676	AH-5 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243677	AH-6 0-1'	soil	2010-09-02	00:00	2010-09-03
243678	AH-6 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243679	AH-6 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243680	AH-6 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243681	AH-6 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243682	AH-7 0-1'	soil	2010-09-02	00:00	2010-09-03
243683	AH-7 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243684	AH-7 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243685	AH-7 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243686	AH-8 0-1'	soil	2010-09-02	00:00	2010-09-03
243687	AH-8 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243688	AH-8 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243689	AH-8 3-3.5'	soil	2010-09-02	00:00	2010-09-03
243690	AH-8 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243691	AH-8 4.5-5'	soil	2010-09-02	00:00	2010-09-03
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243693	AH-9 1-1.5'	soil	2010-09-02	00:00	2010-09-03
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243696	AH-9 4-4.5'	soil	2010-09-02	00:00	2010-09-03
243697	AH-10 0-1'	soil	2010-09-02	00:00	2010-09-03
243698	AH-10 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243699	AH-10 2-2.5'	soil	2010-09-02	00:00	2010-09-03
243700	AH-11 0-1'	soil	2010-09-02	00:00	2010-09-03
243701	AH-11 1-1.5'	soil	2010-09-02	00:00	2010-09-03
243702	AH-11 2-2.5'	soil	2010-09-02	00:00	2010-09-03

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/Jenkins Federal #12 were received by TraceAnalysis, Inc. on 2010-09-03 and assigned to work order 10090706. Samples for work order 10090706 were received intact at a temperature of 4.0 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	62914	2010-09-08 at 09:00	73353	2010-09-08 at 10:17
Chloride (Titration)	SM 4500-Cl B	62930	2010-09-09 at 09:22	73395	2010-09-10 at 11:23
Chloride (Titration)	SM 4500-Cl B	62932	2010-09-09 at 09:23	73397	2010-09-10 at 11:25
Chloride (Titration)	SM 4500-Cl B	62933	2010-09-09 at 09:23	73398	2010-09-10 at 11:25
Chloride (Titration)	SM 4500-Cl B	62935	2010-09-09 at 09:24	73399	2010-09-10 at 11:26
Chloride (Titration)	SM 4500-Cl B	62936	2010-09-09 at 09:24	73400	2010-09-10 at 11:27
TPH DRO - NEW	S 8015 D	62877	2010-09-07 at 14:30	73300	2010-09-07 at 14:30
TPH GRO	S 8015 D	62914	2010-09-08 at 09:00	73350	2010-09-08 at 10:45

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 10090706 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: 243660 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	Prepared By:	AG

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)		2.15	mg/Kg	1	2.00	108	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.13	mg/Kg	1	2.00	106	38.4 - 157

Sample: 243660 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**3710**	mg/Kg	100	4.00

Sample: 243660 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		89.0	mg/Kg	1	100	89	70 - 130

Sample: 243660 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.21	mg/Kg	1	2.00	110	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.96	mg/Kg	1	2.00	98	42 - 159

Sample: 243661 - AH-1 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**12300**	mg/Kg	100	4.00

Sample: 243662 - AH-1 1.5-2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**7640**	mg/Kg	100	4.00

Sample: 243663 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.14	mg/Kg	1	2.00	107	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.11	mg/Kg	1	2.00	106	38.4 - 157

Sample: 243663 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**14100**	mg/Kg	100	4.00

Sample: 243663 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		85.9	mg/Kg	1	100	86	70 - 130

Sample: 243663 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.21	mg/Kg	1	2.00	110	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.94	mg/Kg	1	2.00	97	42 - 159

Sample: 243664 - AH-2 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**13400**	mg/Kg	100	4.00

Sample: 243665 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73395	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62930	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**12300**	mg/Kg	100	4.00

Sample: 243665 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.1	mg/Kg	1	100	83	70 - 130

Sample: 243665 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		1.82	mg/Kg	1	2.00	91	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	42 - 159

Sample: 243666 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3300**	mg/Kg	100	4.00

Sample: 243667 - AH-3 1.5-2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

continued ...

sample 243667 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3930**	mg/Kg	100	4.00

Sample: 243668 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		1.99	mg/Kg	1	2.00	100	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	38.4 - 157

Sample: 243668 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**12300**	mg/Kg	100	4.00

Sample: 243668 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.3	mg/Kg	1	100	83	70 - 130

Sample: 243668 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.02	mg/Kg	1	2.00	101	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.68	mg/Kg	1	2.00	84	42 - 159

Sample: 243669 - AH-4 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**867**		mg/Kg	50	4.00

Sample: 243670 - AH-4 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2760**	mg/Kg	100	4.00

Sample: 243671 - AH-4 2.5-3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**3100**	mg/Kg	100	4.00

Sample: 243672 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	Prepared By:	AG

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)		2.28	mg/Kg	1	2.00	114	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.06	mg/Kg	1	2.00	103	38.4 - 157

Sample: 243672 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**11300**		mg/Kg	100	4.00

Sample: 243672 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.0	mg/Kg	1	100	83	70 - 130

Sample: 243672 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.28	mg/Kg	1	2.00	114	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.88	mg/Kg	1	2.00	94	42 - 159

Sample: 243673 - AH-5 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73397	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62932	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243674 - AH-5 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**675**	mg/Kg	50	4.00

Sample: 243675 - AH-5 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**227**	mg/Kg	50	4.00

Sample: 243676 - AH-5 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243677 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2870**		mg/Kg	100	4.00

Sample: 243677 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.6	mg/Kg	1	100	84	70 - 130

Sample: 243677 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		1.96	mg/Kg	1	2.00	98	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	42 - 159

Sample: 243678 - AH-6 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**594**	mg/Kg	50	4.00

Sample: 243679 - AH-6 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243680 - AH-6 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243681 - AH-6 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**262**	mg/Kg	50	4.00

Sample: 243682 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3590**		mg/Kg	100	4.00

Sample: 243682 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		81.3	mg/Kg	1	100	81	70 - 130

