SITE INFORMATION

Report Type: Work Plan 2RP#512

General Site Information:						
Site:	Loco Hills SWD #35-1					
Company:	COG Operating LLC					
Section, Township and Range	Unit P	36	17S	30E		
Lease Number:	API-30-015-31635					
County:	Eddy County					
GPS:	32.78548° N			103.91982° W		
Surface Owner:	State					
Mineral Owner:						
Directions:	From Hwy 529 and Hwy 82 turn left on to Hwy 82 and travel 0.4 miles, turn left on Co Road 222 and travel 2.3 miles, turn right and travel 2.1 miles, turn right and travel 0.2 miles to site.					

RECEIVED
MAR 16 2011
NMOCD ARTESIA

Release Data:	
Date Released:	8/2/2010
Type Release:	Produced Water
Source of Contamination:	Fill line of SWD tanks
Fluid Released:	50 bbls
Fluids Recovered:	0 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) 661-9826
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

February 27, 2011

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

Re: Work Plan for the COG Operating LLC., Loco Hills SWD #35-1, Unit P, Section 36, 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 Loco Hills SWD #35-1 located in Unit P, Section 36, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.78548°, W 103.91982°. 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 2, 2010, and released approximately fifty (50) barrels of produced water from the 8" PVC slip joint. To alleviate the problem, COG personnel replaced the PVC fill line. Zero (0) barrels of standing fluids were recovered. The spill initiated inside of a lined facility and 1bbl of produced fluid was contained. The majority of fluids released outside the facility dike and migrated south in the pasture for a distance of approximately 330', with an average width of 3.0' wide and migrated into an area measuring approximately 135' x 190'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 36. According to the NMOCD groundwater map, the average depth to groundwater in this area appears to be greater than 300' below surface. The average depth to groundwater map is shown in Appendix A.

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

Regulatory

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

Soil Assessment and Analytical Results

On August 9, 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 B. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all the submitted samples were below RRAL for TPH and BTEX. The chloride impact was not vertically defined in the areas of AH-4, AH-5, AH-6, AH-7, AH-9, AH-10, and AH-11. The remaining auger holes were defined and showed a shallow impact to the soils.

On November 5, 2010, Tetra Tech personnel supervised the installation of a soil bores (SB-1 through SB-7) utilizing an air rotary drilling rig. The soil boring locations are shown in Figure 3. The area of AH-8 was not drilled due to access issues at the site. The soil borings were extended to a depth from 20' to 40' 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 sampling results are summarized in Table 1.

Referring to Table 1, all the soil borings installed were vertically defined. The soil borings (SB-1, SB-2, SB-3, SB-4, SB-6 and SB-7) did show a impact to the soil at depth ranging from 1.0' to 10.0' below surface. The

deepest chloride impact was encountered in the area of SB-5, with elevated chloride concentrations greater than 5,000 extending down to 15.0' and declining to 264 mg/kg at 25.0' below surface.

Work Plan

In order to remediate the site, COG proposes to excavate the impacted soils. The goal of the remediation is to establish surface growth and to reduce the environmental liabilities for the protection of the groundwater. For growth, a minimum of 4.0' of impacted soil will be removed from the spill area, if necessary. Concerns exist regarding a deep excavation plan. Since the impacted area is in the native sand dunes, the proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the depths are not reached, a 40 mil liner will be installed at depth of 4' to 5' below surface to cap the impacted area.

Tetra Tech proposes to supervise the removal of impacted material to the appropriate depth as highlighted in Table 1 and Figure 4. The excavation depths will range from 1.0' to 10.0' below surface. The excavated soil will be transported to proper disposal. Once the areas are excavated to the appropriate depths, the excavations will be backfilled with clean soil.

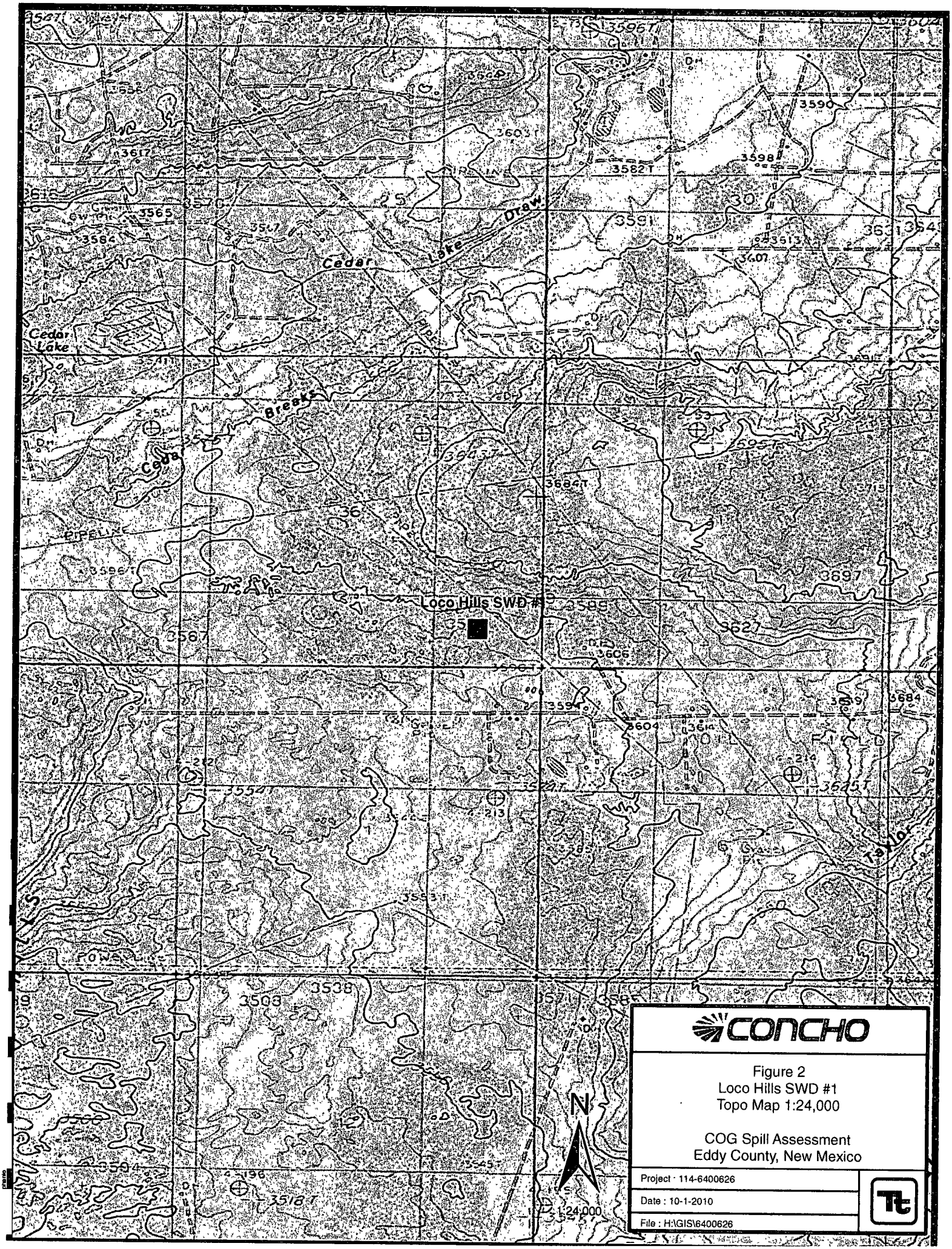
Upon completion a final report will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the work plan, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez
Project Manager

