

SITE INFORMATION

Report Type: Assessment and Closure Report

General Site Information:

Site:	Skelly Unit #601	RECEIVED FEB 17 2010 NMOCD ARTESIA
Company:	COG Operating LLC	
Section, Township and Range	Section 21 T17S R 31E Unit L	
Lease Number:	API-30-015-36447	
County:	Eddy County	
GPS:	32.82293° N, 103.88138° W	
Surface Owner:	Federal	
Mineral Owner:		
Directions:	From intersection of 592 and 82, travel east on 82 for 0.3 miles, turn left (north) go 0.8 miles, turn left (west) go 0.3 miles thru Chevron Pad Skelly 952, turn left (south) go 500' to location.	

Release Data:

Date Released:	8/13/2009
Type Release:	Produced water
Source of Contamination:	Flowline leak
Fluid Released:	80 bbls
Fluids Recovered:	60 bbls

Official Communication:

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

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	greater than 100'
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 4, 2010

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

**Re: Closure Report for the COG Operating LLC., Skelly Unit #601,
Unit L, Section 21, Township 17 South, Range 31 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 Skelly Unit #601 located in Unit L, Section 21, Township 17 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.82293°, W 103.88138°. 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 13, 2009, and released approximately eighty (80) barrels of produced water from a flowline. To alleviate the problem, COG personnel replaced the flowline. Sixty (60) barrels of standing fluids were recovered. The spill initiated east of a lease road affecting a 140' wide by 80' (tapering to 25') length area and ran west across road and down a native low-lying wash for approximately 355'. The initial and final C-141 forms are enclosed in Appendix C.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com



Groundwater

No water wells were listed within Section 21. According to the *Geology and Groundwater Resources of Eddy County, New Mexico* (Report 3), one well is located in Section 34, with reported depth to water of 271' below surface. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 300' below surface. The *Geology and Groundwater Resources of Eddy County, New Mexico* (Report 3) well report data is shown in Appendix B.

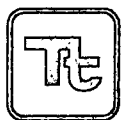
Regulatory

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

Soil Assessment and Analytical Results

On October 27, 2009, Tetra Tech personnel inspected and sampled the spill area. A total of seventeen (17) auger holes (AH-1 through AH-16 and one background) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all the submitted samples were below RRAL for TPH and BTEX. Elevated chloride concentrations were only detected for AH-13 of 1,380 mg/kg (3-3.5'), which declined to 337 mg/kg (8-8.5'). All remaining auger holes had chloride levels that ranged from <200 mg/kg to 907 mg/kg and declined levels with depth.



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Remediation and Conclusion

On January 14, 2010 Tetra Tech personnel supervised the removal of impacted material at AH-13 to a depth of 6-7' bgs. The excavated area was then backfilled and brought up to surface grade with clean soils. The excavated soils, approximately 180 cubic yards, were transported offsite for disposal at Lea Land, Inc, of Carlsbad, New Mexico. Assessment and post excavation photos are included in Photos.

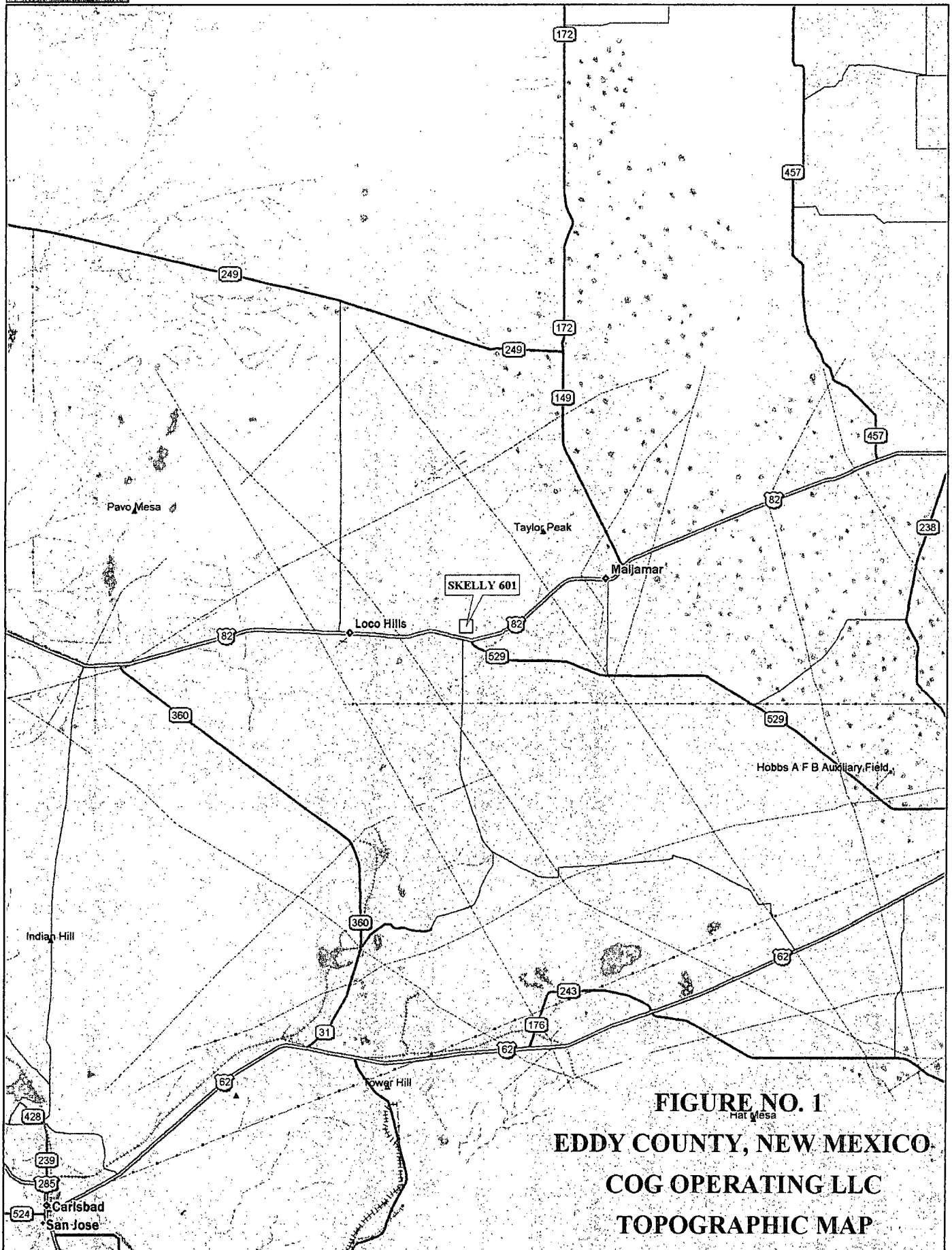
Based on the results, COG requests closure of the site. The C-141 (Final) is included in Appendix C. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Kim Dorey
Staff Geologist