Sample: 243682 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		1.94	mg/Kg	1	2.00	97	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	42 - 159

Sample: 243683 - AH-7 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73398	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62933	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243684 - AH-7 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243685 - AH-7 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243686 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	Prepared By:	AG

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

continued ...

sample 243686 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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)		2.12	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.92	mg/Kg	1	2.00	96	38.4 - 157

Sample: 243686 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10000**	mg/Kg	100	4.00

Sample: 243686 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		84.0	mg/Kg	1	100	84	70 - 130

Sample: 243686 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.14	mg/Kg	1	2.00	107	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	42 - 159

Sample: 243687 - AH-8 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1840**	mg/Kg	100	4.00

Sample: 243688 - AH-8 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**912**	mg/Kg	100	4.00

Sample: 243689 - AH-8 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**701**	mg/Kg	100	4.00

Sample: 243690 - AH-8 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**4280**	mg/Kg	100	4.00

Sample: 243691 - AH-8 4.5-5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**6850**	mg/Kg	100	4.00

Sample: 243692 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1260**	mg/Kg	100	4.00

Sample: 243692 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.4	mg/Kg	1	100	83	70 - 130

Sample: 243692 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.00	mg/Kg	1	2.00	100	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.59	mg/Kg	1	2.00	80	42 - 159

Sample: 243693 - AH-9 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73399	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62935	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243694 - AH-9 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243695 - AH-9 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243696 - AH-9 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243697 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**293**	mg/Kg	50	4.00

Sample: 243697 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	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		83.4	mg/Kg	1	100	83	70 - 130

Sample: 243697 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		1.33	mg/Kg	1	2.00	66	42 - 159

Sample: 243698 - AH-10 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243699 - AH-10 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243700 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	73353	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.06	mg/Kg	1	2.00	103	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.84	mg/Kg	1	2.00	92	38.4 - 157

Sample: 243700 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2660**	mg/Kg	100	4.00

Sample: 243700 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	Sample Preparation:	2010-09-07	Prepared By:	kg

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

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

Sample: 243700 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	73350	Date Analyzed:	2010-09-08	Analyzed By:	AG
Prep Batch:	62914	Sample Preparation:	2010-09-08	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)		2.11	mg/Kg	1	2.00	106	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.69	mg/Kg	1	2.00	84	42 - 159

Sample: 243701 - AH-11 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Sample: 243702 - AH-11 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73400	Date Analyzed:	2010-09-10	Analyzed By:	AR
Prep Batch:	62936	Sample Preparation:	2010-09-09	Prepared By:	AR

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

Method Blank (1) QC Batch: 73300

QC Batch:	73300	Date Analyzed:	2010-09-07	Analyzed By:	kg
Prep Batch:	62877	QC Preparation:	2010-09-07	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		83.5	mg/Kg	1	100	84	70 - 130

Method Blank (1) QC Batch: 73350

QC Batch: 73350 Date Analyzed: 2010-09-08 Analyzed By: AG
Prep Batch: 62914 QC Preparation: 2010-09-08 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)		2.05	mg/Kg	1	2.00	102	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.84	mg/Kg	1	2.00	92	52.4 - 130

Method Blank (1) QC Batch: 73353

QC Batch: 73353 Date Analyzed: 2010-09-08 Analyzed By: AG
Prep Batch: 62914 QC Preparation: 2010-09-08 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)		2.03	mg/Kg	1	2.00	102	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.94	mg/Kg	1	2.00	97	55.4 - 132

Method Blank (1) QC Batch: 73395

QC Batch: 73395 Date Analyzed: 2010-09-10 Analyzed By: AR
Prep Batch: 62930 QC Preparation: 2010-09-09 Prepared By: AR

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

Method Blank (1) QC Batch: 73397

QC Batch: 73397 Date Analyzed: 2010-09-10 Analyzed By: AR
Prep Batch: 62932 QC Preparation: 2010-09-09 Prepared By: AR

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

Method Blank (1) QC Batch: 73398

QC Batch: 73398 Date Analyzed: 2010-09-10 Analyzed By: AR
Prep Batch: 62933 QC Preparation: 2010-09-09 Prepared By: AR

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

Method Blank (1) QC Batch: 73399

QC Batch: 73399 Date Analyzed: 2010-09-10 Analyzed By: AR
Prep Batch: 62935 QC Preparation: 2010-09-09 Prepared By: AR

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

Method Blank (1) QC Batch: 73400

QC Batch: 73400 Date Analyzed: 2010-09-10 Analyzed By: AR
Prep Batch: 62936 QC Preparation: 2010-09-09 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 73300 | Date Analyzed: 2010-09-07 | Analyzed By: kg
Prep Batch: 62877 | QC Preparation: 2010-09-07 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	222	mg/Kg	1	250	<14.5	89	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	241	mg/Kg	1	250	<14.5	96	57.4 - 133.4	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	90.6	91.5	mg/Kg	1	100	91	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 73350 | Date Analyzed: 2010-09-08 | Analyzed By: AG
Prep Batch: 62914 | QC Preparation: 2010-09-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.4	mg/Kg	1	20.0	<1.65	87	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	17.4	mg/Kg	1	20.0	<1.65	87	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)	2.01	1.98	mg/Kg	1	2.00	100	99	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.80	1.74	mg/Kg	1	2.00	90	87	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 73353 | Date Analyzed: 2010-09-08 | Analyzed By: AG
Prep Batch: 62914 | QC Preparation: 2010-09-08 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.06	mg/Kg	1	2.00	<0.0150	103	81.9 - 108
Toluene	2.04	mg/Kg	1	2.00	<0.00950	102	81.9 - 107
Ethylbenzene	2.09	mg/Kg	1	2.00	<0.0106	104	78.4 - 107
Xylene	6.27	mg/Kg	1	6.00	<0.00930	104	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	2.12	mg/Kg	1	2.00	<0.0150	106	81.9 - 108	3	20
Toluene	2.09	mg/Kg	1	2.00	<0.00950	104	81.9 - 107	2	20
Ethylbenzene [1]	2.15	mg/Kg	1	2.00	<0.0106	108	78.4 - 107	3	20
Xylene	6.43	mg/Kg	1	6.00	<0.00930	107	79.1 - 107	2	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	1.99	mg/Kg	1	2.00	100	100	70.2 - 114
4-Bromofluorobenzene (4-BFB)	2.28	2.19	mg/Kg	1	2.00	114	110	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 73395 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62930 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.1	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	99.8	mg/Kg	1	100	<2.18	100	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: 73397 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62932 | QC Preparation: 2010-09-09 | Prepared By: AR