cc: Pat Ellis – COG

FIGURES

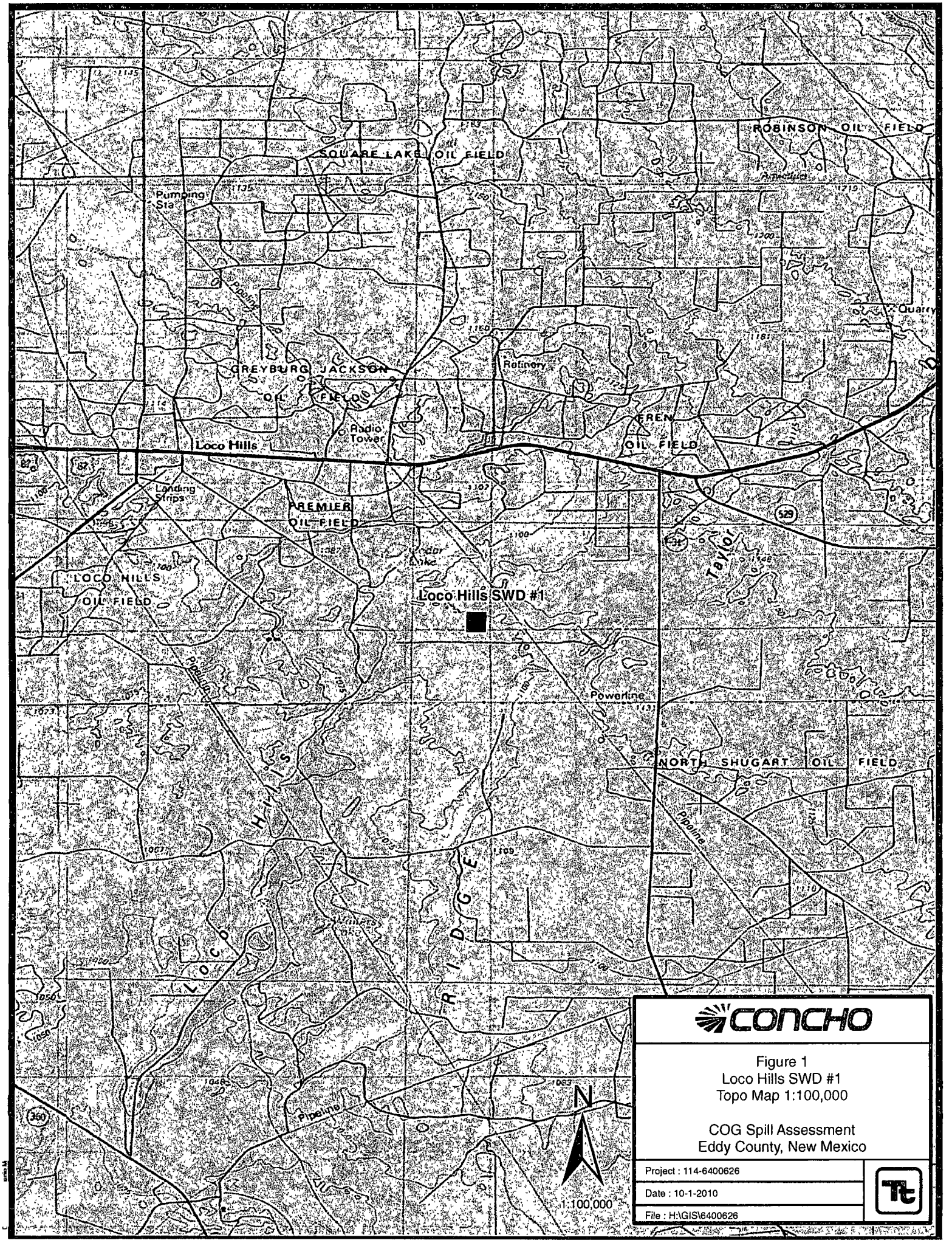


CONCHO

Figure 2
Loco Hills SWD #1
Topo Map 1:24,000

COG Spill Assessment
Eddy County, New Mexico

Project : 114-6400626	
Date : 10-1-2010	
File : H:\GIS\6400626	

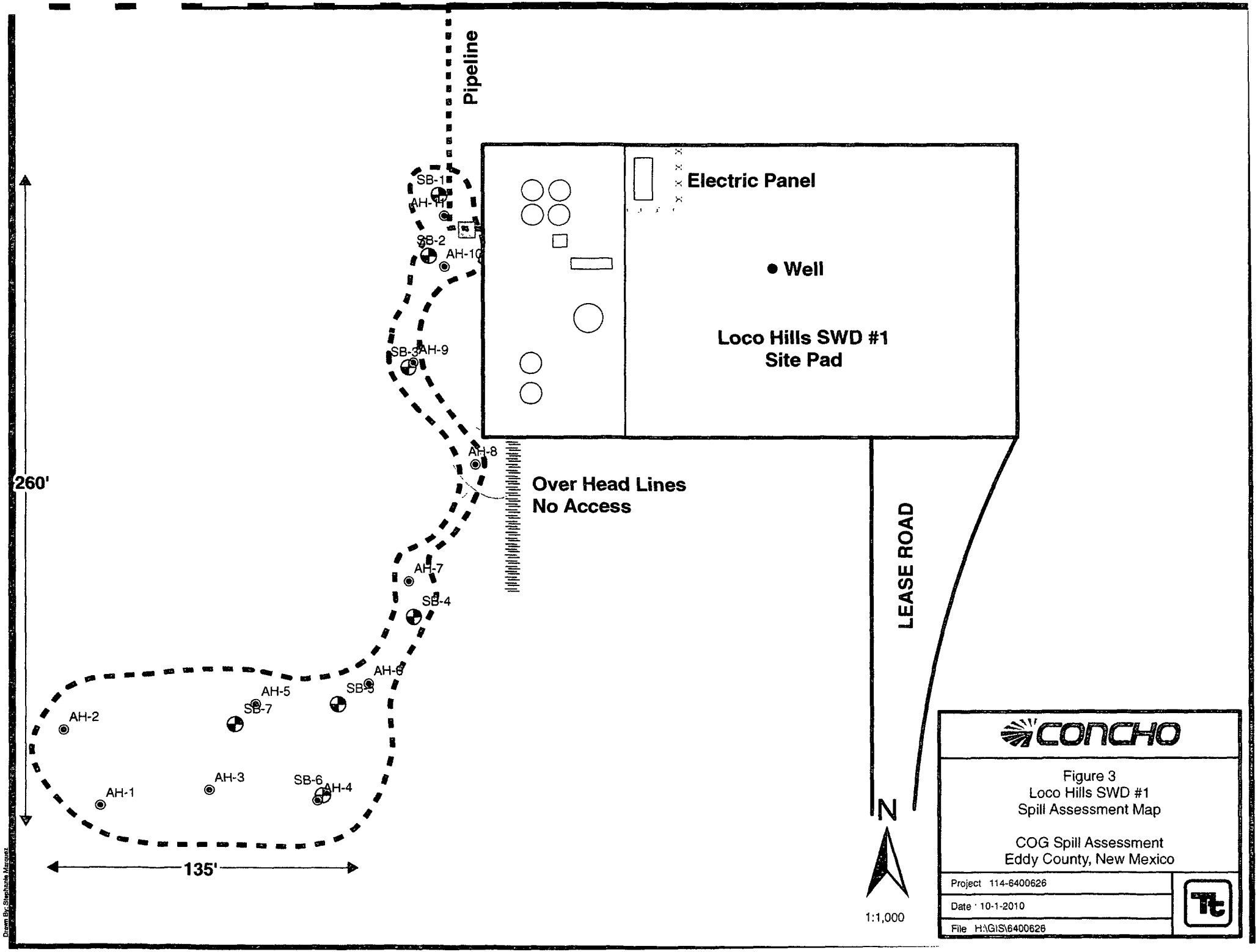


CONCHO

Figure 1
Loco Hills SWD #1
Topo Map 1:100,000

COG Spill Assessment
Eddy County, New Mexico

Project : 114-6400626	
Date : 10-1-2010	
File : H:\GIS\6400626	


Pipeline
Electric Panel
Well
Loco Hills SWD #1
Site Pad
SB-1
AH-11
SB-2
AH-10
SB-3
AH-9
AH-8
Over Head Lines
No Access
260'
AH-7
SB-4
AH-6
SB-5
AH-5
SB-7
AH-2
AH-3
SB-6
AH-4
AH-1
135'
LEASE ROAD
N
1:1,000
CONCHO
Figure 3
Loco Hills SWD #1
Spill Assessment Map
COG Spill Assessment
Eddy County, New Mexico
Project 114-6400626
Date 10-1-2010
File H:\GIS\6400626
Drawn By: Stephanie Marquez

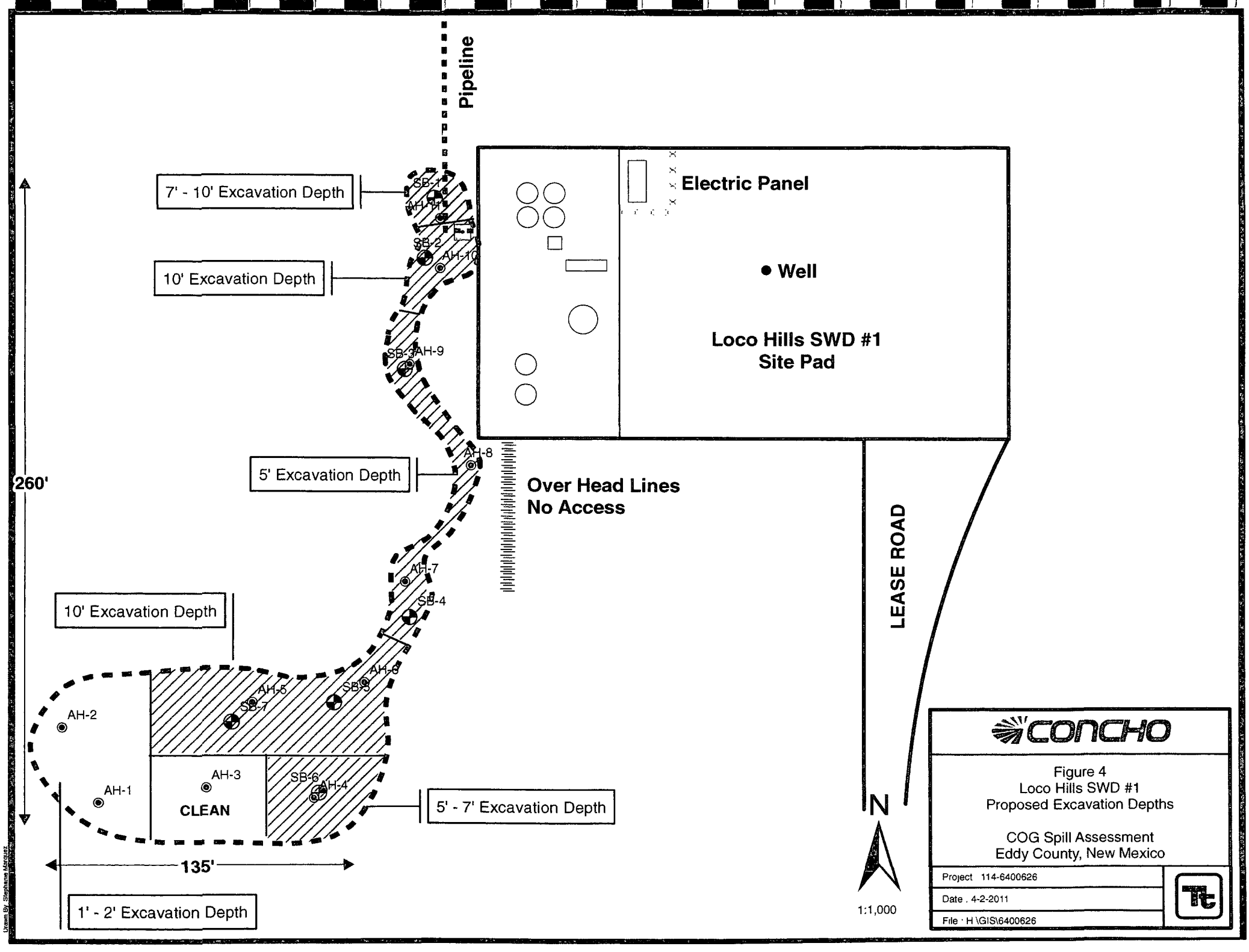

Pipeline
7' - 10' Excavation Depth
SB-1
AH-11
SB-2
AH-10
10' Excavation Depth
SB-9
AH-9
Electric Panel
Well
Loco Hills SWD #1
Site Pad
AH-8
5' Excavation Depth
260'
Over Head Lines
No Access
LEASE ROAD
AH-7
SB-4
10' Excavation Depth
AH-6
SB-5
AH-5
SB-7
AH-2
AH-3
SB-6
AH-4
AH-1
CLEAN
5' - 7' Excavation Depth
135'
1' - 2' Excavation Depth
N
1:1,000
CONCHO
Figure 4
Loco Hills SWD #1
Proposed Excavation Depths
COG Spill Assessment
Eddy County, New Mexico
Project 114-6400626
Date . 4-2-2011
File · H \GIS\6400626
Drawn By: Stephanie Marquez

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-1	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	5,100
	"	1-1.5'		X		-	-	-	-	-	-	-	2,830
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-2	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	8,070
	"	1-1.5'		X		-	-	-	-	-	-	-	4,030
	"	2-2.5'		X		-	-	-	-	-	-	-	398
	"	3-3.5'		X		-	-	-	-	-	-	-	<200
	"	4-4.5'		X		-	-	-	-	-	-	-	<200
AH-3	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
	"	1-1.5'		X		-	-	-	-	-	-	-	<200
	"	2-2.5'		X		-	-	-	-	-	-	-	<200
	"	3-3.5'		X		-	-	-	-	-	-	-	394
	"	4-4.5'		X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-4	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	9,370
	"	1-1.5'		X		-	-	-	-	-	-	-	10,300
	"	2-2.5'		X		-	-	-	-	-	-	-	12,200
	"	3-3.5'		X		-	-	-	-	-	-	-	16,800
	"	4-4.5'		X		-	-	-	-	-	-	-	19,900
	"	5-5.5'		X		-	-	-	-	-	-	-	5,840
	"	6-6.5'		X		-	-	-	-	-	-	-	553
	"	7-7.5'		X		-	-	-	-	-	-	-	207
	"	7.5-8'		X		-	-	-	-	-	-	-	1,600
BH-6	10/5/2010	0-1'		X		-	-	-	-	-	-	-	507
	"	3'		X		-	-	-	-	-	-	-	2,290
	"	5'		X		-	-	-	-	-	-	-	10,300
	"	7'		X		-	-	-	-	-	-	-	<200
		10'		X		-	-	-	-	-	-	-	<200
	"	15'		X		-	-	-	-	-	-	-	211
	"	20'		X		-	-	-	-	-	-	-	<200
	"	25'		X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
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	8/9/2010	0-1		X		<2.00	<50.0	<50.0	-	-	-	-	7,930
	"	1-1.5'		X		-	-	-	-	-	-	-	9,580
	"	1.5-2'		X		-	-	-	-	-	-	-	14,300
BH-7	10/5/2010	0-1'		X		-	-	-	-	-	-	-	<200
	"	3'		X		-	-	-	-	-	-	-	<200
	"	5'		X		-	-	-	-	-	-	-	1,740
	"	7'		X		-	-	-	-	-	-	-	6,850
	"	10'		X		-	-	-	-	-	-	-	3,750
	"	15'		X		-	-	-	-	-	-	-	338
	"	20'		X		-	-	-	-	-	-	-	<200
	"	25'		X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
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-6	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	8,810
	"	1-1.5'		X		-	-	-	-	-	-	-	9,980
	"	2-2.5'		X		-	-	-	-	-	-	-	8,630
	"	3-3.5'		X		-	-	-	-	-	-	-	14,800
BH-5	10/5/2010	0-1'		X		-	-	-	-	-	-	-	348
	"	3'		X		-	-	-	-	-	-	-	<200
	"	5'		X		-	-	-	-	-	-	-	278
	"	7'		X		-	-	-	-	-	-	-	9,020
	"	10'		X		-	-	-	-	-	-	-	2,160
	"	15'		X		-	-	-	-	-	-	-	5,740
	"	20'		X		-	-	-	-	-	-	-	3,440
	"	25'		X		-	-	-	-	-	-	-	264
	"	30'		X		-	-	-	-	-	-	-	259
	"	40'		X		-	-	-	-	-	-	-	<200