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

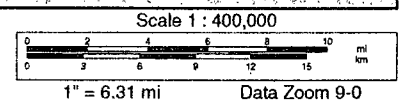
FIGURES



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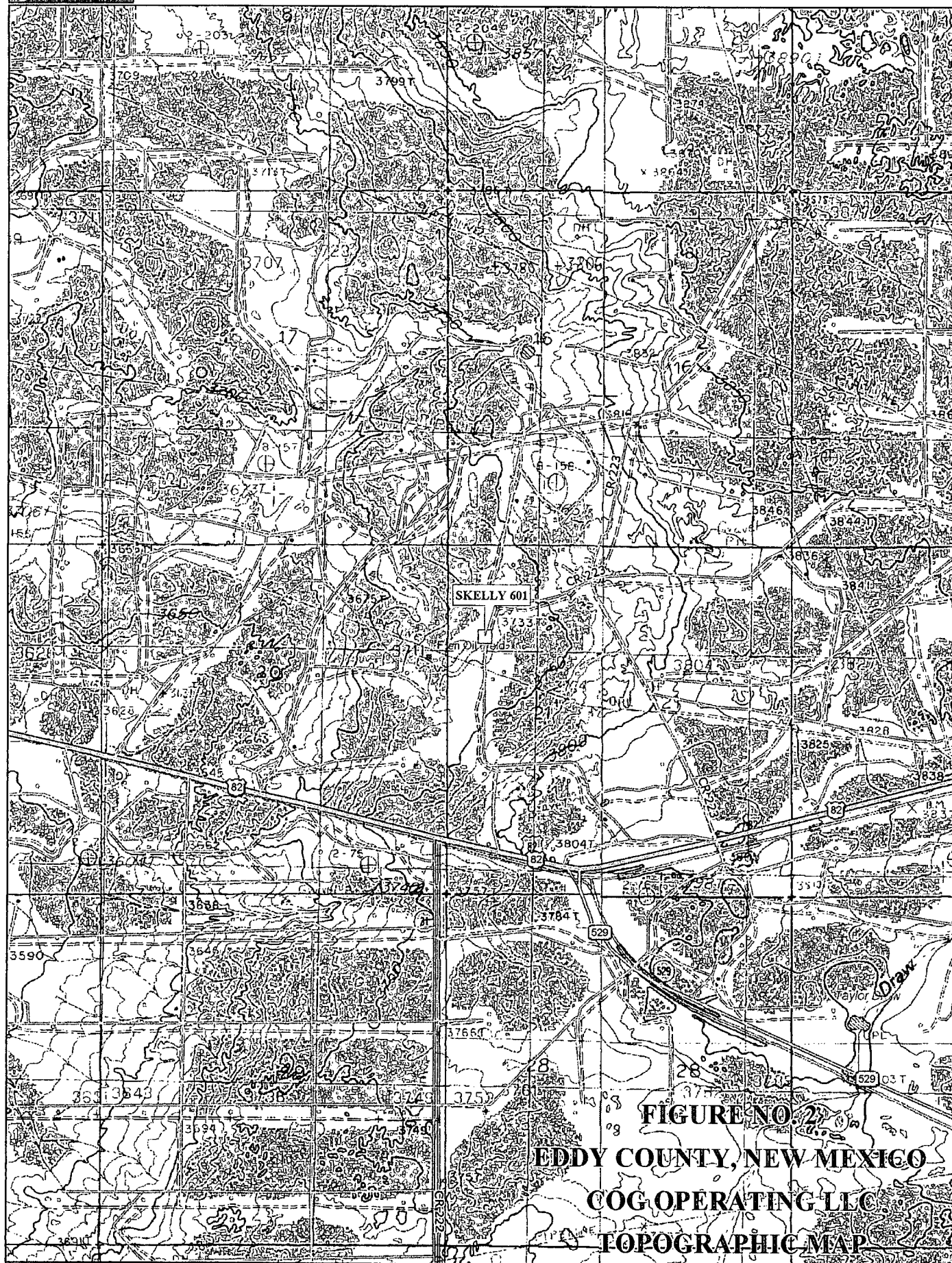


FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

COG OPERATING LLC

TOPOGRAPHIC MAP

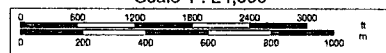
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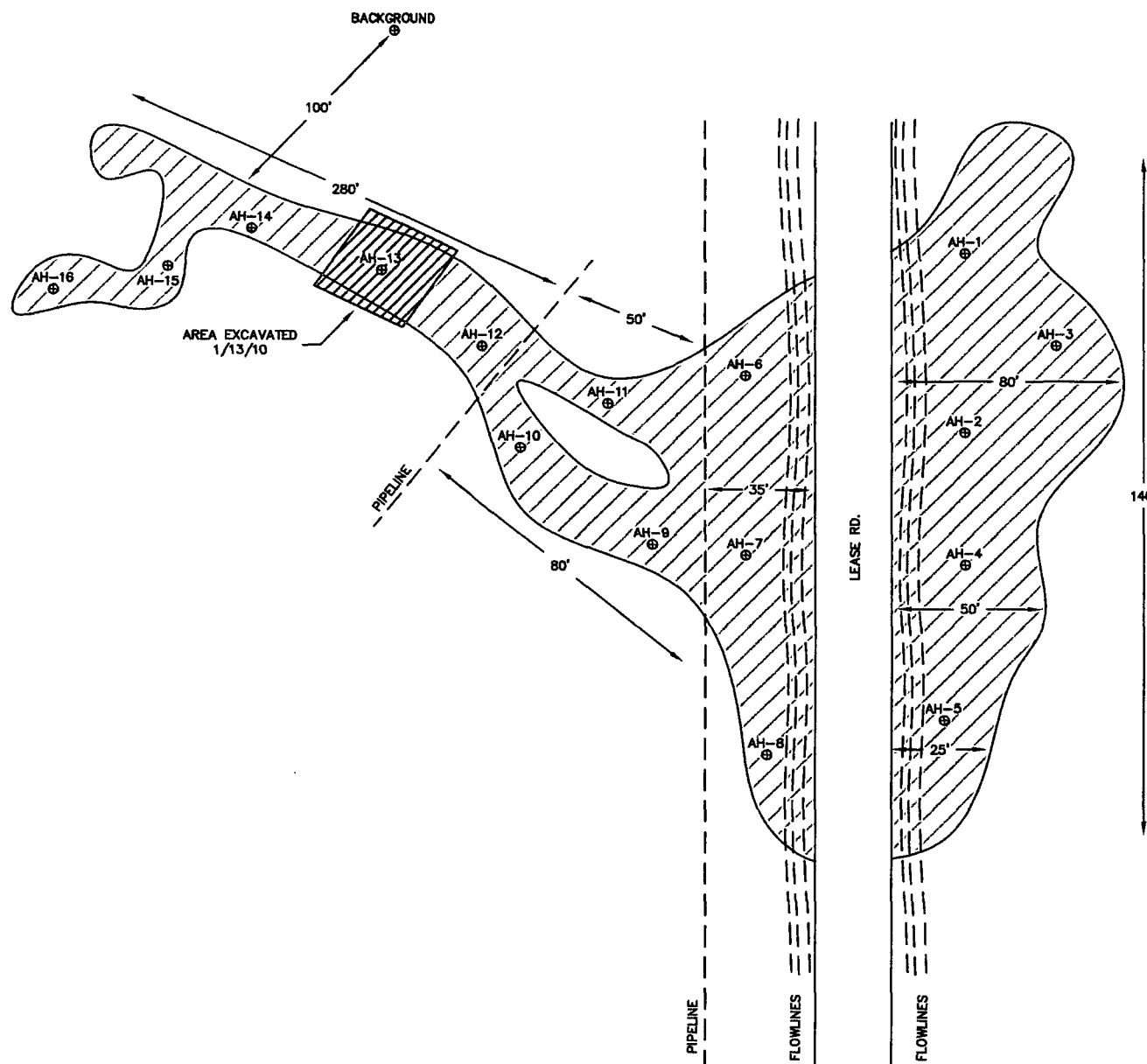


Scale 1 : 24,000



1" = 2,000.0 ft

Data Zoom 13-0



SPILL AREA
SAMPLE LOCATIONS

NOT TO SCALE

DATE:
10/29/09
DWN. BY:
JJ
FILE:
H:\COG\6400324
SKELLY 601

FIGURE NO. 3

EDDY COUNTY, NEW MEXICO

COG OPERATING LLC

SKELLY 601

TETRA TECH, INC.
MIDLAND, TEXAS

TABLES

Table 1
COG Operating LLC
Skelly 601 Tank Battery
Eddy County, New Mexico

[illegible]

Table 1
COG Operating LLC
Skelly 601 Tank Battery
Eddy County, New Mexico

[illegible]

Table 1
COG Operating LLC
Skelly 601 Tank Battery
Eddy County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chloride (mg/kg)
AH-15	10/27/2009	0-1'	X		<50.0	<1.00	<51.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.01	<200
		1-1.5'	X		--	--	--	--	--	--	--	--	<200
		2-2.5'	X		--	--	--	--	--	--	--	--	<200
		3-3.5'	X		--	--	--	--	--	--	--	--	<200
AH-16	10/27/2009	0-1'	X		2080	550	2630	<0.200	<0.200	0.966	0.973	1.939	<200
		1-1.5'	X		--	--	--	--	--	--	--	--	<200
		2-2.5'	X		--	--	--	--	--	--	--	--	<200
		3-3.5'	X		--	--	--	--	--	--	--	--	<200
Background	10/27/2009	0-1'	X		--	--	--	--	--	--	--	--	<200
		1-1.5'	X		--	--	--	--	--	--	--	--	<200
		2-2.5'	X		--	--	--	--	--	--	--	--	<200
		3-3.5'	X		--	--	--	--	--	--	--	--	<200
		4-4.5'	X		--	--	--	--	--	--	--	--	<200
		6-6.5'	X		--	--	--	--	--	--	--	--	<200