[1] LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therfore, LCS shows extraction occured properly.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.0	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	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: 73398 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62933 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.3	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: 73399 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62935 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.0	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: 73400 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62936 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.9	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	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: 243783

QC Batch: 73300 | Date Analyzed: 2010-09-07 | Analyzed By: kg
Prep Batch: 62877 | QC Preparation: 2010-09-07 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	191	mg/Kg	1	250	<14.5	76	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	182	mg/Kg	1	250	<14.5	73	35.2 - 167.1	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
n-Tricosane	80.6	80.9	mg/Kg	1	100	81	81	70 - 130

Matrix Spike (MS-1) Spiked Sample: 243776

QC Batch: 73350 | Date Analyzed: 2010-09-08 | Analyzed By: AG
Prep Batch: 62914 | QC Preparation: 2010-09-08 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.4	mg/Kg	1	20.0	<1.65	82	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	17.7	mg/Kg	1	20.0	<1.65	88	61.8 - 114	8	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)	2.10	2.01	mg/Kg	1	2	105	100	50 - 162
4-Bromofluorobenzene (4-BFB)	1.75	1.67	mg/Kg	1	2	88	84	50 - 162

Matrix Spike (MS-1) Spiked Sample: 243665

QC Batch: 73395 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62930 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	22200	mg/Kg	100	10000	12300	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	22600	mg/Kg	100	10000	12300	103	85 - 115	2	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: 243673

QC Batch: 73397 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62932 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10900	mg/Kg	100	10000	1130	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	11400	mg/Kg	100	10000	1130	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: 243683

QC Batch: 73398 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62933 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	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	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: 243693

QC Batch: 73399 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62935 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9910	mg/Kg	100	10000	<218	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	10500	mg/Kg	100	10000	<218	104	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: 243706

QC Batch: 73400 | Date Analyzed: 2010-09-10 | Analyzed By: AR
Prep Batch: 62936 | QC Preparation: 2010-09-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	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	103	85 - 115	4	20

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

Standard (CCV-1)

QC Batch: 73300 | Date Analyzed: 2010-09-07 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	214	86	80 - 120	2010-09-07

Standard (CCV-2)

QC Batch: 73300 Date Analyzed: 2010-09-07 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	80 - 120	2010-09-07

Standard (CCV-3)

QC Batch: 73300 Date Analyzed: 2010-09-07 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	209	84	80 - 120	2010-09-07

Standard (CCV-1)

QC Batch: 73350 Date Analyzed: 2010-09-08 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	1.19	119	80 - 120	2010-09-08

Standard (CCV-2)

QC Batch: 73350 Date Analyzed: 2010-09-08 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	0.898	90	80 - 120	2010-09-08

Standard (CCV-3)

QC Batch: 73350 Date Analyzed: 2010-09-08 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	0.886	89	80 - 120	2010-09-08

Standard (CCV-1)

QC Batch: 73353 Date Analyzed: 2010-09-08 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	0.102	102	80 - 120	2010-09-08
Toluene		mg/Kg	0.100	0.103	103	80 - 120	2010-09-08
Ethylbenzene		mg/Kg	0.100	0.108	108	80 - 120	2010-09-08
Xylene		mg/Kg	0.300	0.316	105	80 - 120	2010-09-08

Standard (CCV-2)

QC Batch: 73353 Date Analyzed: 2010-09-08 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	0.101	101	80 - 120	2010-09-08
Toluene		mg/Kg	0.100	0.0982	98	80 - 120	2010-09-08
Ethylbenzene		mg/Kg	0.100	0.0979	98	80 - 120	2010-09-08
Xylene		mg/Kg	0.300	0.284	95	80 - 120	2010-09-08

Standard (CCV-3)

QC Batch: 73353 Date Analyzed: 2010-09-08 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	0.103	103	80 - 120	2010-09-08
Toluene		mg/Kg	0.100	0.0999	100	80 - 120	2010-09-08
Ethylbenzene		mg/Kg	0.100	0.0968	97	80 - 120	2010-09-08
Xylene		mg/Kg	0.300	0.282	94	80 - 120	2010-09-08

Standard (ICV-1)

QC Batch: 73395 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (CCV-1)

QC Batch: 73395 Date Analyzed: 2010-09-10 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2010-09-10

Standard (ICV-1)

QC Batch: 73397 Date Analyzed: 2010-09-10 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2010-09-10

Standard (CCV-1)

QC Batch: 73397 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (ICV-1)

QC Batch: 73398 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (CCV-1)

QC Batch: 73398 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (ICV-1)

QC Batch: 73399 Date Analyzed: 2010-09-10 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2010-09-10

Standard (CCV-1)

QC Batch: 73399 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (ICV-1)

QC Batch: 73400 Date Analyzed: 2010-09-10 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	2010-09-10

Standard (CCV-1)

QC Batch: 73400 Date Analyzed: 2010-09-10 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	2010-09-10