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
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-7	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	18,400
	"	1-1.5'		X		-	-	-	-	-	-	-	18,700
	"	2-2.5'		X		-	-	-	-	-	-	-	19,900
BH-4	10/5/2010	0-1'		X		-	-	-	-	-	-	-	248
	"	3'		X		-	-	-	-	-	-	-	283
	"	5'		X		-	-	-	-	-	-	-	1,170
	"	7'		X		-	-	-	-	-	-	-	<200
	"	10'		X		-	-	-	-	-	-	-	<200
	"	15'		X		-	-	-	-	-	-	-	<200
	"	20'		X		-	-	-	-	-	-	-	<200
AH-8	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	11,500
	"	1-1.5'		X		-	-	-	-	-	-	-	10,800
	"	2-2.5'		X		-	-	-	-	-	-	-	20,600
	"	3-3.5'		X		-	-	-	-	-	-	-	18,200
	"	4-4.5'		X		-	-	-	-	-	-	-	3,330

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
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	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	10,300
	"	1-1.5'		X		-	-	-	-	-	-	-	10,800
	"	1.5-2'		X		-	-	-	-	-	-	-	22,700
BH-3	10/5/2010	0-1'		X		-	-	-	-	-	-	-	<200
	"	3'		X		-	-	-	-	-	-	-	1,490
	"	5'		X		-	-	-	-	-	-	-	16,200
	"	7'		X		-	-	-	-	-	-	-	602
		10'		X		-	-	-	-	-	-	-	<200
AH-10	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	7,830
	"	1-1.5'		X		-	-	-	-	-	-	-	8,630
	"	2-2.5'		X		-	-	-	-	-	-	-	8,610
BH-2	10/5/2010	0-1'		X		-	-	-	-	-	-	-	<200
	"	3'		X		-	-	-	-	-	-	-	2,950
	"	5'		X		-	-	-	-	-	-	-	16,200
	"	7'		X		-	-	-	-	-	-	-	8,150
	"	10'		X		-	-	-	-	-	-	-	7,810
	"	15'		X		-	-	-	-	-	-	-	1,240
	"	20'		X		-	-	-	-	-	-	-	697
	"	25'		X		-	-	-	-	-	-	-	464
	"	30'		X		-	-	-	-	-	-	-	409
	"	40'		X		-	-	-	-	-	-	-	202

Table 1
COG Operating LLC.
LOCO HILLS SWD #35-1
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-11	8/9/2010	0-1'		X		<2.00	<50.0	<50.0	-	-	-	-	9,190
	"	1-1.5'		X		-	-	-	-	-	-	-	6,140
	"	2-2.5'		X		-	-	-	-	-	-	-	5,940
	"	3-3.5'		X		-	-	-	-	-	-	-	7,930
	"	4-4.5'		X		-	-	-	-	-	-	-	9,820
	"	5-5.5'		X		-	-	-	-	-	-	-	22,800
	"	6-6.5'		X		-	-	-	-	-	-	-	24,200
	"	7-7.5'		X		-	-	-	-	-	-	-	10,400
	"	8-8.5'		X		-	-	-	-	-	-	-	8,460
BH-1	10/5/2010	0-1'		X		-	-	-	-	-	-	-	<200
	"	3'		X		-	-	-	-	-	-	-	<200
	"	5'		X		-	-	-	-	-	-	-	8,530
	"	7'		X		-	-	-	-	-	-	-	15,200
	"	10'		X		-	-	-	-	-	-	-	<200
	"	15'		X		-	-	-	-	-	-	-	497
	"	20'		X		-	-	-	-	-	-	-	<200
	"	25'		X		-	-	-	-	-	-	-	<200
	"	30'		X		-	-	-	-	-	-	-	<200

BEB Below Excavation Bottom

(--) Not Analyzed

Proposed Excavation Depths

APPENDIX A

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

State of New Mexico
Energy Minerals and Natural Resources

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

2RR 512

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	Loco Hills SWD #35-1	Facility Type	SWD

Surface Owner State	Mineral Owner	Lease No. (API#) 30-015-31635

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	36	17S	30E	660	SOUTH	860	EAST	EDDY

Latitude 32 47.132 **Longitude** 103 55.209

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 50bbls	Volume Recovered 0bbls
Source of Release Fill line of SWD tanks	Date and Hour of Occurrence 08/02/2010	Date and Hour of Discovery 08/02/2010 2:30 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher—OCD	
By Whom? Josh Russo	Date and Hour 08/03/2010 3:04 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

8" PVC slip joint broke off of the 8" inlet auto valve. All repairs on the PVC fill line have been made.

Describe Area Affected and Cleanup Action Taken.*

Initially 50bbls of produced water was released from the fill line at the SWD tanks. 1bbl of the produced water was contained inside the lined facility walls. The contaminated gravel was removed and replaced with clean gravel. The other 49bbls were released outside of the dike wall and ran west of dike and off location with a total spill area of 3 yards x 150 yards. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan the to NMOCD for approval prior to any significant remediation work.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Josh Russo	Approved by District Supervisor:
Title: HSE Coordinator	Approval Date: / Expiration Date:
E-mail Address: jrusso@concheresources.com	Conditions of Approval: / Attached ☐
Date: 08/11/2010 Phone: 432-212-2399	

Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG - Loco Hills SWD #35-1
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
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31 **290**	32	33	34	35

17 South 29 East

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

17 South 30 East

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

17 South 31 East

6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22 **SITE**	23
30	29	28	27	26
31	32	33	34 **271**	35

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
7	8	9	10	11
18	17	16	15	14 **317**
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35 **261**

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

APPENDIX C

Summary Report

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

Report Date: August 25, 2010

Work Order: 10081702

Project Location: Eddy County, NM
Project Name: COG/Loco Hills SWD #1
Project Number: 114-6400626

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241383	AH-1 0-1'	soil	2010-08-09	00:00	2010-08-13
241384	AH-1 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241385	AH-1 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241386	AH-1 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241387	AH-1 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241388	AH-2 0-1'	soil	2010-08-09	00:00	2010-08-13
241389	AH-2 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241390	AH-2 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241391	AH-2 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241392	AH-2 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241393	AH-3 0-1'	soil	2010-08-09	00:00	2010-08-13
241394	AH-3 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241395	AH-3 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241396	AH-3 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241397	AH-3 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241398	AH-4 0-1'	soil	2010-08-09	00:00	2010-08-13
241399	AH-4 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241400	AH-4 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241401	AH-4 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241402	AH-4 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241403	AH-4 5-5.5'	soil	2010-08-09	00:00	2010-08-13
241404	AH-4 6-6.5'	soil	2010-08-09	00:00	2010-08-13
241405	AH-4 7-7.5'	soil	2010-08-09	00:00	2010-08-13
241406	AH-4 7.5-8'	soil	2010-08-09	00:00	2010-08-13
241407	AH-5 0-1'	soil	2010-08-09	00:00	2010-08-13
241408	AH-5 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241409	AH-5 1.5-2'	soil	2010-08-09	00:00	2010-08-13
241410	AH-6 0-1'	soil	2010-08-09	00:00	2010-08-13
241411	AH-6 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241412	AH-6 2-2.5'	soil	2010-08-09	00:00	2010-08-13

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241413	AH-6 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241414	AH-7 0-1'	soil	2010-08-09	00:00	2010-08-13
241415	AH-7 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241416	AH-7 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241417	AH-8 0-1'	soil	2010-08-09	00:00	2010-08-13
241418	AH-8 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241419	AH-8 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241420	AH-8 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241421	AH-8 4-4.5.'	soil	2010-08-09	00:00	2010-08-13
241422	AH-9 0-1'	soil	2010-08-09	00:00	2010-08-13
241423	AH-9 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241424	AH-9 1.5-2'	soil	2010-08-09	00:00	2010-08-13
241425	AH-10 0-1'	soil	2010-08-09	00:00	2010-08-13
241426	AH-10 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241427	AH-10 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241428	AH-11 0-1'	soil	2010-08-09	00:00	2010-08-13
241429	AH-11 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241430	AH-11 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241431	AH-11 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241432	AH-11 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241433	AH-11 5-5.5'	soil	2010-08-09	00:00	2010-08-13
241434	AH-11 6-6.5'	soil	2010-08-09	00:00	2010-08-13
241435	AH-11 7-7.5'	soil	2010-08-09	00:00	2010-08-13
241436	AH-11 8-8.5'	soil	2010-08-09	00:00	2010-08-13

	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)
241383 - AH-1 0-1'					<50.0	<2.00
241388 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241393 - AH-3 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241398 - AH-4 0-1'					<50.0	<2.00
241407 - AH-5 0-1'					<50.0	<2.00
241410 - AH-6 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241414 - AH-7 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241417 - AH-8 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241422 - AH-9 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241425 - AH-10 0-1'					<50.0	<2.00
241428 - AH-11 0-1'					<50.0	<2.00

Sample: 241383 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**5100**	mg/Kg	4.00

Sample: 241384 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**2830**	mg/Kg	4.00

Sample: 241385 - AH-1 2-2.5'

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

Sample: 241386 - AH-1 3-3.5'

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

Sample: 241387 - AH-1 4-4.5'

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

Sample: 241388 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		**8070**	mg/Kg	4.00

Sample: 241389 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**4030**	mg/Kg	4.00

Sample: 241390 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**398**	mg/Kg	4.00

Sample: 241391 - AH-2 3-3.5'

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

Sample: 241392 - AH-2 4-4.5'

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

Sample: 241393 - AH-3 0-1'

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

Sample: 241394 - AH-3 1-1.5'

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

Sample: 241395 - AH-3 2-2.5'

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

Sample: 241396 - AH-3 3-3.5'

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

Sample: 241397 - AH-3 4-4.5'

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

Sample: 241398 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**9370**	mg/Kg	4.00

Sample: 241399 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**10300**	mg/Kg	4.00

Sample: 241400 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**12200**	mg/Kg	4.00

Sample: 241401 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**16800**	mg/Kg	4.00

Sample: 241402 - AH-4 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**19900**	mg/Kg	4.00

Sample: 241403 - AH-4 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**5840**	mg/Kg	4.00

Sample: 241404 - AH-4 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**553**	mg/Kg	4.00

Sample: 241405 - AH-4 7-7.5'

Param	Flag	Result	Units	RL
Chloride		**207**	mg/Kg	4.00

Sample: 241406 - AH-4 7.5-8'

Param	Flag	Result	Units	RL
Chloride		**1600**	mg/Kg	4.00

Sample: 241407 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**7930**	mg/Kg	4.00

Sample: 241408 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**9580**	mg/Kg	4.00

Sample: 241409 - AH-5 1.5-2'

Param	Flag	Result	Units	RL
Chloride		**14300**	mg/Kg	4.00

Sample: 241410 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**8810**	mg/Kg	4.00

Sample: 241411 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**9980**	mg/Kg	4.00

Sample: 241412 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**5630**	mg/Kg	4.00

Sample: 241413 - AH-6 3-3.5'

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

Sample: 241414 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		**18400**	mg/Kg	4.00

Sample: 241415 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**18700**	mg/Kg	4.00

Sample: 241416 - AH-7 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**19900**	mg/Kg	4.00

Sample: 241417 - AH-8 0-1'

Param	Flag	Result	Units	RL
Chloride		**11500**	mg/Kg	4.00

Sample: 241418 - AH-8 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**10800**	mg/Kg	4.00

Sample: 241419 - AH-8 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**20600**	mg/Kg	4.00

Sample: 241420 - AH-8 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**18200**	mg/Kg	4.00

Sample: 241421 - AH-8 4-4.5.'