(--) Not analyzed

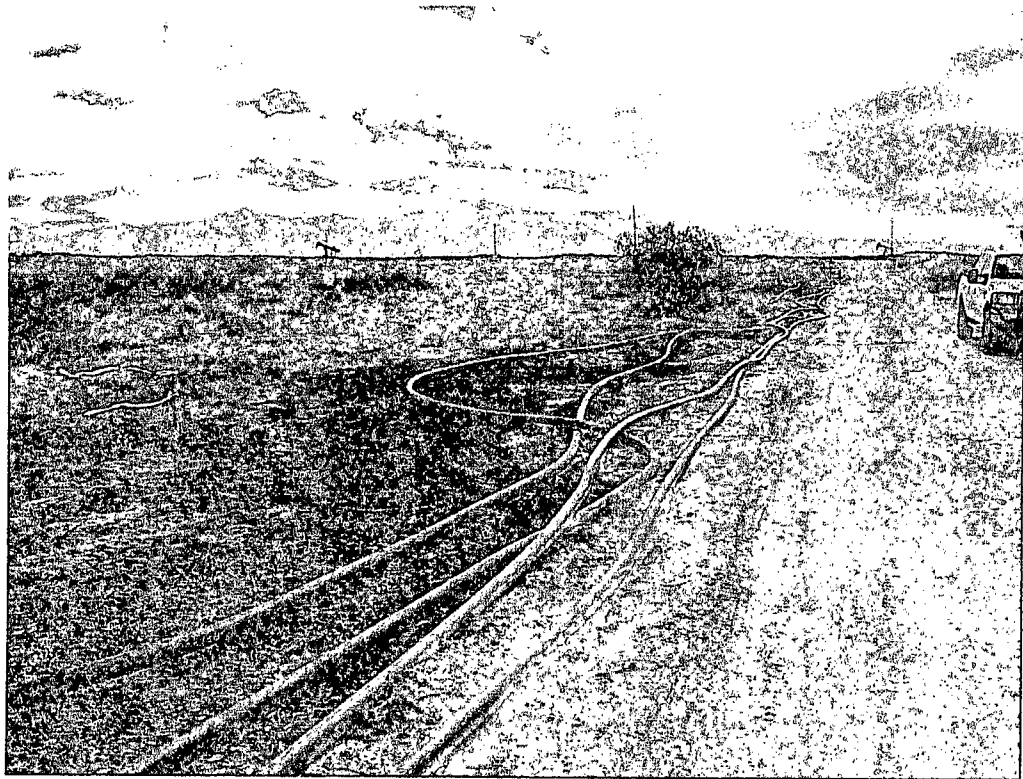
Excavated Area

PHOTOGRAPHS

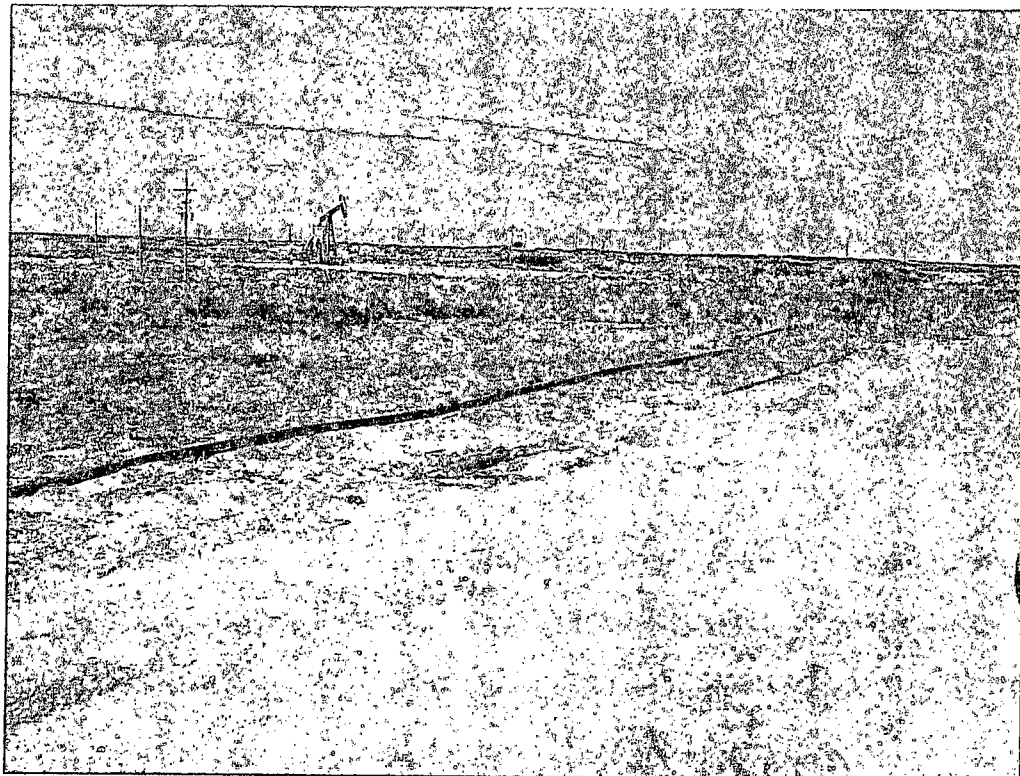
COG
Skelly 601
Eddy Co., NM



TETRA TECH

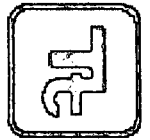


Overspray area east of road

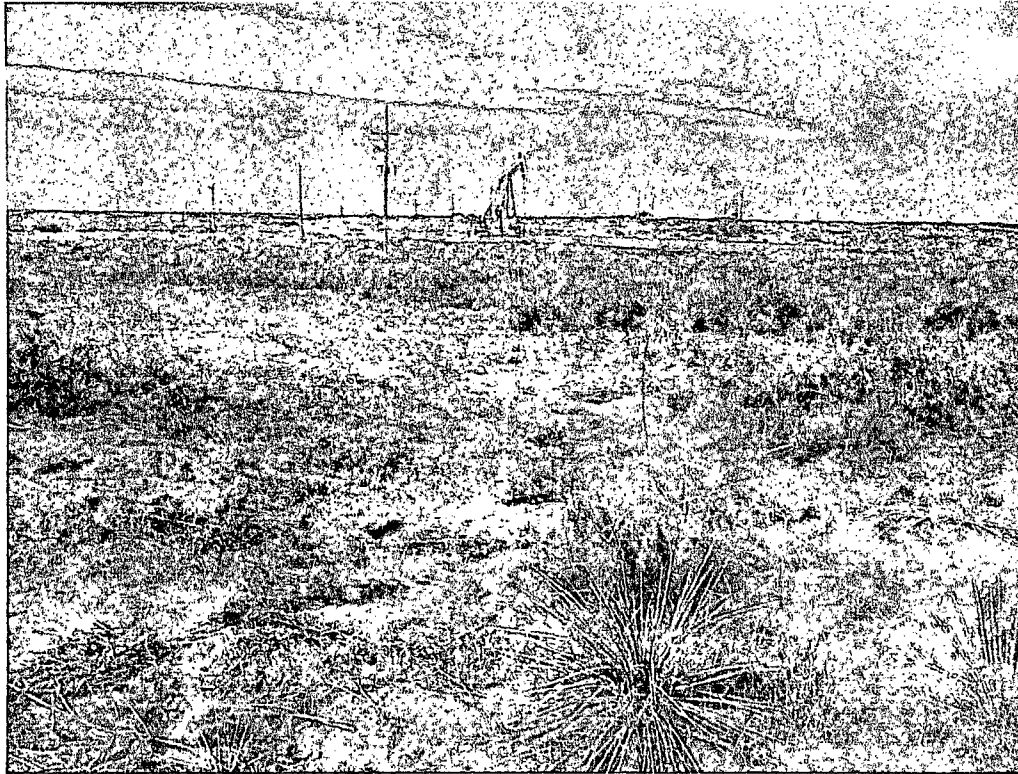


Native low-lying area and channel to the north-west

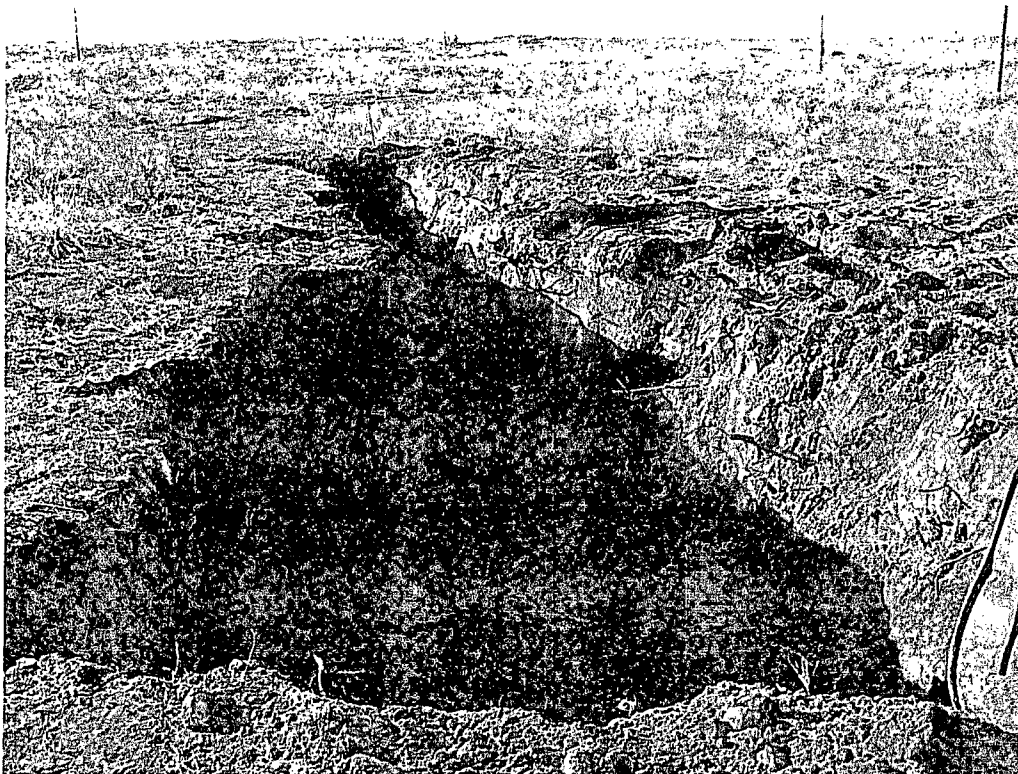
COG
Skelly 601
Eddy Co., NM



TETRA TECH



Facing north-west along down slope of run off



Post excavation near AH-13

APPENDIX A

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company COG Operating LLC	Contact Pat Ellis	
Address 550 W. Texas, Suite 1300 Midland, Texas 79701	Telephone No. (432) 685-4332	
Facility Name Skelly Unit #601	Facility Type Tank Battery	
Surface Owner Federal	Mineral Owner	Lease No. 30-015-36447

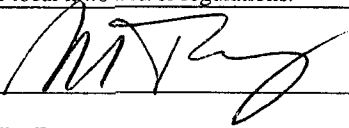
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	17S	31E	2310	South	310	West	Eddy

Latitude N 32.82293°

Longitude 103.88138°

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 80 bbls	Volume Recovered 60 bbls
Source of Release Flowline	Date and Hour of Occurrence 08/13/09	Date and Hour of Discovery 08/13/09
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher - NMOCD Dist 2 Jim Amos - BLM	
By Whom? Pat Ellis - Hand delivered notice to Mr. Bratcher	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Pinhole leak on the flowline.		
Describe Area Affected and Cleanup Action Taken.* Tetra Tech inspected site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled to proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Ike Tavarez	Approved by District Supervisor:	
Title: Senior Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@tetrattech.com	Conditions of Approval:	
Date: 1/28/10	Phone: (432) 682-4559	Attached ☐

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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	Kanicia Carrillo
Address	550 W. Texas, Suite 130 Midland, TX 79701	Telephone No.	432-685-4332
Facility Name	Skelly Unit #601	Facility Type	Battery

Surface Owner	Federal	Mineral Owner		Lease No.	30-015-36447
---------------	---------	---------------	--	-----------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	17S	31E	2310	South	310	West	Eddy

Latitude Longitude

NATURE OF RELEASE

Type of Release-Produced Water	Volume of Release-80bbbls	Volume Recovered- 60bbbls
Source of Release- Flowline	Date and Hour of Occurrence- 8/13/09	Date and Hour of Discovery 8/13/09
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Pinhole leak on the flowline.

Describe Area Affected and Cleanup Action Taken.*
A run off 25 yards east.
Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD/BLM for your 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: Kanicia Carrillo		Approved by District Supervisor:	
Title: Regulatory Analyst		Approval Date:	Expiration Date:
E-mail Address: kcarrillo@conchoresources.com		Conditions of Approval:	
Date: 09/25/09 Phone: 432-685-4332		Attached ☐	

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