WO #: 100907006

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: 5

CLIENT NAME: COG Energy

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400679

PROJECT NAME: Jenkins Federal #12, Eddy Co, NM

LAB I.D. NUMBER	DATE	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. 608/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
2436660	09/02/10		S		✓	AH-1 (0-1)	1				✓			✓											✓				
6661	09/02/10		S		✓	AH-1 (1-1.5')	1				✓														✓				
6662	09/02/10		S		✓	AH-1 (1.5'-2')	1				✓														✓				
6663	09/02/10		S		✓	AH-2 (0-1')	1				✓			✓											✓				
6664	09/02/10		S		✓	AH-2 (1-1.5')	1				✓														✓				
6665	09/02/10		S		✓	AH-3 (0-1')	1				✓			✓											✓				
6666	09/02/10		S		✓	AH-3 (1-1.5')	1				✓														✓				
6667	09/02/10		S		✓	AH-3 (1.5-2')	1				✓														✓				
6668	09/02/10		S		✓	AH-4 (0-1')	1				✓			✓											✓				
6669	09/02/10		S		✓	AH-4 (1-1.5')	1				✓														✓				

RELINQUISHED BY: (Signature) Dallas Kmiley — Date: 9/3/10 — Time: 1420

RECEIVED BY: (Signature) — Date: 9/3/10 — Time: 14:20

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

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

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:

SAMPLED BY: (Print & Initial) — Date: — Time:

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

AIRBILL #:

OTHER:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.2°C iMact

REMARKS: IF TPH ≥ 1000 mg/kg run next deepest sample for TPH
Run BTEX on 6 highest TPH

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 #: 100907026

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 Energy

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400679

PROJECT NAME: Jenkins Federal #12, Eddy County, NM

LAB I.D. NUMBER	DATE	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
243670	09/02/10		S		✓	AH-4 (2-2.5')	1				✓														✓				
671	09/02/10		S		✓	AH-4 (2.5-3')	1				✓														✓				
672	09/02/10		S		✓	AH-5 (0-1')	1				✓			✓											✓				
673	09/02/10		S		✓	AH-5 (1-1.5')	1				✓														✓				
674	09/02/10		S		✓	AH-5 (2-2.5')	1				✓														✓				
675	09/02/10		S		✓	AH-5 (3-3.5')	1				✓														✓				
676	09/02/10		S		✓	AH-5 (4-4.5')	1				✓														✓				
677	09/02/10		S		✓	AH-6 (0-1')	1				✓			✓											✓				
678	09/02/10		S		✓	AH-6 (1-1.5')	1				✓														✓				
679	09/02/10		S		✓	AH-6 (2-2.5')	1				✓														✓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Dillon Kruger	Date: 09/03/10 Time: 1420	RECEIVED BY: (Signature)	Date: 9/3/10 Time: 14:20
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) Date: Time:

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

TETRA TECH CONTACT PERSON: Results by:

RUSH Charges Authorized: Yes No

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

SAMPLE CONDITION WHEN RECEIVED: 4.0°C intact

REMARKS: If TPH ≥ 1000 mg/kg run next deepest Sample For TPH
Run BTEX on 6 highest TPH

VG

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 #: 100907706

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 114-640 0679
PROJECT NAME: Jenkins Federal #12, Eddy Co. NM

LAB I.D. NUMBER	DATE	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
243680	09/02/10		S		✓	AH-6 (3-3.5')	1				✓													✓				
681	09/02/10		S		✓	AH-6 (4-4.5')	1				✓													✓				
682	09/02/10		S		✓	AH-7 (0-1')	1				✓			✓										✓				
683	09/02/10		S		✓	AH-7 (1-1.5')	1				✓													✓				
684	09/02/10		S		✓	AH-7 (2-2.5')	1				✓													✓				
685	09/02/10		S		✓	AH-7 (3-3.5')	1				✓													✓				
686	09/02/10		S		✓	AH-8 (0-1')	1				✓			✓										✓				
687	09/02/10		S		✓	AH-8 (1-1.5')	1				✓													✓				
688	09/02/10		S		✓	AH-8 (2-2.5')	1				✓													✓				
689	09/02/10		S		✓	AH-8 (3-3.5')	1				✓													✓				

RELINQUISHED BY: (Signature) Date: 9/10/2010 Time: 1420
RECEIVED BY: (Signature) Date: 9/3/10 Time: 14:20
SAMPLED BY: (Print & Initial) Date: 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: Results by:

RECEIVING LABORATORY: Trau
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4, 2°C intact

REMARKS: If TPH I 1000 mg/kg run next dagger in TPH
Run BTEX on 6 highest TPH

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.

WO #: 10090706

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 Energy
SITE MANAGER: Ike Tavarez
PROJECT NO.: 114-640 0679
PROJECT NAME: Jenkins Federal # 12, Eddy Co, NM

LAB I.D. NUMBER	DATE	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 C36)	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
243690	09/02/10		S		✓	AH-8 (4-4.5')	1				✓															✓				
691	09/02/10		S		✓	AH-8 (4.5-5')	1				✓															✓				
692	09/02/10		S		✓	AH-9 (0-1')	1				✓			✓												✓				
693	09/02/10		S		✓	AH-9 (1-1.5')	1				✓															✓				
694	09/02/10		S		✓	AH-9 (2-2.5')	1				✓															✓				
695	09/02/10		S		✓	AH-9 (3-3.5')	1				✓															✓				
696	09/02/10		S		✓	AH-9 (4-4.5')	1				✓															✓				
697	09/02/10		S		✓	AH-10 (0-1')	1				✓			✓												✓				
698	09/02/10		S		✓	AH-10 (1-1.5')	1				✓															✓				
699	09/02/10		S		✓	AH-10 (2-2.5')	1				✓															✓				

RELINQUISHED BY: (Signature) Dallas Kindle	Date: 09/03/10 Time: 1420	RECEIVED BY: (Signature)	Date: 9/3/10 Time: 14:20
SAMPLED BY: (Print & Initial)	Date: 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:	Results by:		
RECEIVING LABORATORY: Trac ADDRESS: CITY: Midland STATE: Tx ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.0°C Intact

REMARKS: IF TPH ≥ 1000 mg/kg run next largest sample for TPH
Run BTEX ON 6 Highest TPH