Param	Flag	Result	Units	RL
Chloride		**3330**	mg/Kg	4.00

Sample: 241422 - AH-9 0-1'

Param	Flag	Result	Units	RL
Chloride		**10300**	mg/Kg	4.00

Sample: 241423 - AH-9 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**10800**	mg/Kg	4.00

Sample: 241424 - AH-9 1.5-2'

Param	Flag	Result	Units	RL
Chloride		**22700**	mg/Kg	4.00

Sample: 241425 - AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		**7830**	mg/Kg	4.00

Sample: 241426 - AH-10 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**8630**	mg/Kg	4.00

Sample: 241427 - AH-10 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**8610**	mg/Kg	4.00

Sample: 241428 - AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		**9190**	mg/Kg	4.00

Sample: 241429 - AH-11 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**6140**	mg/Kg	4.00

Sample: 241430 - AH-11 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**5940**	mg/Kg	4.00

Sample: 241431 - AH-11 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**7930**	mg/Kg	4.00

Sample: 241432 - AH-11 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**9820**	mg/Kg	4.00

Sample: 241433 - AH-11 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**22800**	mg/Kg	4.00

Sample: 241434 - AH-11 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**24200**	mg/Kg	4.00

Sample: 241435 - AH-11 7-7.5'

Param	Flag	Result	Units	RL
Chloride		**10400**	mg/Kg	4.00

Sample: 241436 - AH-11 8-8.5'

Param	Flag	Result	Units	RL
Chloride		**8460**	mg/Kg	4.00

Summary Report

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

Report Date: October 14, 2010

Work Order: 10100710

Project Location: Eddy County, NM
Project Name: COG/Loco Hills SWD #35
Project Number: 114-6400626

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
246843	BH-1 0-1'	soil	2010-10-05	00:00	2010-10-07
246844	BH-1 3'	soil	2010-10-05	00:00	2010-10-07
246845	BH-1 5'	soil	2010-10-05	00:00	2010-10-07
246846	BH-1 7'	soil	2010-10-05	00:00	2010-10-07
246847	BH-1 10'	soil	2010-10-05	00:00	2010-10-07
246848	BH-1 15'	soil	2010-10-05	00:00	2010-10-07
246849	BH-1 20'	soil	2010-10-05	00:00	2010-10-07
246850	BH-1 25'	soil	2010-10-05	00:00	2010-10-07
246851	BH-1 30'	soil	2010-10-05	00:00	2010-10-07
246853	BH-2 0-1'	soil	2010-10-05	00:00	2010-10-07
246854	BH-2 3'	soil	2010-10-05	00:00	2010-10-07
246855	BH-2 5'	soil	2010-10-05	00:00	2010-10-07
246856	BH-2 7'	soil	2010-10-05	00:00	2010-10-07
246857	BH-2 10'	soil	2010-10-05	00:00	2010-10-07
246858	BH-2 15'	soil	2010-10-05	00:00	2010-10-07
246859	BH-2 20'	soil	2010-10-05	00:00	2010-10-07
246860	BH-2 25'	soil	2010-10-05	00:00	2010-10-07
246861	BH-2 30'	soil	2010-10-05	00:00	2010-10-07
246862	BH-2 40'	soil	2010-10-05	00:00	2010-10-07
246864	BH-3 0-1'	soil	2010-10-05	00:00	2010-10-07
246865	BH-3 3'	soil	2010-10-05	00:00	2010-10-07
246866	BH-3 5'	soil	2010-10-05	00:00	2010-10-07
246867	BH-3 7'	soil	2010-10-05	00:00	2010-10-07
246868	BH-3 10'	soil	2010-10-05	00:00	2010-10-07
246871	BH-4 0-1'	soil	2010-10-05	00:00	2010-10-07
246872	BH-4 3'	soil	2010-10-05	00:00	2010-10-07
246873	BH-4 5'	soil	2010-10-05	00:00	2010-10-07
246874	BH-4 7'	soil	2010-10-05	00:00	2010-10-07
246875	BH-4 10'	soil	2010-10-05	00:00	2010-10-07
246876	BH-4 15'	soil	2010-10-05	00:00	2010-10-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
246877	BH-4 20'	soil	2010-10-05	00:00	2010-10-07
246878	BH-5 0-1'	soil	2010-10-05	00:00	2010-10-07
246879	BH-5 3'	soil	2010-10-05	00:00	2010-10-07
246880	BH-5 5'	soil	2010-10-05	00:00	2010-10-07
246881	BH-5 7'	soil	2010-10-05	00:00	2010-10-07
246882	BH-5 10'	soil	2010-10-05	00:00	2010-10-07
246883	BH-5 15'	soil	2010-10-05	00:00	2010-10-07
246884	BH-5 20'	soil	2010-10-05	00:00	2010-10-07
246885	BH-5 25'	soil	2010-10-05	00:00	2010-10-07
246886	BH-5 30'	soil	2010-10-05	00:00	2010-10-07
246887	BH-5 40'	soil	2010-10-05	00:00	2010-10-07
246889	BH-6 0-1'	soil	2010-10-05	00:00	2010-10-07
246890	BH-6 3'	soil	2010-10-05	00:00	2010-10-07
246891	BH-6 5'	soil	2010-10-05	00:00	2010-10-07
246892	BH-6 7'	soil	2010-10-05	00:00	2010-10-07
246893	BH-6 10'	soil	2010-10-05	00:00	2010-10-07
246894	BH-6 15'	soil	2010-10-05	00:00	2010-10-07
246895	BH-6 20'	soil	2010-10-05	00:00	2010-10-07
246896	BH-6 25'	soil	2010-10-05	00:00	2010-10-07
246897	BH-7 0-1'	soil	2010-10-05	00:00	2010-10-07
246898	BH-7 3'	soil	2010-10-05	00:00	2010-10-07
246899	BH-7 5'	soil	2010-10-05	00:00	2010-10-07
246900	BH-7 7'	soil	2010-10-05	00:00	2010-10-07
246901	BH-7 10'	soil	2010-10-05	00:00	2010-10-07
246902	BH-7 15'	soil	2010-10-05	00:00	2010-10-07
246903	BH-7 20'	soil	2010-10-05	00:00	2010-10-07
246904	BH-7 25'	soil	2010-10-05	00:00	2010-10-07

Sample: 246843 - BH-1 0-1'

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

Sample: 246844 - BH-1 3'

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

Sample: 246845 - BH-1 5'

Param	Flag	Result	Units	RL
Chloride		**8530**	mg/Kg	4.00

Sample: 246846 - BH-1 7'

Param	Flag	Result	Units	RL
Chloride		**15200**	mg/Kg	4.00

Sample: 246847 - BH-1 10'

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

Sample: 246848 - BH-1 15'

Param	Flag	Result	Units	RL
Chloride		**497**	mg/Kg	4.00

Sample: 246849 - BH-1 20'

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

Sample: 246850 - BH-1 25'

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

Sample: 246851 - BH-1 30'

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

Sample: 246853 - BH-2 0-1'

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

Sample: 246854 - BH-2 3'

Param	Flag	Result	Units	RL
Chloride		**2950**	mg/Kg	4.00

Sample: 246855 - BH-2 5'

Param	Flag	Result	Units	RL
Chloride		**16200**	mg/Kg	4.00

Sample: 246856 - BH-2 7'

Param	Flag	Result	Units	RL
Chloride		**8150**	mg/Kg	4.00

Sample: 246857 - BH-2 10'

Param	Flag	Result	Units	RL
Chloride		**7810**	mg/Kg	4.00

Sample: 246858 - BH-2 15'

Param	Flag	Result	Units	RL
Chloride		**1240**	mg/Kg	4.00

Sample: 246859 - BH-2 20'

Param	Flag	Result	Units	RL
Chloride		**697**	mg/Kg	4.00

Sample: 246860 - BH-2 25'

Param	Flag	Result	Units	RL
Chloride		**464**	mg/Kg	4.00

Sample: 246861 - BH-2 30'

Param	Flag	Result	Units	RL
Chloride		**409**	mg/Kg	4.00

Sample: 246862 - BH-2 40'

Param	Flag	Result	Units	RL
Chloride		**202**	mg/Kg	4.00

Sample: 246864 - BH-3 0-1'

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

Sample: 246865 - BH-3 3'

Param	Flag	Result	Units	RL
Chloride		**1490**	mg/Kg	4.00

Sample: 246866 - BH-3 5'

Param	Flag	Result	Units	RL
Chloride		**16200**	mg/Kg	4.00

Sample: 246867 - BH-3 7'

Param	Flag	Result	Units	RL
Chloride		**602**	mg/Kg	4.00

Sample: 246868 - BH-3 10'

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

Sample: 246871 - BH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**248**	mg/Kg	4.00

Sample: 246872 - BH-4 3'

Param	Flag	Result	Units	RL
Chloride		**283**	mg/Kg	4.00

Sample: 246873 - BH-4 5'

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

Sample: 246874 - BH-4 7'

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

Sample: 246875 - BH-4 10'

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

Sample: 246876 - BH-4 15'

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

Sample: 246877 - BH-4 20'

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

Sample: 246878 - BH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**348**	mg/Kg	4.00

Sample: 246879 - BH-5 3'

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

Sample: 246880 - BH-5 5'

Param	Flag	Result	Units	RL
Chloride		**278**	mg/Kg	4.00

Sample: 246881 - BH-5 7'

Param	Flag	Result	Units	RL
Chloride		**9020**	mg/Kg	4.00

Sample: 246882 - BH-5 10'

Param	Flag	Result	Units	RL
Chloride		**2160**	mg/Kg	4.00

Sample: 246883 - BH-5 15'

Param	Flag	Result	Units	RL
Chloride		**5740**	mg/Kg	4.00

Sample: 246884 - BH-5 20'

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

Sample: 246885 - BH-5 25'

Param	Flag	Result	Units	RL
Chloride		**264**	mg/Kg	4.00

Sample: 246886 - BH-5 30'

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

Sample: 246887 - BH-5 40'

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

Sample: 246889 - BH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**507**	mg/Kg	4.00

Sample: 246890 - BH-6 3'

Param	Flag	Result	Units	RL
Chloride		**2290**	mg/Kg	4.00

Sample: 246891 - BH-6 5'

Param	Flag	Result	Units	RL
Chloride		**10300**	mg/Kg	4.00

Sample: 246892 - BH-6 7'

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

Sample: 246893 - BH-6 10'

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

Sample: 246894 - BH-6 15'

Param	Flag	Result	Units	RL
Chloride		**211**	mg/Kg	4.00

Sample: 246895 - BH-6 20'

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

Sample: 246896 - BH-6 25'

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

Sample: 246897 - BH-7 0-1'

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

Sample: 246898 - BH-7 3'

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

Sample: 246899 - BH-7 5'

Param	Flag	Result	Units	RL
Chloride		**1740**	mg/Kg	4.00

Sample: 246900 - BH-7 7'

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

Sample: 246901 - BH-7 10'

Param	Flag	Result	Units	RL
Chloride		**3750**	mg/Kg	4.00

Sample: 246902 - BH-7 15'

Param	Flag	Result	Units	RL
Chloride		**338**	mg/Kg	4.00

Sample: 246903 - BH-7 20'

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

Sample: 246904 - BH-7 25'

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

TRACEANALYSIS, INC.