St. Mary - ESDU Injection Station
Eddy County, New Mexico

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

16 South 31 East					
6	5	4	3	2	1
7	8	9	10	11	12
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 32 East					
6	5	4	3	65	2
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 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	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 32 East					
6	5	4	82	3	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

18 South 31 East					
6	5	4	3	2	1
7	8	9	10	11	12
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 32 East					
6	5	4	65	3	2
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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

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

34 NMOCD - Groundwater Data

123 Field water level

362 New Mexico Water and Infrastructure Data System

NM WAIDS

[DATA](#)[MAPS](#)[HOME](#)[SCALE](#)[CORROSION](#)

General Information About: Sample 2392

Section/ Township/Range	34 / 17 S / 31 E	Lat/Long	32.7908 / -103.8566
Elevation	3799	Depth	362
Date Collected	12/6/1948	Chlorides	54
Collector / Point of Collection	USG / DP	Use	Stock
Formation	SANTA ROSA	TDS	0



APPENDIX C

Summary Report

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

Report Date: November 9, 2009

Work Order: 9110220



Project Name: Skelly 601
Project Number: 114-6400324

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213719	AH-1 0-1	soil	2009-10-27	00:00	2009-10-30
213720	AH-1 1-1.5	soil	2009-10-27	00:00	2009-10-30
213721	AH-1 2-2.5	soil	2009-10-27	00:00	2009-10-30
213722	AH-2 0-1	soil	2009-10-27	00:00	2009-10-30
213723	AH-2 1-1.5	soil	2009-10-27	00:00	2009-10-30
213724	AH-2 2-2.5	soil	2009-10-27	00:00	2009-10-30
213725	AH-3 0-1	soil	2009-10-27	00:00	2009-10-30
213726	AH-3 1-1.5	soil	2009-10-27	00:00	2009-10-30
213727	AH-3 2-2.5	soil	2009-10-27	00:00	2009-10-30
213728	AH-4 0-1	soil	2009-10-27	00:00	2009-10-30
213729	AH-4 1-1.5	soil	2009-10-27	00:00	2009-10-30
213730	AH-4 2-2.5	soil	2009-10-27	00:00	2009-10-30
213731	AH-5 0-1	soil	2009-10-27	00:00	2009-10-30
213732	AH-5 1-1.5	soil	2009-10-27	00:00	2009-10-30
213733	AH-5 2-2.5	soil	2009-10-27	00:00	2009-10-30
213734	AH-6 0-1	soil	2009-10-27	00:00	2009-10-30
213735	AH-6 1-1.5	soil	2009-10-27	00:00	2009-10-30
213736	AH-6 2-2.5	soil	2009-10-27	00:00	2009-10-30
213737	AH-6 3-3.5	soil	2009-10-27	00:00	2009-10-30
213738	AH-7 0-1	soil	2009-10-27	00:00	2009-10-30
213739	AH-7 1-1.5	soil	2009-10-27	00:00	2009-10-30
213740	AH-7 2-2.5	soil	2009-10-27	00:00	2009-10-30
213741	AH-8 0-1	soil	2009-10-27	00:00	2009-10-30
213742	AH-8 1-1.5	soil	2009-10-27	00:00	2009-10-30
213743	AH-8 2-2.5	soil	2009-10-27	00:00	2009-10-30
213744	AH-9 0-1	soil	2009-10-27	00:00	2009-10-30
213745	AH-9 1-1.5	soil	2009-10-27	00:00	2009-10-30
213746	AH-9 2-2.5	soil	2009-10-27	00:00	2009-10-30
213747	AH-10 0-1	soil	2009-10-27	00:00	2009-10-30
213748	AH-10 1-1.5	soil	2009-10-27	00:00	2009-10-30
213749	AH-10 2-2.5	soil	2009-10-27	00:00	2009-10-30