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 #: 10097916

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 5

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

CLIENT NAME: COG Energy

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400679

PROJECT NAME: Jenkins Federal #12, Eddy Co, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	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. 8240/8260/824	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
243700	09/02/10		S		✓	AH-10 (0-1')	1				✓			✓												✓				
701	09/02/10		S		✓	AH-11 (1-1.5')	1				✓															✓				
702	09/02/10		S		✓	AH-11 (2-2.5')	1				✓															✓				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 09/03/10 Time: 1420	RECEIVED BY: (Signature)	Date: 9/3/10 Time: 14:20
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) Date: Time:

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

TETRA TECH CONTACT PERSON: Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Dan

ADDRESS:

CITY: Midland STATE: Tx ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

SAMPLE CONDITION WHEN RECEIVED: 4.0°C intact

REMARKS: If TPH I (1000 mg/kg run next depth sample for TPH
Run BTEX on 6 Highest TPH

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 8, 2010

Work Order: 10120602

Project Location: Eddy Co., NM
Project Name: COG/Jenkins B Federal #13
Project Number: 114-6400679

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252306	SB-1 0-1'	soil	2010-12-02	00:00	2010-12-03
252307	SB-1 3'	soil	2010-12-02	00:00	2010-12-03
252308	SB-1 5'	soil	2010-12-02	00:00	2010-12-03
252309	SB-1 7'	soil	2010-12-02	00:00	2010-12-03
252310	SB-1 10'	soil	2010-12-02	00:00	2010-12-03
252311	SB-1 15'	soil	2010-12-02	00:00	2010-12-03
252312	SB-1 20'	soil	2010-12-02	00:00	2010-12-03
252313	SB-2 0-1'	soil	2010-12-02	00:00	2010-12-03
252314	SB-2 3'	soil	2010-12-02	00:00	2010-12-03
252315	SB-2 5'	soil	2010-12-02	00:00	2010-12-03
252316	SB-2 7'	soil	2010-12-02	00:00	2010-12-03
252317	SB-2 10'	soil	2010-12-02	00:00	2010-12-03
252318	SB-2 15'	soil	2010-12-02	00:00	2010-12-03
252319	SB-2 20'	soil	2010-12-02	00:00	2010-12-03
252320	SB-3 0-1'	soil	2010-12-02	00:00	2010-12-03
252321	SB-3 3'	soil	2010-12-02	00:00	2010-12-03
252322	SB-3 5'	soil	2010-12-02	00:00	2010-12-03
252323	SB-3 7'	soil	2010-12-02	00:00	2010-12-03
252324	SB-3 10'	soil	2010-12-02	00:00	2010-12-03
252325	SB-3 15'	soil	2010-12-02	00:00	2010-12-03
252326	SB-3 20'	soil	2010-12-02	00:00	2010-12-03
252327	SB-4 0-1'	soil	2010-12-02	00:00	2010-12-03
252328	SB-4 3'	soil	2010-12-02	00:00	2010-12-03
252329	SB-4 5'	soil	2010-12-02	00:00	2010-12-03
252330	SB-4 10'	soil	2010-12-02	00:00	2010-12-03
252331	SB-4 7'	soil	2010-12-02	00:00	2010-12-03
252332	SB-4 15'	soil	2010-12-02	00:00	2010-12-03
252333	SB-4 20'	soil	2010-12-02	00:00	2010-12-03
252334	SB-5 0-1'	soil	2010-12-02	00:00	2010-12-03
252335	SB-5 3'	soil	2010-12-02	00:00	2010-12-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252336	SB-5 5'	soil	2010-12-02	00:00	2010-12-03
252337	SB-5 7'	soil	2010-12-02	00:00	2010-12-03
252338	SB-5 15'	soil	2010-12-02	00:00	2010-12-03
252339	SB-5 20'	soil	2010-12-02	00:00	2010-12-03
252340	SB-5 25'	soil	2010-12-02	00:00	2010-12-03
252341	SB-5 30'	soil	2010-12-02	00:00	2010-12-03
252342	SB-5 40'	soil	2010-12-02	00:00	2010-12-03
252343	SB-5 50'	soil	2010-12-02	00:00	2010-12-03
252344	SB-5 60'	soil	2010-12-02	00:00	2010-12-03

Sample: 252306 - SB-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**10000**	mg/Kg	4.00

Sample: 252307 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		**4730**	mg/Kg	4.00

Sample: 252308 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		**4390**	mg/Kg	4.00

Sample: 252309 - SB-1 7'

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

Sample: 252310 - SB-1 10'

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

Sample: 252311 - SB-1 15'

continued ...

sample 252311 continued ...

Param	Flag	Result	Units	RL

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

Sample: 252312 - SB-1 20'

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

Sample: 252313 - SB-2 0-1'

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

Sample: 252314 - SB-2 3'

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

Sample: 252315 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		**743**	mg/Kg	4.00

Sample: 252316 - SB-2 7'

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

Sample: 252317 - SB-2 10'

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

Sample: 252318 - SB-2 15'

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

Sample: 252319 - SB-2 20'

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

Sample: 252320 - SB-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**8730**	mg/Kg	4.00

Sample: 252321 - SB-3 3'

Param	Flag	Result	Units	RL
Chloride		**11400**	mg/Kg	4.00

Sample: 252322 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		**876**	mg/Kg	4.00

Sample: 252323 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		**1170**	mg/Kg	4.00

Sample: 252324 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		**456**	mg/Kg	4.00

Sample: 252325 - SB-3 15'

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

Sample: 252326 - SB-3 20'

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

Sample: 252327 - SB-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**7950**	mg/Kg	4.00

Sample: 252328 - SB-4 3'

Param	Flag	Result	Units	RL
Chloride		**3040**	mg/Kg	4.00

Sample: 252329 - SB-4 5'

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

Sample: 252330 - SB-4 10'

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

Sample: 252331 - SB-4 7'

Param	Flag	Result	Units	RL
Chloride		**261**	mg/Kg	4.00

Sample: 252332 - SB-4 15'

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

Sample: 252333 - SB-4 20'

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

Sample: 252334 - SB-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**19700**	mg/Kg	4.00

Sample: 252335 - SB-5 3'