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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

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

Report Date: August 25, 2010

Work Order: 10081702

Project Location: Eddy County, NM
Project Name: COG/Loco Hills SWD #1
Project Number: 114-6400626

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
241383	AH-1 0-1'	soil	2010-08-09	00:00	2010-08-13
241384	AH-1 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241385	AH-1 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241386	AH-1 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241387	AH-1 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241388	AH-2 0-1'	soil	2010-08-09	00:00	2010-08-13
241389	AH-2 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241390	AH-2 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241391	AH-2 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241392	AH-2 4-4.5'	soil	2010-08-09	00:00	2010-08-13

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241393	AH-3 0-1'	soil	2010-08-09	00:00	2010-08-13
241394	AH-3 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241395	AH-3 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241396	AH-3 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241397	AH-3 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241398	AH-4 0-1'	soil	2010-08-09	00:00	2010-08-13
241399	AH-4 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241400	AH-4 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241401	AH-4 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241402	AH-4 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241403	AH-4 5-5.5'	soil	2010-08-09	00:00	2010-08-13
241404	AH-4 6-6.5'	soil	2010-08-09	00:00	2010-08-13
241405	AH-4 7-7.5'	soil	2010-08-09	00:00	2010-08-13
241406	AH-4 7.5-8'	soil	2010-08-09	00:00	2010-08-13
241407	AH-5 0-1'	soil	2010-08-09	00:00	2010-08-13
241408	AH-5 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241409	AH-5 1.5-2'	soil	2010-08-09	00:00	2010-08-13
241410	AH-6 0-1'	soil	2010-08-09	00:00	2010-08-13
241411	AH-6 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241412	AH-6 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241413	AH-6 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241414	AH-7 0-1'	soil	2010-08-09	00:00	2010-08-13
241415	AH-7 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241416	AH-7 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241417	AH-8 0-1'	soil	2010-08-09	00:00	2010-08-13
241418	AH-8 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241419	AH-8 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241420	AH-8 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241421	AH-8 4-4.5.'	soil	2010-08-09	00:00	2010-08-13
241422	AH-9 0-1'	soil	2010-08-09	00:00	2010-08-13
241423	AH-9 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241424	AH-9 1.5-2'	soil	2010-08-09	00:00	2010-08-13
241425	AH-10 0-1'	soil	2010-08-09	00:00	2010-08-13
241426	AH-10 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241427	AH-10 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241428	AH-11 0-1'	soil	2010-08-09	00:00	2010-08-13
241429	AH-11 1-1.5'	soil	2010-08-09	00:00	2010-08-13
241430	AH-11 2-2.5'	soil	2010-08-09	00:00	2010-08-13
241431	AH-11 3-3.5'	soil	2010-08-09	00:00	2010-08-13
241432	AH-11 4-4.5'	soil	2010-08-09	00:00	2010-08-13
241433	AH-11 5-5.5'	soil	2010-08-09	00:00	2010-08-13
241434	AH-11 6-6.5'	soil	2010-08-09	00:00	2010-08-13
241435	AH-11 7-7.5'	soil	2010-08-09	00:00	2010-08-13
241436	AH-11 8-8.5'	soil	2010-08-09	00:00	2010-08-13

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

This report consists of a total of 45 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Standard Flags

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

Case Narrative

Samples for project COG/Loco Hills SWD #1 were received by TraceAnalysis, Inc. on 2010-08-13 and assigned to work order 10081702. Samples for work order 10081702 were received intact at a temperature of 18.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	62422	2010-08-20 at 12:00	72835	2010-08-21 at 17:17
Chloride (Titration)	SM 4500-Cl B	62375	2010-08-19 at 08:53	72752	2010-08-19 at 15:57
Chloride (Titration)	SM 4500-Cl B	62376	2010-08-19 at 08:53	72753	2010-08-19 at 15:58
Chloride (Titration)	SM 4500-Cl B	62377	2010-08-19 at 08:54	72754	2010-08-19 at 15:59
Chloride (Titration)	SM 4500-Cl B	62379	2010-08-19 at 08:54	72755	2010-08-19 at 16:00
Chloride (Titration)	SM 4500-Cl B	62380	2010-08-19 at 08:55	72831	2010-08-23 at 14:42
Chloride (Titration)	SM 4500-Cl B	62441	2010-08-23 at 09:03	72832	2010-08-23 at 14:43
TPH DRO - NEW	S 8015 D	62398	2010-08-19 at 10:46	72775	2010-08-19 at 10:46
TPH DRO - NEW	S 8015 D	62428	2010-08-20 at 13:56	72812	2010-08-20 at 13:56
TPH GRO	S 8015 D	62422	2010-08-20 at 12:00	72808	2010-08-21 at 17:46
TPH GRO	S 8015 D	62423	2010-08-21 at 17:00	72815	2010-08-22 at 11:05

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 10081702 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

Samples were received on ice.

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

Analytical Report

Sample: 241383 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**5100**		mg/Kg	100	4.00

Sample: 241383 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

Sample: 241383 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.10	mg/Kg	1	2.00	55	48.5 - 152
4-Bromofluorobenzene (4-BFB)		0.847	mg/Kg	1	2.00	42	42 - 159

Sample: 241384 - AH-1 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2830**	mg/Kg	100	4.00

Sample: 241385 - AH-1 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241386 - AH-1 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241387 - AH-1 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241388 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.64	mg/Kg	1	2.00	82	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	1	2.00	72	38.4 - 157

Sample: 241388 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**8070**		mg/Kg	100	4.00

Sample: 241388 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	70 - 130

Sample: 241388 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.81	mg/Kg	1	2.00	90	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	1	2.00	77	42 - 159

Sample: 241389 - AH-2 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4030**		mg/Kg	100	4.00

Sample: 241390 - AH-2 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**398**		mg/Kg	50	4.00

Sample: 241391 - AH-2 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241392 - AH-2 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241393 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.87	mg/Kg	1	2.00	94	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.64	mg/Kg	1	2.00	82	38.4 - 157

Sample: 241393 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241393 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

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

Sample: 241393 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		2.05	mg/Kg	1	2.00	102	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	42 - 159

Sample: 241394 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241395 - AH-3 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241396 - AH-3 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241397 - AH-3 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241398 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241398 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

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

Sample: 241398 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.06	mg/Kg	1	2.00	53	48.5 - 152
4-Bromofluorobenzene (4-BFB)		0.917	mg/Kg	1	2.00	46	42 - 159

Sample: 241399 - AH-4 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**10300**		mg/Kg	100	4.00

Sample: 241400 - AH-4 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**12200**	mg/Kg	100	4.00

Sample: 241401 - AH-4 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**16800**	mg/Kg	100	4.00

Sample: 241402 - AH-4 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**19900**	mg/Kg	100	4.00

Sample: 241403 - AH-4 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5840**	mg/Kg	100	4.00

Sample: 241404 - AH-4 6-6.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**553**	mg/Kg	50	4.00

Sample: 241405 - AH-4 7-7.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**207**	mg/Kg	50	4.00

Sample: 241406 - AH-4 7.5-8'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1600**	mg/Kg	100	4.00

Sample: 241407 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**7930**	mg/Kg	100	4.00

Sample: 241407 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		106	mg/Kg	1	100	106	70 - 130

Sample: 241407 - AH-5 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.01	mg/Kg	1	2.00	50	48.5 - 152
4-Bromofluorobenzene (4-BFB)		0.834	mg/Kg	1	2.00	42	42 - 159

Sample: 241408 - AH-5 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9580**	mg/Kg	100	4.00

Sample: 241409 - AH-5 1.5-2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**14300**	mg/Kg	100	4.00

Sample: 241410 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		2.01	mg/Kg	1	2.00	100	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.77	mg/Kg	1	2.00	88	38.4 - 157

Sample: 241410 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**8810**	mg/Kg	100	4.00

Sample: 241410 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

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

Sample: 241410 - AH-6 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		2.21	mg/Kg	1	2.00	110	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.87	mg/Kg	1	2.00	94	42 - 159

Sample: 241411 - AH-6 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**9980**		mg/Kg	100	4.00

Sample: 241412 - AH-6 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**5630**	mg/Kg	100	4.00

Sample: 241413 - AH-6 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

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

Sample: 241414 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.55	mg/Kg	1	2.00	78	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.34	mg/Kg	1	2.00	67	38.4 - 157

Sample: 241414 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**18400**	mg/Kg	100	4.00

Sample: 241414 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

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

Sample: 241414 - AH-7 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.71	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.43	mg/Kg	1	2.00	72	42 - 159

Sample: 241415 - AH-7 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**18700**	mg/Kg	100	4.00

Sample: 241416 - AH-7 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**19900**	mg/Kg	100	4.00

Sample: 241417 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.25	mg/Kg	1	2.00	62	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	2.00	55	38.4 - 157

Sample: 241417 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**11500**	mg/Kg	100	4.00

Sample: 241417 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	Sample Preparation:	2010-08-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 241417 - AH-8 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.40	mg/Kg	1	2.00	70	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.18	mg/Kg	1	2.00	59	42 - 159

Sample: 241418 - AH-8 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**10800**	mg/Kg	100	4.00

Sample: 241419 - AH-8 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**20600**	mg/Kg	100	4.00

Sample: 241420 - AH-8 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	Sample Preparation:	2010-08-19	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**18200**	mg/Kg	100	4.00

Sample: 241421 - AH-8 4-4.5.'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**3330**	mg/Kg	100	4.00

Sample: 241422 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.43	mg/Kg	1	2.00	72	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	38.4 - 157

Sample: 241422 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10300**	mg/Kg	100	4.00

Sample: 241422 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72812	Date Analyzed:	2010-08-20	Analyzed By:	kg
Prep Batch:	62428	Sample Preparation:	2010-08-20	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		105	mg/Kg	1	100	105	70 - 130

Sample: 241422 - AH-9 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	Sample Preparation:	2010-08-20	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)		1.59	mg/Kg	1	2.00	80	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.32	mg/Kg	1	2.00	66	42 - 159

Sample: 241423 - AH-9 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10800**	mg/Kg	100	4.00

Sample: 241424 - AH-9 1.5-2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**22700**	mg/Kg	100	4.00

Sample: 241425 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**7830**	mg/Kg	100	4.00

Sample: 241425 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72812	Date Analyzed:	2010-08-20	Analyzed By:	kg
Prep Batch:	62428	Sample Preparation:	2010-08-20	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 241425 - AH-10 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72815	Date Analyzed:	2010-08-22	Analyzed By:	AG
Prep Batch:	62423	Sample Preparation:	2010-08-21	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)		1.66	mg/Kg	1	2.00	83	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.39	mg/Kg	1	2.00	70	42 - 159

Sample: 241426 - AH-10 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

continued ...

sample 241426 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8630**	mg/Kg	100	4.00

Sample: 241427 - AH-10 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8610**	mg/Kg	100	4.00

Sample: 241428 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9190**	mg/Kg	100	4.00

Sample: 241428 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	72812	Date Analyzed:	2010-08-20	Analyzed By:	kg
Prep Batch:	62428	Sample Preparation:	2010-08-20	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 241428 - AH-11 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	72815	Date Analyzed:	2010-08-22	Analyzed By:	AG
Prep Batch:	62423	Sample Preparation:	2010-08-21	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)		2.15	mg/Kg	1	2.00	108	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	42 - 159

Sample: 241429 - AH-11 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6140**	mg/Kg	100	4.00

Sample: 241430 - AH-11 2-2.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72831	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62380	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5940**	mg/Kg	100	4.00

Sample: 241431 - AH-11 3-3.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**7930**	mg/Kg	100	4.00

Sample: 241432 - AH-11 4-4.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**9820**	mg/Kg	100	4.00

Sample: 241433 - AH-11 5-5.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**22800**	mg/Kg	100	4.00

Sample: 241434 - AH-11 6-6.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**24200**	mg/Kg	100	4.00

Sample: 241435 - AH-11 7-7.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**10400**	mg/Kg	100	4.00

Sample: 241436 - AH-11 8-8.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	Sample Preparation:	2010-08-23	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8460**	mg/Kg	100	4.00

Method Blank (1) QC Batch: 72752

QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	QC Preparation:	2010-08-19	Prepared By:	AR

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

Method Blank (1) QC Batch: 72753

QC Batch:	72753	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62376	QC Preparation:	2010-08-19	Prepared By:	AR

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

Method Blank (1) QC Batch: 72754

QC Batch:	72754	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62377	QC Preparation:	2010-08-19	Prepared By:	AR

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

Method Blank (1) QC Batch: 72755

QC Batch:	72755	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62379	QC Preparation:	2010-08-19	Prepared By:	AR

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

Method Blank (1) QC Batch: 72775

QC Batch:	72775	Date Analyzed:	2010-08-19	Analyzed By:	kg
Prep Batch:	62398	QC Preparation:	2010-08-19	Prepared By:	kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		96.4	mg/Kg	1	100	96	70 - 130