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213750	AH-11 0-1	soil	2009-10-27	00:00	2009-10-30
213751	AH-11 1-1.5	soil	2009-10-27	00:00	2009-10-30
213752	AH-11 2-2.5	soil	2009-10-27	00:00	2009-10-30
213753	AH-12 0-1	soil	2009-10-27	00:00	2009-10-30
213754	AH-12 1-1.5	soil	2009-10-27	00:00	2009-10-30
213755	AH-12 2-2.5	soil	2009-10-27	00:00	2009-10-30
213756	AH-12 3-3.5	soil	2009-10-27	00:00	2009-10-30
213763	AH-13 0-1	soil	2009-10-27	00:00	2009-10-30
213764	AH-13 1-1.5	soil	2009-10-27	00:00	2009-10-30
213765	AH-13 2-2.5	soil	2009-10-27	00:00	2009-10-30
213766	AH-13 3-3.5	soil	2009-10-27	00:00	2009-10-30
213772	AH-14 0-1	soil	2009-10-27	00:00	2009-10-30
213773	AH-14 1-1.5	soil	2009-10-27	00:00	2009-10-30
213774	AH-14 2-2.5	soil	2009-10-27	00:00	2009-10-30
213775	AH-14 3-3.5	soil	2009-10-27	00:00	2009-10-30
213781	AH-15 0-1	soil	2009-10-27	00:00	2009-10-30
213782	AH-15 1-1.5	soil	2009-10-27	00:00	2009-10-30
213783	AH-15 2-2.5	soil	2009-10-27	00:00	2009-10-30
213784	AH-15 3-3.5	soil	2009-10-27	00:00	2009-10-30
213787	AH-16 0-1	soil	2009-10-27	00:00	2009-10-30
213788	AH-16 1-1.5	soil	2009-10-27	00:00	2009-10-30
213789	AH-16 2-2.5	soil	2009-10-27	00:00	2009-10-30
213790	AH-16 3-3.5	soil	2009-10-27	00:00	2009-10-30
213793	Background 0-1	soil	2009-10-27	00:00	2009-10-30
213794	Background 1-1.5	soil	2009-10-27	00:00	2009-10-30
213795	Background 2-2.5	soil	2009-10-27	00:00	2009-10-30
213796	Background 3-3.5	soil	2009-10-27	00:00	2009-10-30
213797	Background 4-4.5	soil	2009-10-27	00:00	2009-10-30
213798	Background 6-6.5	soil	2009-10-27	00:00	2009-10-30

Sample - Field Code	BTEX				TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	
213719 - AH-1 0-1	<0.0100	<0.0100	<0.0100	<0.0100	<1.00
213722 - AH-2 0-1					<1.00
213725 - AH-3 0-1	<0.0100	<0.0100	<0.0100	<0.0100	<1.00
213728 - AH-4 0-1					<1.00
213731 - AH-5 0-1	<0.0100	<0.0100	<0.0100	<0.0100	<1.00
213734 - AH-6 0-1					<1.00
213738 - AH-7 0-1	<0.0100	<0.0100	<0.0100	<0.0100	8.06
213741 - AH-8 0-1	<0.100	<0.100	<0.100	<0.100	43.0
213744 - AH-9 0-1					<1.00
213747 - AH-10 0-1					<1.00
213750 - AH-11 0-1	<0.0500	<0.0500	<0.0500	<0.0500	16.4
213763 - AH-13 0-1	<0.0500	<0.0500	<0.0500	<0.0500	42.0
213772 - AH-14 0-1	<0.200	<0.200	1.53	2.33	850
213781 - AH-15 0-1	<0.0100	<0.0100	<0.0100	<0.0100	<1.00
213787 - AH-16 0-1	<0.200	<0.200	0.966	0.973	550

Sample: 213719 - AH-1 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213720 - AH-1 1-1.5

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

Sample: 213721 - AH-1 2-2.5

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

Sample: 213722 - AH-2 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213723 - AH-2 1-1.5

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

Sample: 213724 - AH-2 2-2.5

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

Sample: 213725 - AH-3 0-1

Param	Flag	Result	Units	RL
Chloride		622	mg/Kg	4.00
DRO		52.8	mg/Kg	50.0

Sample: 213726 - AH-3 1-1.5

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

Sample: 213727 - AH-3 2-2.5

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

Sample: 213728 - AH-4 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213729 - AH-4 1-1.5

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

Sample: 213730 - AH-4 2-2.5

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

Sample: 213731 - AH-5 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213732 - AH-5 1-1.5

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

Sample: 213733 - AH-5 2-2.5

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

Sample: 213734 - AH-6 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213735 - AH-6 1-1.5

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

Sample: 213736 - AH-6 2-2.5

Param	Flag	Result	Units	RL
Chloride		502	mg/Kg	4.00

Sample: 213737 - AH-6 3-3.5

Param	Flag	Result	Units	RL
Chloride		338	mg/Kg	4.00

Sample: 213738 - AH-7 0-1

Param	Flag	Result	Units	RL
Chloride		769	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213739 - AH-7 1-1.5

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

Sample: 213740 - AH-7 2-2.5

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

Sample: 213741 - AH-8 0-1

Param	Flag	Result	Units	RL
Chloride		439	mg/Kg	4.00
DRO		774	mg/Kg	50.0

Sample: 213742 - AH-8 1-1.5

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

Sample: 213743 - AH-8 2-2.5

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

Sample: 213744 - AH-9 0-1

Param	Flag	Result	Units	RL
Chloride		904	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213745 - AH-9 1-1.5

Param	Flag	Result	Units	RL
Chloride		521	mg/Kg	4.00

Sample: 213746 - AH-9 2-2.5

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

Sample: 213747 - AH-10 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213748 - AH-10 1-1.5*continued ...*

sample 213748 continued ...

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

Sample: 213749 - AH-10 2-2.5

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

Sample: 213750 - AH-11 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		1470	mg/Kg	50.0

Sample: 213751 - AH-11 1-1.5

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

Sample: 213752 - AH-11 2-2.5

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

Sample: 213753 - AH-12 0-1

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

Sample: 213754 - AH-12 1-1.5

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

Sample: 213755 - AH-12 2-2.5

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

Sample: 213756 - AH-12 3-3.5

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

Sample: 213763 - AH-13 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		685	mg/Kg	50.0

Sample: 213764 - AH-13 1-1.5

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

Sample: 213765 - AH-13 2-2.5

Param	Flag	Result	Units	RL
Chloride		236	mg/Kg	4.00

Sample: 213766 - AH-13 3-3.5

Param	Flag	Result	Units	RL
Chloride		1380	mg/Kg	4.00

Sample: 213772 - AH-14 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		1550	mg/Kg	50.0

Sample: 213773 - AH-14 1-1.5

Param	Flag	Result	Units	RL
Chloride		551	mg/Kg	4.00

Sample: 213774 - AH-14 2-2.5

Param	Flag	Result	Units	RL
Chloride		230	mg/Kg	4.00

Sample: 213775 - AH-14 3-3.5

Param	Flag	Result	Units	RL
Chloride		276	mg/Kg	4.00

Sample: 213781 - AH-15 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		<50.0	mg/Kg	50.0

Sample: 213782 - AH-15 1-1.5

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

Sample: 213783 - AH-15 2-2.5

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

Sample: 213784 - AH-15 3-3.5

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

Sample: 213787 - AH-16 0-1

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
DRO		2080	mg/Kg	50.0

Sample: 213788 - AH-16 1-1.5

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

Sample: 213789 - AH-16 2-2.5

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

Sample: 213790 - AH-16 3-3.5

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

Sample: 213793 - Background 0-1

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

Sample: 213794 - Background 1-1.5

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

Sample: 213795 - Background 2-2.5

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

Sample: 213796 - Background 3-3.5

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

Sample: 213797 - Background 4-4.5

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

Sample: 213798 - Background 6-6.5

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



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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