Param	Flag	Result	Units	RL
Chloride		**8640**	mg/Kg	4.00

Sample: 252336 - SB-5 5'

Param	Flag	Result	Units	RL
Chloride		**1830**	mg/Kg	4.00

Sample: 252337 - SB-5 7'

Param	Flag	Result	Units	RL
Chloride		**8590**	mg/Kg	4.00

Sample: 252338 - SB-5 15'

Param	Flag	Result	Units	RL
Chloride		**1730**	mg/Kg	4.00

Sample: 252339 - SB-5 20'

Param	Flag	Result	Units	RL
Chloride		**850**	mg/Kg	4.00

Sample: 252340 - SB-5 25'

Param	Flag	Result	Units	RL
Chloride		**1500**	mg/Kg	4.00

Sample: 252341 - SB-5 30'

Param	Flag	Result	Units	RL
Chloride		**352**	mg/Kg	4.00

Sample: 252342 - SB-5 40'

Param	Flag	Result	Units	RL
Chloride		**2070**	mg/Kg	4.00

Sample: 252343 - SB-5 50'

Param	Flag	Result	Units	RL
Chloride		**394**	mg/Kg	4.00

Sample: 252344 - SB-5 60'

Param	Flag	Result	Units	RL
Chloride		<200	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 8, 2010

Work Order: 10120602

Project Location: Eddy Co., NM
Project Name: COG/Jenkins B Federal #13
Project Number: 114-6400679

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
252306	SB-1 0-1'	soil	2010-12-02	00:00	2010-12-03
252307	SB-1 3'	soil	2010-12-02	00:00	2010-12-03
252308	SB-1 5'	soil	2010-12-02	00:00	2010-12-03
252309	SB-1 7'	soil	2010-12-02	00:00	2010-12-03
252310	SB-1 10'	soil	2010-12-02	00:00	2010-12-03
252311	SB-1 15'	soil	2010-12-02	00:00	2010-12-03
252312	SB-1 20'	soil	2010-12-02	00:00	2010-12-03
252313	SB-2 0-1'	soil	2010-12-02	00:00	2010-12-03
252314	SB-2 3'	soil	2010-12-02	00:00	2010-12-03
252315	SB-2 5'	soil	2010-12-02	00:00	2010-12-03

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252316	SB-2 7'	soil	2010-12-02	00:00	2010-12-03
252317	SB-2 10'	soil	2010-12-02	00:00	2010-12-03
252318	SB-2 15'	soil	2010-12-02	00:00	2010-12-03
252319	SB-2 20'	soil	2010-12-02	00:00	2010-12-03
252320	SB-3 0-1'	soil	2010-12-02	00:00	2010-12-03
252321	SB-3 3'	soil	2010-12-02	00:00	2010-12-03
252322	SB-3 5'	soil	2010-12-02	00:00	2010-12-03
252323	SB-3 7'	soil	2010-12-02	00:00	2010-12-03
252324	SB-3 10'	soil	2010-12-02	00:00	2010-12-03
252325	SB-3 15'	soil	2010-12-02	00:00	2010-12-03
252326	SB-3 20'	soil	2010-12-02	00:00	2010-12-03
252327	SB-4 0-1'	soil	2010-12-02	00:00	2010-12-03
252328	SB-4 3'	soil	2010-12-02	00:00	2010-12-03
252329	SB-4 5'	soil	2010-12-02	00:00	2010-12-03
252330	SB-4 10'	soil	2010-12-02	00:00	2010-12-03
252331	SB-4 7'	soil	2010-12-02	00:00	2010-12-03
252332	SB-4 15'	soil	2010-12-02	00:00	2010-12-03
252333	SB-4 20'	soil	2010-12-02	00:00	2010-12-03
252334	SB-5 0-1'	soil	2010-12-02	00:00	2010-12-03
252335	SB-5 3'	soil	2010-12-02	00:00	2010-12-03
252336	SB-5 5'	soil	2010-12-02	00:00	2010-12-03
252337	SB-5 7'	soil	2010-12-02	00:00	2010-12-03
252338	SB-5 15'	soil	2010-12-02	00:00	2010-12-03
252339	SB-5 20'	soil	2010-12-02	00:00	2010-12-03
252340	SB-5 25'	soil	2010-12-02	00:00	2010-12-03
252341	SB-5 30'	soil	2010-12-02	00:00	2010-12-03
252342	SB-5 40'	soil	2010-12-02	00:00	2010-12-03
252343	SB-5 50'	soil	2010-12-02	00:00	2010-12-03
252344	SB-5 60'	soil	2010-12-02	00:00	2010-12-03

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.

Michael Abel

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/Jenkins B Federal #13 were received by TraceAnalysis, Inc. on 2010-12-03 and assigned to work order 10120602. Samples for work order 10120602 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
Chloride (Titration)	SM 4500-Cl B	65131	2010-12-07 at 08:59	75951	2010-12-07 at 14:01
Chloride (Titration)	SM 4500-Cl B	65131	2010-12-07 at 08:59	75952	2010-12-07 at 14:02
Chloride (Titration)	SM 4500-Cl B	65131	2010-12-07 at 08:59	75953	2010-12-07 at 14:03
Chloride (Titration)	SM 4500-Cl B	65131	2010-12-07 at 08:59	75954	2010-12-07 at 14:04

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 10120602 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: 252306 - SB-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**10000**	mg/Kg	100	4.00

Sample: 252307 - SB-1 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**4730**	mg/Kg	100	4.00

Sample: 252308 - SB-1 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**4390**	mg/Kg	100	4.00

Sample: 252309 - SB-1 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

continued ...

sample 252309 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Sample: 252310 - SB-1 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252311 - SB-1 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252312 - SB-1 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252313 - SB-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252314 - SB-2 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252315 - SB-2 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**743**	mg/Kg	50	4.00

Sample: 252316 - SB-2 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252317 - SB-2 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252318 - SB-2 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252319 - SB-2 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252320 - SB-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**8730**	mg/Kg	100	4.00