Method Blank (1) QC Batch: 72808

QC Batch:	72808	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	QC Preparation:	2010-08-20	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)		2.00	mg/Kg	1	2.00	100	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.70	mg/Kg	1	2.00	85	52.4 - 130

Method Blank (1) QC Batch: 72812

QC Batch: 72812 | Date Analyzed: 2010-08-20 | Analyzed By: kg
Prep Batch: 62428 | QC Preparation: 2010-08-20 | 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		98.6	mg/Kg	1	100	99	70 - 130

Method Blank (1) QC Batch: 72815

QC Batch: 72815 | Date Analyzed: 2010-08-22 | Analyzed By: AG
Prep Batch: 62423 | QC Preparation: 2010-08-21 | 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)		2.07	mg/Kg	1	2.00	104	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.43	mg/Kg	1	2.00	72	52.4 - 130

Method Blank (1) QC Batch: 72831

QC Batch: 72831 | Date Analyzed: 2010-08-23 | Analyzed By: AR
Prep Batch: 62380 | QC Preparation: 2010-08-19 | Prepared By: AR

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

Method Blank (1) QC Batch: 72832

QC Batch:	72832	Date Analyzed:	2010-08-23	Analyzed By:	AR
Prep Batch:	62441	QC Preparation:	2010-08-23	Prepared By:	AR

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

Method Blank (1) QC Batch: 72835

QC Batch:	72835	Date Analyzed:	2010-08-21	Analyzed By:	AG
Prep Batch:	62422	QC Preparation:	2010-08-20	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.74	mg/Kg	1	2.00	87	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	1	2.00	75	55.4 - 132

Laboratory Control Spike (LCS-1)

QC Batch:	72752	Date Analyzed:	2010-08-19	Analyzed By:	AR
Prep Batch:	62375	QC Preparation:	2010-08-19	Prepared By:	AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.6	mg/Kg	1	100	<2.18	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	7	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 72753 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62376 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.7	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: 72754 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62377 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.4	mg/Kg	1	100	<2.18	96	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	8	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 72755 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62379 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.3	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: 72775 | Date Analyzed: 2010-08-19 | Analyzed By: kg
Prep Batch: 62398 | QC Preparation: 2010-08-19 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	261	mg/Kg	1	250	<14.5	104	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	281	mg/Kg	1	250	<14.5	112	57.4 - 133.4	7	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	116	125	mg/Kg	1	100	116	125	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72808 | Date Analyzed: 2010-08-21 | Analyzed By: AG
Prep Batch: 62422 | QC Preparation: 2010-08-20 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.0	mg/Kg	1	20.0	<1.65	80	69.9 - 95.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	69.9 - 95.4	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.05	2.01	mg/Kg	1	2.00	102	100	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.80	1.75	mg/Kg	1	2.00	90	88	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72812 | Date Analyzed: 2010-08-20 | Analyzed By: kg
Prep Batch: 62428 | QC Preparation: 2010-08-20 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	241	mg/Kg	1	250	<14.5	96	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	234	mg/Kg	1	250	<14.5	94	57.4 - 133.4	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	110	108	mg/Kg	1	100	110	108	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72815 | Date Analyzed: 2010-08-22 | Analyzed By: AG
Prep Batch: 62423 | QC Preparation: 2010-08-21 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.3	mg/Kg	1	20.0	<1.65	72	69.9 - 95.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	14.2	mg/Kg	1	20.0	<1.65	71	69.9 - 95.4	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.05	1.86	mg/Kg	1	2.00	102	93	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.64	1.51	mg/Kg	1	2.00	82	76	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72831 | Date Analyzed: 2010-08-23 | Analyzed By: AR
Prep Batch: 62380 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.3	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: 72832 | Date Analyzed: 2010-08-23 | Analyzed By: AR
Prep Batch: 62441 | QC Preparation: 2010-08-23 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.5	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 72835 | Date Analyzed: 2010-08-21 | Analyzed By: AG
Prep Batch: 62422 | QC Preparation: 2010-08-20 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.15	mg/Kg	1	2.00	<0.0150	108	81.9 - 108
Toluene	2.06	mg/Kg	1	2.00	<0.00950	103	81.9 - 107
Ethylbenzene	1.90	mg/Kg	1	2.00	<0.0106	95	78.4 - 107
Xylene	5.73	mg/Kg	1	6.00	<0.00930	96	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	1	20
Toluene	2.02	mg/Kg	1	2.00	<0.00950	101	81.9 - 107	2	20
Ethylbenzene	1.87	mg/Kg	1	2.00	<0.0106	94	78.4 - 107	2	20
Xylene	5.67	mg/Kg	1	6.00	<0.00930	94	79.1 - 107	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.00	1.76	mg/Kg	1	2.00	100	88	70.2 - 114

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	1.90	1.66	mg/Kg	1	2.00	95	83	69.8 - 121

Matrix Spike (MS-1) Spiked Sample: 241390

QC Batch: 72752 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62375 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	398	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	10400	mg/Kg	100	10000	398	100	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: 241400

QC Batch: 72753 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62376 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	22400	mg/Kg	100	10000	12200	102	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	22800	mg/Kg	100	10000	12200	106	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: 241410

QC Batch: 72754 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62377 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	18800	mg/Kg	100	10000	8810	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	19300	mg/Kg	100	10000	8810	105	85 - 115	3	20

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

Matrix Spike (MS-1) Spiked Sample: 241420

QC Batch: 72755 | Date Analyzed: 2010-08-19 | Analyzed By: AR
Prep Batch: 62379 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	28500	mg/Kg	100	10000	18200	103	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	29000	mg/Kg	100	10000	18200	108	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: 241299

QC Batch: 72775 | Date Analyzed: 2010-08-19 | Analyzed By: kg
Prep Batch: 62398 | QC Preparation: 2010-08-19 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	205	mg/Kg	1	250	<14.5	82	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	212	mg/Kg	1	250	<14.5	85	35.2 - 167.1	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	95.4	96.1	mg/Kg	1	100	95	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 241371

QC Batch: 72808 | Date Analyzed: 2010-08-21 | Analyzed By: AG
Prep Batch: 62422 | QC Preparation: 2010-08-20 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO [1]	50.3	mg/Kg	1	20.0	6.92	217	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 [2]	35.9	mg/Kg	1	20.0	6.92	145	61.8 - 114	33	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.70	1.86	mg/Kg	1	2	85	93	50 - 162
4-Bromofluorobenzene (4-BFB)	1.69	1.72	mg/Kg	1	2	84	86	50 - 162

Matrix Spike (MS-1) Spiked Sample: 241463

QC Batch: 72812 | Date Analyzed: 2010-08-20 | Analyzed By: kg
Prep Batch: 62428 | QC Preparation: 2010-08-20 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	216	mg/Kg	1	250	<14.5	86	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	226	mg/Kg	1	250	<14.5	90	35.2 - 167.1	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	98.4	104	mg/Kg	1	100	98	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 241593

QC Batch: 72815 | Date Analyzed: 2010-08-22 | Analyzed By: AG
Prep Batch: 62423 | QC Preparation: 2010-08-21 | Prepared By: AG

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	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	16.4	mg/Kg	1	20.0	<1.65	82	61.8 - 114	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.70	2.03	mg/Kg	1	2	85	102	50 - 162
4-Bromofluorobenzene (4-BFB)	1.54	1.80	mg/Kg	1	2	77	90	50 - 162

Matrix Spike (MS-1) Spiked Sample: 241430

QC Batch: 72831 | Date Analyzed: 2010-08-23 | Analyzed By: AR
Prep Batch: 62380 | QC Preparation: 2010-08-19 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	15600	mg/Kg	100	10000	5940	97	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	16400	mg/Kg	100	10000	5940	105	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: 241463

QC Batch: 72832 | Date Analyzed: 2010-08-23 | Analyzed By: AR
Prep Batch: 62441 | QC Preparation: 2010-08-23 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11400	mg/Kg	100	10000	1440	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	12100	mg/Kg	100	10000	1440	107	85 - 115	6	20

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

Standard (ICV-1)

QC Batch: 72752 | Date Analyzed: 2010-08-19 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2010-08-19

Standard (CCV-1)

QC Batch: 72752 | Date Analyzed: 2010-08-19 | 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	2010-08-19

Standard (ICV-1)

QC Batch: 72753 | Date Analyzed: 2010-08-19 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2010-08-19

Standard (CCV-1)

QC Batch: 72753 | Date Analyzed: 2010-08-19 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-19

Standard (ICV-1)

QC Batch: 72754 | Date Analyzed: 2010-08-19 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-19

Standard (CCV-1)

QC Batch: 72754 | Date Analyzed: 2010-08-19 | 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	2010-08-19

Standard (ICV-1)

QC Batch: 72755 | Date Analyzed: 2010-08-19 | 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	2010-08-19

Standard (CCV-1)

QC Batch: 72755 | Date Analyzed: 2010-08-19 | 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	2010-08-19

Standard (CCV-2)

QC Batch: 72775 | Date Analyzed: 2010-08-19 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	80 - 120	2010-08-19

Standard (CCV-3)

QC Batch: 72775 | Date Analyzed: 2010-08-19 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	239	96	80 - 120	2010-08-19

Standard (CCV-4)

QC Batch: 72775 | Date Analyzed: 2010-08-19 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	245	98	80 - 120	2010-08-19

Standard (CCV-2)

QC Batch: 72808 | Date Analyzed: 2010-08-21 | 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	0.988	99	80 - 120	2010-08-21

Standard (CCV-3)

QC Batch: 72808 | Date Analyzed: 2010-08-21 | 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	0.909	91	80 - 120	2010-08-21

Standard (CCV-1)

QC Batch: 72812 | Date Analyzed: 2010-08-20 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	223	89	80 - 120	2010-08-20

Standard (CCV-2)

QC Batch: 72812 | Date Analyzed: 2010-08-20 | Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	80 - 120	2010-08-20

Standard (CCV-1)

QC Batch: 72815 | Date Analyzed: 2010-08-22 | 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	0.892	89	80 - 120	2010-08-22

Standard (CCV-2)

QC Batch: 72815 | Date Analyzed: 2010-08-22 | 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	0.860	86	80 - 120	2010-08-22

Standard (ICV-1)

QC Batch: 72831 | Date Analyzed: 2010-08-23 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-08-23

Standard (CCV-1)

QC Batch: 72831 | Date Analyzed: 2010-08-23 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-23

Standard (ICV-1)

QC Batch: 72832 | Date Analyzed: 2010-08-23 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-23

Standard (CCV-1)

QC Batch: 72832 | Date Analyzed: 2010-08-23 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2010-08-23

Standard (CCV-2)

QC Batch: 72835 | Date Analyzed: 2010-08-21 | 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	2010-08-21
Toluene		mg/Kg	0.100	0.0973	97	80 - 120	2010-08-21
Ethylbenzene		mg/Kg	0.100	0.0901	90	80 - 120	2010-08-21
Xylene		mg/Kg	0.300	0.270	90	80 - 120	2010-08-21

Standard (CCV-3)

QC Batch: 72835 | Date Analyzed: 2010-08-21 | 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	2010-08-21
Toluene		mg/Kg	0.100	0.0953	95	80 - 120	2010-08-21
Ethylbenzene		mg/Kg	0.100	0.0869	87	80 - 120	2010-08-21
Xylene		mg/Kg	0.300	0.262	87	80 - 120	2010-08-21

WO #: 10081752

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 6

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-G400626

PROJECT NAME: COG / Loco Hills SWD #1
Eddy Co, NM

LAB I.D. NUMBER	DATE 2010	TIME ~~2010~~	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
241383	8/4		S		X	AH-1 0-1'	1				X			X											X				
384						AH-1 1'-1.5'																							
385						AH-1 2'-2.5'																							
386						AH-1 3'-3.5'																							
387						AH-1 4'-4.5'																							
388						AH-2 0-1'								X															
389						AH-2 1'-1.5'																							
390						AH-2 2'-2.5'																							
391						AH-2 3'-3.5'																							
392						AH-2 4'-4.5'																							