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

Report Date: November 9, 2009

Work Order: 9110220



Project Name: Skelly 601
Project Number: 114-6400324

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
213719	AH-1 0-1	soil	2009-10-27	00:00	2009-10-30
213720	AH-1 1-1.5	soil	2009-10-27	00:00	2009-10-30
213721	AH-1 2-2.5	soil	2009-10-27	00:00	2009-10-30
213722	AH-2 0-1	soil	2009-10-27	00:00	2009-10-30
213723	AH-2 1-1.5	soil	2009-10-27	00:00	2009-10-30
213724	AH-2 2-2.5	soil	2009-10-27	00:00	2009-10-30
213725	AH-3 0-1	soil	2009-10-27	00:00	2009-10-30
213726	AH-3 1-1.5	soil	2009-10-27	00:00	2009-10-30
213727	AH-3 2-2.5	soil	2009-10-27	00:00	2009-10-30
213728	AH-4 0-1	soil	2009-10-27	00:00	2009-10-30
213729	AH-4 1-1.5	soil	2009-10-27	00:00	2009-10-30

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213730	AH-4 2-2.5	soil	2009-10-27	00:00	2009-10-30
213731	AH-5 0-1	soil	2009-10-27	00:00	2009-10-30
213732	AH-5 1-1.5	soil	2009-10-27	00:00	2009-10-30
213733	AH-5 2-2.5	soil	2009-10-27	00:00	2009-10-30
213734	AH-6 0-1	soil	2009-10-27	00:00	2009-10-30
213735	AH-6 1-1.5	soil	2009-10-27	00:00	2009-10-30
213736	AH-6 2-2.5	soil	2009-10-27	00:00	2009-10-30
213737	AH-6 3-3.5	soil	2009-10-27	00:00	2009-10-30
213738	AH-7 0-1	soil	2009-10-27	00:00	2009-10-30
213739	AH-7 1-1.5	soil	2009-10-27	00:00	2009-10-30
213740	AH-7 2-2.5	soil	2009-10-27	00:00	2009-10-30
213741	AH-8 0-1	soil	2009-10-27	00:00	2009-10-30
213742	AH-8 1-1.5	soil	2009-10-27	00:00	2009-10-30
213743	AH-8 2-2.5	soil	2009-10-27	00:00	2009-10-30
213744	AH-9 0-1	soil	2009-10-27	00:00	2009-10-30
213745	AH-9 1-1.5	soil	2009-10-27	00:00	2009-10-30
213746	AH-9 2-2.5	soil	2009-10-27	00:00	2009-10-30
213747	AH-10 0-1	soil	2009-10-27	00:00	2009-10-30
213748	AH-10 1-1.5	soil	2009-10-27	00:00	2009-10-30
213749	AH-10 2-2.5	soil	2009-10-27	00:00	2009-10-30
213750	AH-11 0-1	soil	2009-10-27	00:00	2009-10-30
213751	AH-11 1-1.5	soil	2009-10-27	00:00	2009-10-30
213752	AH-11 2-2.5	soil	2009-10-27	00:00	2009-10-30
213753	AH-12 0-1	soil	2009-10-27	00:00	2009-10-30
213754	AH-12 1-1.5	soil	2009-10-27	00:00	2009-10-30
213755	AH-12 2-2.5	soil	2009-10-27	00:00	2009-10-30
213756	AH-12 3-3.5	soil	2009-10-27	00:00	2009-10-30
213763	AH-13 0-1	soil	2009-10-27	00:00	2009-10-30
213764	AH-13 1-1.5	soil	2009-10-27	00:00	2009-10-30
213765	AH-13 2-2.5	soil	2009-10-27	00:00	2009-10-30
213766	AH-13 3-3.5	soil	2009-10-27	00:00	2009-10-30
213772	AH-14 0-1	soil	2009-10-27	00:00	2009-10-30
213773	AH-14 1-1.5	soil	2009-10-27	00:00	2009-10-30
213774	AH-14 2-2.5	soil	2009-10-27	00:00	2009-10-30
213775	AH-14 3-3.5	soil	2009-10-27	00:00	2009-10-30
213781	AH-15 0-1	soil	2009-10-27	00:00	2009-10-30
213782	AH-15 1-1.5	soil	2009-10-27	00:00	2009-10-30
213783	AH-15 2-2.5	soil	2009-10-27	00:00	2009-10-30
213784	AH-15 3-3.5	soil	2009-10-27	00:00	2009-10-30
213787	AH-16 0-1	soil	2009-10-27	00:00	2009-10-30
213788	AH-16 1-1.5	soil	2009-10-27	00:00	2009-10-30
213789	AH-16 2-2.5	soil	2009-10-27	00:00	2009-10-30
213790	AH-16 3-3.5	soil	2009-10-27	00:00	2009-10-30
213793	Background 0-1	soil	2009-10-27	00:00	2009-10-30
213794	Background 1-1.5	soil	2009-10-27	00:00	2009-10-30
213795	Background 2-2.5	soil	2009-10-27	00:00	2009-10-30

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213796	Background 3-3.5	soil	2009-10-27	00:00	2009-10-30
213797	Background 4-4.5	soil	2009-10-27	00:00	2009-10-30
213798	Background 6-6.5	soil	2009-10-27	00:00	2009-10-30

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 52 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 Skelly 601 were received by TraceAnalysis, Inc. on 2009-10-30 and assigned to work order 9110220. Samples for work order 9110220 were received intact at a temperature of 3.6 deg. 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	55586	2009-11-05 at 14:00	65066	2009-11-05 at 10:28
Chloride (Titration)	SM 4500-Cl B	55496	2009-11-03 at 12:18	65007	2009-11-04 at 14:54
Chloride (Titration)	SM 4500-Cl B	55497	2009-11-03 at 14:18	65039	2009-11-05 at 11:19
Chloride (Titration)	SM 4500-Cl B	55498	2009-11-03 at 12:19	65040	2009-11-05 at 11:20
Chloride (Titration)	SM 4500-Cl B	55499	2009-11-03 at 12:20	65041	2009-11-05 at 11:21
Chloride (Titration)	SM 4500-Cl B	55500	2009-11-03 at 12:20	65042	2009-11-05 at 11:22
Chloride (Titration)	SM 4500-Cl B	55501	2009-11-03 at 12:21	65043	2009-11-05 at 11:23
Chloride (Titration)	SM 4500-Cl B	55502	2009-11-03 at 12:22	65044	2009-11-05 at 11:24
TPH DRO - NEW	Mod. 8015B	55515	2009-11-03 at 13:26	64968	2009-11-03 at 13:26
TPH DRO - NEW	Mod. 8015B	55516	2009-11-03 at 13:26	64969	2009-11-03 at 13:26
TPH GRO	S 8015B	55586	2009-11-05 at 14:00	65068	2009-11-05 at 10:55

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 9110220 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.