Sample: 252321 - SB-3 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**11400**	mg/Kg	100	4.00

Sample: 252322 - SB-3 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**876**	mg/Kg	50	4.00

Sample: 252323 - SB-3 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1170**	mg/Kg	100	4.00

Sample: 252324 - SB-3 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**456**	mg/Kg	50	4.00

Sample: 252325 - SB-3 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252326 - SB-3 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252327 - SB-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**7950**		mg/Kg	100	4.00

Sample: 252328 - SB-4 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**3040**		mg/Kg	100	4.00

Sample: 252329 - SB-4 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252330 - SB-4 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252331 - SB-4 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**261**	mg/Kg	50	4.00

Sample: 252332 - SB-4 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252333 - SB-4 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Sample: 252334 - SB-5 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**19700**	mg/Kg	100	4.00

Sample: 252335 - SB-5 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8640**	mg/Kg	100	4.00

Sample: 252336 - SB-5 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1830**	mg/Kg	100	4.00

Sample: 252337 - SB-5 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8590**	mg/Kg	100	4.00

Sample: 252338 - SB-5 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1730**	mg/Kg	100	4.00

Sample: 252339 - SB-5 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**850**	mg/Kg	100	4.00

Sample: 252340 - SB-5 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1500**	mg/Kg	100	4.00

Sample: 252341 - SB-5 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**352**	mg/Kg	50	4.00

Sample: 252342 - SB-5 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2070**	mg/Kg	100	4.00

Sample: 252343 - SB-5 50'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**394**	mg/Kg	50	4.00

Sample: 252344 - SB-5 60'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	Sample Preparation:	2010-12-07	Prepared By:	AR

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

Method Blank (1) QC Batch: 75951

QC Batch:	75951	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	QC Preparation:	2010-12-07	Prepared By:	AR

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

Method Blank (1) QC Batch: 75952

QC Batch:	75952	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	QC Preparation:	2010-12-07	Prepared By:	AR

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

Method Blank (1) QC Batch: 75953

QC Batch:	75953	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	QC Preparation:	2010-12-07	Prepared By:	AR

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

Method Blank (1) QC Batch: 75954

QC Batch:	75954	Date Analyzed:	2010-12-07	Analyzed By:	AR
Prep Batch:	65131	QC Preparation:	2010-12-07	Prepared By:	AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 75951 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.9	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: 75952 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.8	mg/Kg	1	100	<2.18	97	85 - 115

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

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 75953 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | 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	104	mg/Kg	1	100	<2.18	104	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: 75954 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<2.18	97	85 - 115

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

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

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

Matrix Spike (MS-1) Spiked Sample: 252315

QC Batch: 75951 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10800	mg/Kg	100	10000	743	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	11600	mg/Kg	100	10000	743	108	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: 252325

QC Batch: 75952 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | 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: 252335

QC Batch: 75953 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	18500	mg/Kg	100	10000	8640	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	19700	mg/Kg	100	10000	8640	111	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: 252344

QC Batch: 75954 | Date Analyzed: 2010-12-07 | Analyzed By: AR
Prep Batch: 65131 | QC Preparation: 2010-12-07 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	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	104	85 - 115	4	20

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

Standard (ICV-1)

QC Batch: 75951 | Date Analyzed: 2010-12-07 | 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	2010-12-07

Standard (CCV-1)

QC Batch: 75951 | Date Analyzed: 2010-12-07 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2010-12-07

Standard (ICV-1)

QC Batch: 75952 Date Analyzed: 2010-12-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-12-07

Standard (CCV-1)

QC Batch: 75952 Date Analyzed: 2010-12-07 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	2010-12-07

Standard (ICV-1)

QC Batch: 75953 Date Analyzed: 2010-12-07 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	2010-12-07

Standard (CCV-1)

QC Batch: 75953 Date Analyzed: 2010-12-07 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2010-12-07

Standard (ICV-1)

QC Batch: 75954 Date Analyzed: 2010-12-07 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2010-12-07

Standard (CCV-1)

QC Batch: 75954 Date Analyzed: 2010-12-07 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	2010-12-07

KWO #: 10120602

KAD

Analysis Request of Chain of Custody Record

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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.: 114-6400679

PROJECT NAME: COG / Jenkins B Federal #13

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
252306	12/2		S		X	SB-1 0-1'	1				X													X				
307						SB-1 3'	1				X													X				
308						SB-1 5'	1				X													X				
309						SB-1 7'	1				X													X				
310						SB-1 10'	1				X													X				
311						SB-1 15'	1				X													X				
312						SB-1 20'	1				X													X				
313						SB-2 0-1'	1				X													X				
314						SB-2 3'	1				X													X				
315						SB-2 5'	1				X													X				

RELINQUISHED BY: (Signature)	Date: 12/3/10 Time: 16:40	RECEIVED BY: (Signature)	Date: 12/3/10 Time: 1640
SAMPLED BY: (Print & Initial) Kim	Date: 12/3/10 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:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.6c 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.

xwo #: 10120602

KAD

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.: 114-6400679

PROJECT NAME: COG / Jenkins B Federal #13 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
252316	12/2		S		X	SB-2 7'	1				X	
317						SB-2 10'	1				X	
318						SB-2 15'	1				X	
319						SB-2 20'	1				X	
320						SB-3 0-1'	1				X	
321						SB-3 3'	1				X	
322						SB-3 5'	1				X	
323						SB-3 7'	1				X	
324						SB-3 10'	1				X	
325						SB-3 15'	1				X	

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

RELINQUISHED BY: (Signature) — Date: 12/2/10 Time: 16:40

RECEIVED BY: (Signature) — Date: 12/3/10 Time: 16:40

SAMPLED BY: (Print & Initial) Kim — Date: 12/3/10 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:

TETRA TECH CONTACT PERSON: Ike Tavarez — Results by:

RECEIVING LABORATORY: — RECEIVED BY: (Signature)

ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE: 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.