RELINQUISHED BY: (Signature) — Date: 8/13/10 Time: 1545
RECEIVED BY: (Signature) — Date: 8/13/10 Time: 1545

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 / JJ — Date: 8/9/10 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: 18.0°c INTACT

REMARKS: If total TPH exceeds 5,000 mg/kg run deeper sample / If BTEX exceeds 50 mg/kg or Benzene exceed 10 mg/kg run deeper samples

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

Run 6 highest TPH for BTEX

WO#: 10081702

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 6

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:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-4006-26	COG / Loco Hills SWD #1 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
24139 3	8/9		S		X	AH-3 0-1'	1				X			X											X				
394						AH-3 1'-1.5'																							
395						AH-3 2'-2.5'																							
396						AH-3 3'-3.5'																							
397						AH-3 4'-4.5'																							
398						AH-4 0-1'								X															
399						AH-4 1'-1.5'																							
400						AH-4 2'-2.5'																							
401						AH-4 3'-3.5'																							
402						AH-4 4'-4.5'																							

RELINQUISHED BY: (Signature)	Date: 8/13/10 Time: 1545	RECEIVED BY: (Signature)	Date: 8/13/10 Time: 15:46
SAMPLED BY: (Print & Initial) JT / JJ	Date: 8/5/10 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: Trace	RECEIVED BY: (Signature)		
ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE: DATE: TIME:	RUSH Charges Authorized: Yes No		

SAMPLE CONDITION WHEN RECEIVED: 18.0°C intact

REMARKS: If total TPH exceeds 5,000 mg/kg run deeper samples / Run 6 highest TPH for BTEX If total BTEX exceeds 50mg/kg or Benzene exceeds 10mg/kg run deeper samples

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

WO #: 10081702

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 6

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:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-4400626	COG / Loco Hills SWD #1 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 TX1005 (Ext. to C35)	TPH 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
24|403	8/4		S		X	AH-4 5'-5.5'	1				X															X				
404						AH-4 6'-6.5'																									
405						AH-4 7'-7.5'																									
406						AH-4 7.5'-8'																									
407						AH-5 0-1'									X																
408						AH-5 1'-1.5'																									
409						AH-5 15'-2'																									
410						AH-6 0-1'									X																
411						AH-6 1'-1.5'																									
412						AH-6 2'-2.5'																									

RELINQUISHED BY: (Signature)	Date: 8/5/10 Time: 1545	RECEIVED BY: (Signature)	Date: 8/5/10 Time: 13:46
SAMPLED BY: (Print & Initial) JJ	Date: 8/4/10 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: 18.0°C iMod	REMARKS: If total TPH exceeds 5000 mg/kg run deeper samples / Run BTEX on 6 highest TPH, If BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples		

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

WO#: 10081702

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:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-4000626	COG / Loco Hills SWD #1 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 (Ext. to C35) TX1005	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
241413	8/9		S		X	AH-6 3'-3.5'	1				X													X				
414						AH-7 0-1'								X														
415						AH-7 1'-1.5'																						
416						AH-7 2'-2.5'																						
417						AH-8 0-1'								X														
418						AH-8 1'-1.5'																						
419						AH-8 2'-2.5'																						
420						AH-8 3'-3.5'																						
421						AH-8 4'-4.5'																						
422						AH-9 0-1'								X														

RELINQUISHED BY: (Signature)	Date: 8/13/10 Time: 1545	RECEIVED BY: (Signature)	Date: 8/13/10 Time: 1545	SAMPLED BY: (Print & Initial) JT / JJ	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: Ike Tavarez	Results by:
RECEIVING LABORATORY: Xenco ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:		RECEIVED BY: (Signature) DATE: TIME:			RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 18.0°C in contact

REMARKS: If total TPH exceeds 5000 mg/kg run deeper samples / Run BTEX on 6 highest TPH, if Benzene exceeds 10 mg/kg or total Benzene exceeds 50 mg/kg run deeper samples

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

WO #: 1089702

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: 5 OF: 6

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-1400626

PROJECT NAME: COG / Loco Hills SWD #1
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
241423	8/4		S		X	AH-9 1'-1.5'	1				X	
424						AH-9 ~~2'-2.5'~~ 1.5'-2' (per line)						
425						AH-10 0-1'						
426						AH-10 1'-1.5'						
427						AH-10 2'-2.5'						
428						AH-11 0-1'						
429						AH-11 1'-1.5'						
430						AH-11 2'-2.5'						
431						AH-11 3'-3.5'						
432						AH-11 4'-4.5'						

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
	X											X				
	X															

RELINQUISHED BY: (Signature) Date: 8/15/10 Time: 1545
RECEIVED BY: (Signature) Date: 8/16/10 Time: 1345
SAMPLED BY: (Print & Initial) JT/JJ Date: 8/4/10 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:
RUSH Charges Authorized: Yes No

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

SAMPLE CONDITION WHEN RECEIVED: 18.0° c/ctact

REMARKS: If total TPH exceeds 5,000 mg/kg run deeper samples / Run GBTEX on highest TPH, If total BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples

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

WO #: 10081702

Analysis Request of Chain of Custody Record

PAGE: 6 OF: 6

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.: 114-6400626

PROJECT NAME: COG / Loco Hills SWD #1 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
241433	8/9		S		X	AH-11 5'-5.5'	1				X	
434						AH-11 6'-6.5'						
435						AH-11 7'-7.5'						
436						AH-11 8'-8.5'						

ANALYSIS REQUEST columns: 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 Cr 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: 8/13/10 Time: 1545	RECEIVED BY: (Signature)	Date: 8/13/10 Time: 15:46
SAMPLED BY: (Print & Initial) JT / JJ	Date: 8/9/10 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: Trace ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 18.0°C Intact

REMARKS: If total TPH exceeds 5,000 mg/kg run deeper samples / Run BTEX on highest TPH, If BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples

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

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: October 14, 2010

Work Order: 10100710

Project Location: Eddy County, NM
Project Name: COG/Loco Hills SWD #35 (#1)
Project Number: 114-6400626

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
246843	BH-1 0-1'	soil	2010-10-05	00:00	2010-10-07
246844	BH-1 3'	soil	2010-10-05	00:00	2010-10-07
246845	BH-1 5'	soil	2010-10-05	00:00	2010-10-07
246846	BH-1 7'	soil	2010-10-05	00:00	2010-10-07
246847	BH-1 10'	soil	2010-10-05	00:00	2010-10-07
246848	BH-1 15'	soil	2010-10-05	00:00	2010-10-07
246849	BH-1 20'	soil	2010-10-05	00:00	2010-10-07
246850	BH-1 25'	soil	2010-10-05	00:00	2010-10-07
246851	BH-1 30'	soil	2010-10-05	00:00	2010-10-07
246853	BH-2 0-1'	soil	2010-10-05	00:00	2010-10-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
246854	BH-2 3'	soil	2010-10-05	00:00	2010-10-07
246855	BH-2 5'	soil	2010-10-05	00:00	2010-10-07
246856	BH-2 7'	soil	2010-10-05	00:00	2010-10-07
246857	BH-2 10'	soil	2010-10-05	00:00	2010-10-07
246858	BH-2 15'	soil	2010-10-05	00:00	2010-10-07
246859	BH-2 20'	soil	2010-10-05	00:00	2010-10-07
246860	BH-2 25'	soil	2010-10-05	00:00	2010-10-07
246861	BH-2 30'	soil	2010-10-05	00:00	2010-10-07
246862	BH-2 40'	soil	2010-10-05	00:00	2010-10-07
246864	BH-3 0-1'	soil	2010-10-05	00:00	2010-10-07
246865	BH-3 3'	soil	2010-10-05	00:00	2010-10-07
246866	BH-3 5'	soil	2010-10-05	00:00	2010-10-07
246867	BH-3 7'	soil	2010-10-05	00:00	2010-10-07
246868	BH-3 10'	soil	2010-10-05	00:00	2010-10-07
246871	BH-4 0-1'	soil	2010-10-05	00:00	2010-10-07
246872	BH-4 3'	soil	2010-10-05	00:00	2010-10-07
246873	BH-4 5'	soil	2010-10-05	00:00	2010-10-07
246874	BH-4 7'	soil	2010-10-05	00:00	2010-10-07
246875	BH-4 10'	soil	2010-10-05	00:00	2010-10-07
246876	BH-4 15'	soil	2010-10-05	00:00	2010-10-07
246877	BH-4 20'	soil	2010-10-05	00:00	2010-10-07
246878	BH-5 0-1'	soil	2010-10-05	00:00	2010-10-07
246879	BH-5 3'	soil	2010-10-05	00:00	2010-10-07
246880	BH-5 5'	soil	2010-10-05	00:00	2010-10-07
246881	BH-5 7'	soil	2010-10-05	00:00	2010-10-07
246882	BH-5 10'	soil	2010-10-05	00:00	2010-10-07
246883	BH-5 15'	soil	2010-10-05	00:00	2010-10-07
246884	BH-5 20'	soil	2010-10-05	00:00	2010-10-07
246885	BH-5 25'	soil	2010-10-05	00:00	2010-10-07
246886	BH-5 30'	soil	2010-10-05	00:00	2010-10-07
246887	BH-5 40'	soil	2010-10-05	00:00	2010-10-07
246889	BH-6 0-1'	soil	2010-10-05	00:00	2010-10-07
246890	BH-6 3'	soil	2010-10-05	00:00	2010-10-07
246891	BH-6 5'	soil	2010-10-05	00:00	2010-10-07
246892	BH-6 7'	soil	2010-10-05	00:00	2010-10-07
246893	BH-6 10'	soil	2010-10-05	00:00	2010-10-07
246894	BH-6 15'	soil	2010-10-05	00:00	2010-10-07
246895	BH-6 20'	soil	2010-10-05	00:00	2010-10-07
246896	BH-6 25'	soil	2010-10-05	00:00	2010-10-07
246897	BH-7 0-1'	soil	2010-10-05	00:00	2010-10-07
246898	BH-7 3'	soil	2010-10-05	00:00	2010-10-07
246899	BH-7 5'	soil	2010-10-05	00:00	2010-10-07
246900	BH-7 7'	soil	2010-10-05	00:00	2010-10-07
246901	BH-7 10'	soil	2010-10-05	00:00	2010-10-07
246902	BH-7 15'	soil	2010-10-05	00:00	2010-10-07
246903	BH-7 20'	soil	2010-10-05	00:00	2010-10-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
246904	BH-7 25'	soil	2010-10-05	00:00	2010-10-07

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/Loco Hills SWD #35 were received by TraceAnalysis, Inc. on 2010-10-07 and assigned to work order 10100710. Samples for work order 10100710 were received intact at a temperature of 3.4 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	63774	2010-10-11 at 10:21	74376	2010-10-13 at 14:50
Chloride (Titration)	SM 4500-Cl B	63774	2010-10-11 at 10:21	74377	2010-10-13 at 14:51
Chloride (Titration)	SM 4500-Cl B	63774	2010-10-11 at 10:21	74378	2010-10-13 at 14:52
Chloride (Titration)	SM 4500-Cl B	63774	2010-10-11 at 10:21	74379	2010-10-13 at 14:53
Chloride (Titration)	SM 4500-Cl B	63790	2010-10-12 at 10:00	74380	2010-10-13 at 14:54
Chloride (Titration)	SM 4500-Cl B	63790	2010-10-12 at 10:00	74381	2010-10-13 at 14:55

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 10100710 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: 246843 - BH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246844 - BH-1 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl.B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246845 - BH-1 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8530**	mg/Kg	100	4.00

Sample: 246846 - BH-1 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

continued ...

sample 246846 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**15200**	mg/Kg	100	4.00

Sample: 246847 - BH-1 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246848 - BH-1 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**497**	mg/Kg	50	4.00