Report Date: November 9, 2009
114-6400324

Work Order: 9110220
Skelly 601

Page Number: 5 of 52

Analytical Report

Sample: 213719 - AH-1 0-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 65066

Prep Batch: 55586

Analytical Method: S 8021B

Date Analyzed: 2009-11-05

Sample Preparation: 2009-11-05

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	45.2 - 144.3

Sample: 213719 - AH-1 0-1

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 65007

Prep Batch: 55496

Analytical Method: SM 4500-Cl B

Date Analyzed: 2009-11-04

Sample Preparation: 2009-11-03

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

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

Sample: 213719 - AH-1 0-1

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 64969

Prep Batch: 55516

Analytical Method: Mod. 8015B

Date Analyzed: 2009-11-03

Sample Preparation: 2009-11-03

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

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

Report Date: November 9, 2009
114-6400324

Work Order: 9110220
Skelly 601

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		133	mg/Kg	1	100	133	48.5 - 146

Sample: 213719 - AH-1 0-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65068
Prep Batch: 55586

Analytical Method: S 8015B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	31 - 135

Sample: 213720 - AH-1 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65039
Prep Batch: 55497

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213721 - AH-1 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65039
Prep Batch: 55497

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

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Sample: 213722 - AH-2 0-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213722 - AH-2 0-1

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2009-11-03	Analyzed By:	kg
QC Batch:	64968	Sample Preparation:	2009-11-03	Prepared By:	kg
Prep Batch:	55515				

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		124	mg/Kg	1	100	124	48.5 - 146

Sample: 213722 - AH-2 0-1

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65068	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.60	mg/Kg	1	2.00	80	31 - 135

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Sample: 213723 - AH-2 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213724 - AH-2 2-2.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213725 - AH-3 0-1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65066	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.65	mg/Kg	1	2.00	82	45.2 - 144.3

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Sample: 213725 - AH-3 0-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		622	mg/Kg	50	4.00

Sample: 213725 - AH-3 0-1

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2009-11-03	Analyzed By:	kg
QC Batch:	64969	Sample Preparation:	2009-11-03	Prepared By:	kg
Prep Batch:	55516				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		52.8	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		130	mg/Kg	1	100	130	48.5 - 146

Sample: 213725 - AH-3 0-1

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65068	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.60	mg/Kg	1	2.00	80	31 - 135

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Sample: 213726 - AH-3 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213727 - AH-3 2-2.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213728 - AH-4 0-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65039	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55497				

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

Sample: 213728 - AH-4 0-1

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2009-11-03	Analyzed By:	kg
QC Batch:	64969	Sample Preparation:	2009-11-03	Prepared By:	kg
Prep Batch:	55516				

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

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		126	mg/Kg	1	100	126	48.5 - 146

Sample: 213728 - AH-4 0-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65068
Prep Batch: 55586

Analytical Method: S 8015B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	1	2.00	77	31 - 135

Sample: 213729 - AH-4 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65039
Prep Batch: 55497

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213730 - AH-4 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65040
Prep Batch: 55498

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

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Sample: 213731 - AH-5 0-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 65066
Prep Batch: 55586

Analytical Method: S 8021B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.57	mg/Kg	1	2.00	78	45.2 - 144.3

Sample: 213731 - AH-5 0-1

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65040
Prep Batch: 55498

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213731 - AH-5 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 64969
Prep Batch: 55516

Analytical Method: Mod. 8015B
Date Analyzed: 2009-11-03
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL	Units	Dilution	RL
		Result			
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	48.5 - 146

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Sample: 213731 - AH-5 0-1

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65068	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	1	2.00	77	31 - 135

Sample: 213732 - AH-5 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65040	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55498				

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

Sample: 213733 - AH-5 2-2.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65040	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55498				

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

Sample: 213734 - AH-6 0-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65040	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55498				

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

Sample: 213734 - AH-6 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 64969
Prep Batch: 55516

Analytical Method: Mod. 8015B
Date Analyzed: 2009-11-03
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: kg
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		132	mg/Kg	1	100	132	48.5 - 146

Sample: 213734 - AH-6 0-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65068
Prep Batch: 55586

Analytical Method: S 8015B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	31 - 135

Sample: 213735 - AH-6 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65040
Prep Batch: 55498

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213736 - AH-6 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65040 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55498 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		502	mg/Kg	50	4.00

Sample: 213737 - AH-6 3-3.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65040 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55498 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213738 - AH-7 0-1

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 65066 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	45.2 - 144.3

Sample: 213738 - AH-7 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65040 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55498 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		769	mg/Kg	50	4.00

Sample: 213738 - AH-7 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55516 Sample Preparation: 2009-11-03 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		132	mg/Kg	1	100	132	48.5 - 146

Sample: 213738 - AH-7 0-1

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		8.06	mg/Kg	1	1.00

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	31 - 135

Sample: 213739 - AH-7 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65040 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55498 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213740 - AH-7 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213741 - AH-8 0-1

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 65066 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		<0.100	mg/Kg	10	0.0100
Ethylbenzene		<0.100	mg/Kg	10	0.0100
Xylene		<0.100	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.87	mg/Kg	10	10.0	99	49 - 129.7

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		8.29	mg/Kg	10	10.0	83	45.2 - 144.3

Sample: 213741 - AH-8 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		439	mg/Kg	50	4.00

Sample: 213741 - AH-8 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55516 Sample Preparation: 2009-11-03 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		774	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	¹	153	mg/Kg	1	100	153	48.5 - 146

Sample: 213741 - AH-8 0-1

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		43.0	mg/Kg	10	1.00

¹ High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.1	mg/Kg	10	10.0	101	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		8.50	mg/Kg	10	10.0	85	31 - 135

Sample: 213742 - AH-8 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213743 - AH-8 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213744 - AH-9 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		904	mg/Kg	50	4.00

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Sample: 213744 - AH-9 0-1

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2009-11-03	Analyzed By:	kg
QC Batch:	64969	Sample Preparation:	2009-11-03	Prepared By:	kg
Prep Batch:	55516				

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		131	mg/Kg	1	100	131	48.5 - 146

Sample: 213744 - AH-9 0-1

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65068	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	1	2.00	77	31 - 135

Sample: 213745 - AH-9 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65041	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55499				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		521	mg/Kg	50	4.00

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Sample: 213746 - AH-9 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213747 - AH-10 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213747 - AH-10 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55516 Sample Preparation: 2009-11-03 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		126	mg/Kg	1	100	126	48.5 - 146

Sample: 213747 - AH-10 0-1

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	31 - 135

Sample: 213748 - AH-10 1-1.5

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
 Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213749 - AH-10 2-2.5

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
 Prep Batch: 55499 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213750 - AH-11 0-1

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 65066 Date Analyzed: 2009-11-05 Analyzed By: AG
 Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		<0.0500	mg/Kg	5	0.0100
Ethylbenzene		<0.0500	mg/Kg	5	0.0100
Xylene		<0.0500	mg/Kg	5	0.0100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.96	mg/Kg	5	5.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		4.07	mg/Kg	5	5.00	81	45.2 - 144.3

Sample: 213750 - AH-11 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213750 - AH-11 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55516 Sample Preparation: 2009-11-03 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1470	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	²	186	mg/Kg	1	100	186	48.5 - 146

Sample: 213750 - AH-11 0-1

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		16.4	mg/Kg	5	1.00

²High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.01	mg/Kg	5	5.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		3.98	mg/Kg	5	5.00	80	31 - 135

Sample: 213751 - AH-11 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213752 - AH-11 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213753 - AH-12 0-1

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

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Sample: 213754 - AH-12 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65042	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55500				

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

Sample: 213755 - AH-12 2-2.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65042	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55500				

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

Sample: 213756 - AH-12 3-3.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65042	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55500				

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

Sample: 213763 - AH-13 0-1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65066	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		<0.0500	mg/Kg	5	0.0100

continued ...

sample 213763 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0500	mg/Kg	5	0.0100
Xylene		<0.0500	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.03	mg/Kg	5	5.00	101	49 - 129.7
4-Bromofluorobenzene (4-BFB)		4.08	mg/Kg	5	5.00	82	45.2 - 144.3

Sample: 213763 - AH-13 0-1

Laboratory: Midland
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
 Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213763 - AH-13 0-1

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
 QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
 Prep Batch: 55516 Sample Preparation: 2009-11-03 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		685	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	³	158	mg/Kg	1	100	158	48.5 - 146

Sample: 213763 - AH-13 0-1

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
 QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
 Prep Batch: 55586 Sample Preparation: 2009-11-05 Prepared By: AG

³High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		42.0	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.98	mg/Kg	5	5.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		4.01	mg/Kg	5	5.00	80	31 - 135

Sample: 213764 - AH-13 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

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

Sample: 213765 - AH-13 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		236	mg/Kg	50	4.00

Sample: 213766 - AH-13 3-3.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65043 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55501 Sample Preparation: 2009-11-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1380	mg/Kg	50	4.00

Sample: 213772 - AH-14 0-1

Laboratory: Midland	Analytical Method: S 8021B	Prep Method: S 5035
Analysis: BTEX	Date Analyzed: 2009-11-05	Analyzed By: AG
QC Batch: 65066	Sample Preparation: 2009-11-05	Prepared By: AG
Prep Batch: 55586		

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.200	mg/Kg	20	0.0100
Toluene		<0.200	mg/Kg	20	0.0100
Ethylbenzene		1.53	mg/Kg	20	0.0100
Xylene		2.33	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.8	mg/Kg	20	20.0	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		17.0	mg/Kg	20	20.0	85	45.2 - 144.3

Sample: 213772 - AH-14 0-1

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2009-11-05	Analyzed By: AR
QC Batch: 65043	Sample Preparation: 2009-11-03	Prepared By: AR
Prep Batch: 55501		

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

Sample: 213772 - AH-14 0-1

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO - NEW	Date Analyzed: 2009-11-03	Analyzed By: kg
QC Batch: 64969	Sample Preparation: 2009-11-03	Prepared By: kg
Prep Batch: 55516		

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1550	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁴	182	mg/Kg	1	100	182	48.5 - 146

⁴High surrogate recovery due to peak interference.