ẋWO #: 10120602

MD

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.: 114-6400679

PROJECT NAME: CoG / Jenkins B Federal #13 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
252326	12/2		S		X	SB-3 20'	1				X	
327						SB-4 0-1'	1				X	
328						SB-4 3'	1				X	
329						SB-4 5'	1				X	
330						SB-4 10'	1				X	
331						SB-4 7'	1				X	
332						SB-4 15'	1				X	
333						SB-4 20'	1				X	
334						SB-5 0-1'	1				X	
335						SB-5 3'	1				X	

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. 8081/608; Chloride; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 12/3/10 Time: 16:40	RECEIVED BY: (Signature)	Date: 12/3/10 Time: 16:40
SAMPLED BY: (Print & Initial) Kim	Date: 12/3/10 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:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.6c 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.

KWO #: 10120602

KIAD KIAD

Analysis Request of Chain of Custody Record

PAGE: 4 OF: ~~4~~ 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.: 114-6100679

PROJECT NAME: COG / Jenkins B Federal #13

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
252336	12/2		S		X	SB-5 5'	1				X													X				
337						SB-5 7'	1				X													X				
338						SB-5 15'	1				X													X				
339						SB-5 20'	1				X													X				
340						SB-5 25'	1				X													X				
341						SB-5 30'	1				X													X				
342						SB-5 40'	1				X													X				
343						SB-5 50'	1				X													X				
344						SB-5 60'	1				X													X				

RELINQUISHED BY: (Signature) Date: 12/3/10 Time: 16:40

RECEIVED BY: (Signature) Date: 12/3/10 Time: 16:40

SAMPLED BY: (Print & Initial) Kim Date: 12/3/10 Time:

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:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY:

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

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.

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

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

Report Date: March 23, 2011

Work Order: 11031838

Project Location: Eddy County, NM
Project Name: COG/Jenkins B Federal #12
Project Number: 114-6400679

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
261104	CS-1	soil	2011-03-16	00:00	2011-03-18
261105	CS-2	soil	2011-03-16	00:00	2011-03-18
261106	CS-3	soil	2011-03-16	00:00	2011-03-18
261107	CS-4	soil	2011-03-16	00:00	2011-03-18
261108	CS-5	soil	2011-03-16	00:00	2011-03-18
261109	CS-6	soil	2011-03-16	00:00	2011-03-18
261110	CS-7	soil	2011-03-16	00:00	2011-03-18

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/Jenkins B Federal #12 were received by TraceAnalysis, Inc. on 2011-03-18 and assigned to work order 11031838. Samples for work order 11031838 were received intact at a temperature of 8.0 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	67557	2011-03-22 at 09:13	79664	2011-03-22 at 11:08
Chloride (Titration)	SM 4500-Cl B	67557	2011-03-22 at 09:13	79665	2011-03-22 at 11:08

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 11031838 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: 261104 - CS-1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79664	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**378**		mg/Kg	50	4.00

Sample: 261105 - CS-2

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79664	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1020**		mg/Kg	50	4.00

Sample: 261106 - CS-3

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79664	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**452**		mg/Kg	50	4.00

Sample: 261107 - CS-4

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79664	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

continued ...

sample 261107 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Sample: 261108 - CS-5

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79664	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

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

Sample: 261109 - CS-6

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79665	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

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

Sample: 261110 - CS-7

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	79665	Date Analyzed:	2011-03-22	Analyzed By:	AR
Prep Batch:	67557	Sample Preparation:	2011-03-22	Prepared By:	AR

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

Method Blank (1) QC Batch: 79664

QC Batch: 79664 | Date Analyzed: 2011-03-22 | Analyzed By: AR
Prep Batch: 67557 | QC Preparation: 2011-03-22 | Prepared By: AR

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

Method Blank (1) QC Batch: 79665

QC Batch: 79665 | Date Analyzed: 2011-03-22 | Analyzed By: AR
Prep Batch: 67557 | QC Preparation: 2011-03-22 | Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 79664 | Date Analyzed: 2011-03-22 | Analyzed By: AR
Prep Batch: 67557 | QC Preparation: 2011-03-22 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.7	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<3.85	104	85 - 115	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: 79665 | Date Analyzed: 2011-03-22 | Analyzed By: AR
Prep Batch: 67557 | QC Preparation: 2011-03-22 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.4	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<3.85	104	85 - 115	8	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: 261108

QC Batch: 79664 Date Analyzed: 2011-03-22 Analyzed By: AR
Prep Batch: 67557 QC Preparation: 2011-03-22 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9940	mg/Kg	100	10000	<385	99	80 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10600	mg/Kg	100	10000	<385	106	80 - 120	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: 261112

QC Batch: 79665 Date Analyzed: 2011-03-22 Analyzed By: AR
Prep Batch: 67557 QC Preparation: 2011-03-22 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	20900	mg/Kg	100	10000	10400	105	80 - 120

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	21700	mg/Kg	100	10000	10400	113	80 - 120	4	20

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

Standard (ICV-1)

QC Batch: 79664 Date Analyzed: 2011-03-22 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2011-03-22

Standard (CCV-1)

QC Batch: 79664 Date Analyzed: 2011-03-22 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	2011-03-22

Standard (ICV-1)

QC Batch: 79665 Date Analyzed: 2011-03-22 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	2011-03-22

Standard (CCV-1)

QC Batch: 79665 Date Analyzed: 2011-03-22 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2011-03-22

WO# 110318038

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

CLIENT NAME:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-6406674	COG / Jenkins B Federal #12 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
261104	3/11		S		X	CS-1	1				X	
105						CS-2						
106						CS-3						
107						CS-4						
108						CS-5						
109						CS-6						
110						CS-7						

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 X	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
											1	X				
											1					
											1					
											1					
											1					
											1					
											1					

RELINQUISHED BY: (Signature)	Date: 3/11/11 Time: 1100	RECEIVED BY: (Signature) TA	Date: 3/13/11 Time: 11:00
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: 3/11/11 Time:

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

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: 8.0 Intact

REMARKS: carry in

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