Sample: 246849 - BH-1 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246850 - BH-1 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246851 - BH-1 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246853 - BH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246854 - BH-2 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2950**	mg/Kg	100	4.00

Sample: 246855 - BH-2 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**16200**	mg/Kg	100	4.00

Sample: 246856 - BH-2 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**8150**	mg/Kg	100	4.00

Sample: 246857 - BH-2 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**7810**	mg/Kg	100	4.00

Sample: 246858 - BH-2 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1240**	mg/Kg	100	4.00

Sample: 246859 - BH-2 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**697**		mg/Kg	50	4.00

Sample: 246860 - BH-2 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**464**		mg/Kg	50	4.00

Sample: 246861 - BH-2 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**409**		mg/Kg	50	4.00

Sample: 246862 - BH-2 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**202**		mg/Kg	50	4.00

Sample: 246864 - BH-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246865 - BH-3 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1490**	mg/Kg	100	4.00

Sample: 246866 - BH-3 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**16200**	mg/Kg	100	4.00

Sample: 246867 - BH-3 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**602**	mg/Kg	50	4.00

Sample: 246868 - BH-3 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246871 - BH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**248**	mg/Kg	50	4.00

Sample: 246872 - BH-4 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**283**	mg/Kg	50	4.00

Sample: 246873 - BH-4 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246874 - BH-4 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246875 - BH-4 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246876 - BH-4 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246877 - BH-4 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246878 - BH-5 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**348**	mg/Kg	50	4.00

Sample: 246879 - BH-5 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246880 - BH-5 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**278**	mg/Kg	50	4.00

Sample: 246881 - BH-5 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9020**	mg/Kg	100	4.00

Sample: 246882 - BH-5 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2160**	mg/Kg	100	4.00

Sample: 246883 - BH-5 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5740**	mg/Kg	100	4.00

Sample: 246884 - BH-5 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246885 - BH-5 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**264**	mg/Kg	50	4.00

Sample: 246886 - BH-5 30'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246887 - BH-5 40'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246889 - BH-6 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246890 - BH-6 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2290**	mg/Kg	100	4.00

Sample: 246891 - BH-6 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**10300**	mg/Kg	100	4.00

Sample: 246892 - BH-6 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246893 - BH-6 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246894 - BH-6 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**211**	mg/Kg	50	4.00

Sample: 246895 - BH-6 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246896 - BH-6 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246897 - BH-7 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246898 - BH-7 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246899 - BH-7 5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1740**	mg/Kg	100	4.00

Sample: 246900 - BH-7 7'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246901 - BH-7 10'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**3750**	mg/Kg	100	4.00

Sample: 246902 - BH-7 15'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**338**	mg/Kg	50	4.00

Sample: 246903 - BH-7 20'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Sample: 246904 - BH-7 25'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	Sample Preparation:	2010-10-12	Prepared By:	AR

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

Method Blank (1) QC Batch: 74376

QC Batch:	74376	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	QC Preparation:	2010-10-11	Prepared By:	BP

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

Method Blank (1) QC Batch: 74377

QC Batch:	74377	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	QC Preparation:	2010-10-11	Prepared By:	BP

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

Method Blank (1) QC Batch: 74378

QC Batch:	74378	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	QC Preparation:	2010-10-11	Prepared By:	BP

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

Method Blank (1) QC Batch: 74379

QC Batch:	74379	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63774	QC Preparation:	2010-10-11	Prepared By:	BP

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

Method Blank (1) QC Batch: 74380

QC Batch:	74380	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	QC Preparation:	2010-10-12	Prepared By:	AR

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

Method Blank (1) QC Batch: 74381

QC Batch:	74381	Date Analyzed:	2010-10-13	Analyzed By:	AR
Prep Batch:	63790	QC Preparation:	2010-10-12	Prepared By:	AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 74376 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.4	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: 74377 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<2.18	100	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	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: 74378 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<2.18	101	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	3	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: 74379 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

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	102	mg/Kg	1	100	<2.18	102	85 - 115	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 74380 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63790 | QC Preparation: 2010-10-12 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.5	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: 74381 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63790 | QC Preparation: 2010-10-12 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.6	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

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

Matrix Spike (MS-1) Spiked Sample: 246853

QC Batch: 74376 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

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	10700	mg/Kg	100	10000	<218	105	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: 246864

QC Batch: 74377 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 246876

QC Batch: 74378 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9940	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	10400	mg/Kg	100	10000	<218	104	85 - 115	4	20

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

Matrix Spike (MS-1) Spiked Sample: 246886

QC Batch: 74379 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63774 | QC Preparation: 2010-10-11 | Prepared By: BP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	259	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	10700	mg/Kg	100	10000	259	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: 246897

QC Batch: 74380 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63790 | QC Preparation: 2010-10-12 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	102	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10700	mg/Kg	100	10000	<218	107	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: 246920

QC Batch: 74381 | Date Analyzed: 2010-10-13 | Analyzed By: AR
Prep Batch: 63790 | QC Preparation: 2010-10-12 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	14500	mg/Kg	100	10000	3940	106	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	14800	mg/Kg	100	10000	3940	109	85 - 115	2	20

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

Standard (ICV-1)

QC Batch: 74376 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-10-13

Standard (CCV-1)

QC Batch: 74376 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-10-13

Standard (ICV-1)

QC Batch: 74377 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-10-13

Standard (CCV-1)

QC Batch: 74377 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2010-10-13

Standard (ICV-1)

QC Batch: 74378 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-10-13

Standard (CCV-1)

QC Batch: 74378 | Date Analyzed: 2010-10-13 | 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	2010-10-13

Standard (ICV-1)

QC Batch: 74379 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-10-13

Standard (CCV-1)

QC Batch: 74379 | Date Analyzed: 2010-10-13 | 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	2010-10-13

Standard (ICV-1)

QC Batch: 74380 | Date Analyzed: 2010-10-13 | 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	2010-10-13

Standard (CCV-1)

QC Batch: 74380 | Date Analyzed: 2010-10-13 | Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-10-13

Standard (ICV-1)

QC Batch: 74381 | Date Analyzed: 2010-10-13 | 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	2010-10-13

Standard (CCV-1)

QC Batch: 74381 | Date Analyzed: 2010-10-13 | 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	2010-10-13

WO#: 10100710

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 7

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.: 114-6400626
PROJECT NAME: COG / Loco Hills SWD #35
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
246843	10/5		S		X	BH-1 0-1'	1				X													X				
844						BH-1 3'	1				X													X				
845						BH-1 5'	1				X													X				
846						BH-1 7'	1				X													X				
847						BH-1 10'	1				X													X				
848						BH-1 15'	1				X													X				
849						BH-1 20'	1				X													X				
850						BH-1 25'	1				X													X				
851						BH-1 30'	1				X													X				
852						BH-1 40'	1				X																	

RELINQUISHED BY: (Signature) Date: 10.07.10 Time: 10:10
RECEIVED BY: (Signature) Date: 10/7/10 Time: 10:07
SAMPLED BY: (Print & Initial) Kim Date: 10/5/10 Time:

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

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

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

TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.4°C intact
REMARKS: all tests - Midland

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

WO #: 10100710

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.: 114-640626

PROJECT NAME: COG / Loco Hills SWD #35
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 Cr 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
246853	10/5		S		X	BH-2 0-1'	1				X														X				
854						BH-2 3'	1				X														X				
855						BH-2 5'	1				X														X				
856						BH-2 7'	1				X														X				
857						BH-2 10'	1				X														X				
858						BH-2 15'	1				X														X				
859						BH-2 20'	1				X														X				
860						BH-2 25'	1				X														X				
861						BH-2 30'	1				X														X				
862						BH-2 40'	1				X														X				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 10-7-10 Time: 10:04	RECEIVED BY: (Signature)	Date: 10/7/10 Time: 10:04
SAMPLED BY: (Print & Initial) Kim	Date: 10/5/10 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: Trace ADDRESS: CITY: Midland STATE: Tx ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.4°C intact	REMARKS:		

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

LOO#: 10100710

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.: 114-640 0626
PROJECT NAME: COG / Loco Hills SWD #35
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
246863	195		S		X	BH-2 50'	1				X																	
864	"		"		"	BH-3 0-1'	1				X													X				
865						BH-3 3'	1				X													X				
866						BH-3 5'	1				X													X				
867						BH-3 7'	1				X													X				
868						BH-3 10'	1				X													X				
869						BH-3 15'	1				X																	
870						BH-3 20'	1				X																	
871						BH-4 0-1'	1				X													X				
872						BH-4 3'	1				X													X				

RELINQUISHED BY: (Signature) Date: 10-7-10 Time: 10:09
RECEIVED BY: (Signature) Date: 10/7/10 Time: 10:09
SAMPLED BY: (Print & Initial) Kim Date: 10/5/10 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: Trace
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3c° c intact
REMARKS:

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

WO #: 10100710

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez
PROJECT NO.: 114-6410616
PROJECT NAME: COG / Loco Hills SWD #35 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
246873	10/5		S		X	BH-4 5'	1				X													X				
874						BH-4 7'																						
875						BH-4 10'																						
876						BH-4 15'																						
877						BH-4 20'																						
878						BH-5 0-1'																						
879						BH-5 3'																						
880						BH-5 5'																						
881						BH-5 7'																						
882						BH-5 10'																						

RELINQUISHED BY: (Signature)	Date: 10-7-10 Time: 10:04	RECEIVED BY: (Signature)	Date: 10/7/10 Time: 10:04
SAMPLED BY: (Print & initial) K.M	Date: 10-5-10 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:		
RECEIVING LABORATORY: Xenco ADDRESS: CITY: Midland STATE: Tx ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.4°c intact	REMARKS:		

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

WO #: 10100710

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.: 114-6408626

PROJECT NAME: Loco Hills SWD #35 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
246883	10/5		S		X	BH-5 15'	1				X													X				
884						BH-5 20'																						
885						BH-5 25'																						
886						BH-5 30'																						
887						BH-5 40'																						
888						BH-5 50'																						
889						BH-6 0-1'																		X				
890						BH-6 3'																						
891						BH-6 5'																						
892						BH-6 7'																						

RELINQUISHED BY: (Signature) Date: 10-7-10 Time: 10:05
RECEIVED BY: (Signature) Date: 10/7/10 Time: 1005

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

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

SAMPLED BY: (Print & Initial) KM Date: 10-5-10 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: 3.4°C intact

REMARKS:

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

WO #: 10100710

Analysis Request of Chain of Custody Record

PAGE: 6 OF: 7

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:	SITE MANAGER:
CCG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-6406626	Loco Hills SWD #35 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
246893	10/5		S		X	BH-6 10'	1				X														X				
894						BH-6 15'																							
895						BH-6 20'																							
896						BH-6 25'																							
897						BH-7 0-1'																							
898						BH-7 3'																							
899						BH-7 5'																							
900						BH-7 7'																							
901						BH-7 10'																							
902	↓	↓	↓		↓	BH-7 15'	↓				↓														↓				

RELINQUISHED BY: (Signature)	Date: 10-5-10 Time: 10:05	RECEIVED BY: (Signature)	Date: 10/5/10 Time: 10:05
SAMPLED BY: (Print & Initial) Kim	Date: 10-5-10 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: Trace ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 3.4°C intact	REMARKS:		

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

WO #: 10100710

Analysis Request of Chain of Custody Record

PAGE: 7 OF: 7

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.: 114-640D626

PROJECT NAME: Loco Hills SWD #35 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
346903	10/5 2010		S		X	BH-7 20'	1				X													X				
904	↓		↓		↓	BH-7 25'	↓				↓													X				
905	↓		↓		↓	BH-7 30'	↓				↓																	

RELINQUISHED BY: (Signature) Date: 10-7-10 Time: 10:05

RECEIVED BY: (Signature) Date: 10/7/10 Time: 10:05

SAMPLED BY: (Print & Initial) Kim Date: 10-5-10 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) ~~550X~~ HAND DELIVERED BUS UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Xenco

ADDRESS:

CITY: Midland STATE: Tx ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.4°C intact

REMARKS:

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