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Sample: 213772 - AH-14 0-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65068
Prep Batch: 55586

Analytical Method: S 8015B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		850	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.1	mg/Kg	20	20.0	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		27.1	mg/Kg	20	20.0	136	31 - 135

Sample: 213773 - AH-14 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		551	mg/Kg	50	4.00

Sample: 213774 - AH-14 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		230	mg/Kg	50	4.00

Sample: 213775 - AH-14 3-3.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		276	mg/Kg	50	4.00

Sample: 213781 - AH-15 0-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 65066
Prep Batch: 55586

Analytical Method: S 8021B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	45.2 - 144.3

Sample: 213781 - AH-15 0-1

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213781 - AH-15 0-1

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 64969
Prep Batch: 55516

Analytical Method: Mod. 8015B
Date Analyzed: 2009-11-03
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

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

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		124	mg/Kg	1	100	124	48.5 - 146

Sample: 213781 - AH-15 0-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65068
Prep Batch: 55586

Analytical Method: S 8015B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-05

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	31 - 135

Sample: 213782 - AH-15 1-1.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

Sample: 213783 - AH-15 2-2.5

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 65043
Prep Batch: 55501

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-11-05
Sample Preparation: 2009-11-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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

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Sample: 213784 - AH-15 3-3.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65043	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55501				

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

Sample: 213787 - AH-16 0-1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65066	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.200	mg/Kg	20	0.0100
Toluene		<0.200	mg/Kg	20	0.0100
Ethylbenzene		0.966	mg/Kg	20	0.0100
Xylene		0.973	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.7	mg/Kg	20	20.0	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		17.4	mg/Kg	20	20.0	87	45.2 - 144.3

Sample: 213787 - AH-16 0-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65043	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55501				

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

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Sample: 213787 - AH-16 0-1

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2009-11-03	Analyzed By:	kg
QC Batch:	64969	Sample Preparation:	2009-11-03	Prepared By:	kg
Prep Batch:	55516				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2080	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁵	195	mg/Kg	1	100	195	48.5 - 146

Sample: 213787 - AH-16 0-1

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-11-05	Analyzed By:	AG
QC Batch:	65068	Sample Preparation:	2009-11-05	Prepared By:	AG
Prep Batch:	55586				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		550	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.8	mg/Kg	20	20.0	99	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		23.0	mg/Kg	20	20.0	115	31 - 135

Sample: 213788 - AH-16 1-1.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-11-05	Analyzed By:	AR
QC Batch:	65044	Sample Preparation:	2009-11-03	Prepared By:	AR
Prep Batch:	55502				

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

⁵High surrogate recovery due to peak interference.

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Sample: 213789 - AH-16 2-2.5

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	65044	Date Analyzed:	2009-11-05
Prep Batch:	55502	Sample Preparation:	2009-11-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

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

Sample: 213790 - AH-16 3-3.5

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	65044	Date Analyzed:	2009-11-05
Prep Batch:	55502	Sample Preparation:	2009-11-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

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

Sample: 213793 - Background 0-1

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	65044	Date Analyzed:	2009-11-05
Prep Batch:	55502	Sample Preparation:	2009-11-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

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

Sample: 213794 - Background 1-1.5

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	65044	Date Analyzed:	2009-11-05
Prep Batch:	55502	Sample Preparation:	2009-11-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

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

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Sample: 213795 - Background 2-2.5

Laboratory:	Midland			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: N/A
QC Batch:	65044	Date Analyzed:	2009-11-05	Analyzed By: AR
Prep Batch:	55502	Sample Preparation:	2009-11-03	Prepared By: AR

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

Sample: 213796 - Background 3-3.5

Laboratory:	Midland			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: N/A
QC Batch:	65044	Date Analyzed:	2009-11-05	Analyzed By: AR
Prep Batch:	55502	Sample Preparation:	2009-11-03	Prepared By: AR

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

Sample: 213797 - Background 4-4.5

Laboratory:	Midland			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: N/A
QC Batch:	65044	Date Analyzed:	2009-11-05	Analyzed By: AR
Prep Batch:	55502	Sample Preparation:	2009-11-03	Prepared By: AR

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

Sample: 213798 - Background 6-6.5

Laboratory:	Midland			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: N/A
QC Batch:	65044	Date Analyzed:	2009-11-05	Analyzed By: AR
Prep Batch:	55502	Sample Preparation:	2009-11-03	Prepared By: AR

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

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Method Blank (1) QC Batch: 64968

QC Batch: 64968 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55515 QC Preparation: 2009-11-03 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	48.5 - 146

Method Blank (1) QC Batch: 64969

QC Batch: 64969 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55516 QC Preparation: 2009-11-03 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		120	mg/Kg	1	100	120	48.5 - 146

Method Blank (1) QC Batch: 65007

QC Batch: 65007 Date Analyzed: 2009-11-04 Analyzed By: AR
Prep Batch: 55496 QC Preparation: 2009-11-03 Prepared By: AR

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

Method Blank (1) QC Batch: 65039

QC Batch: 65039 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55497 QC Preparation: 2009-11-03 Prepared By: AR

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

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Method Blank (1) QC Batch: 65040

QC Batch: 65040
Prep Batch: 55498

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 65041

QC Batch: 65041
Prep Batch: 55499

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 65042

QC Batch: 65042
Prep Batch: 55500

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 65043

QC Batch: 65043
Prep Batch: 55501

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 65044

QC Batch: 65044
Prep Batch: 55502

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 65066

QC Batch: 65066 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 QC Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.80	mg/Kg	1	2.00	90	51.9 - 128.1

Method Blank (1) QC Batch: 65068

QC Batch: 65068 Date Analyzed: 2009-11-05 Analyzed By: AG
Prep Batch: 55586 QC Preparation: 2009-11-05 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	38.1 - 146.2

Laboratory Control Spike (LCS-1)

QC Batch: 64968 Date Analyzed: 2009-11-03 Analyzed By: kg
Prep Batch: 55515 QC Preparation: 2009-11-03 Prepared By: kg

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	217	mg/Kg	1	250	<5.86	87	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
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	219	mg/Kg	1	250	<5.86	88	57.4 - 133.4	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
n-Tricosane	96.0	101	mg/Kg	1	100	96	101	48.5 - 146

Laboratory Control Spike (LCS-1)

QC Batch: 64969
Prep Batch: 55516

Date Analyzed: 2009-11-03
QC Preparation: 2009-11-03

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	218	mg/Kg	1	250	<5.86	87	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
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	210	mg/Kg	1	250	<5.86	84	57.4 - 133.4	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
n-Tricosane	114	111	mg/Kg	1	100	114	111	48.5 - 146

Laboratory Control Spike (LCS-1)

QC Batch: 65007
Prep Batch: 55496

Date Analyzed: 2009-11-04
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	99	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	100	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 65039
Prep Batch: 55497

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	99	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	101	mg/Kg	1	100	<2.18	101	85 - 115	2	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: 65040
Prep Batch: 55498

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.8	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	101	mg/Kg	1	100	<2.18	101	85 - 115	1	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 65041
Prep Batch: 55499

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	102	mg/Kg	1	100	<2.18	102	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	101	mg/Kg	1	100	<2.18	101	85 - 115	1	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: 65042
Prep Batch: 55500

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.0	mg/Kg	1	100	<2.18	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.8	mg/Kg	1	100	<2.18	100	85 - 115	1	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: 65043
Prep Batch: 55501

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.2	mg/Kg	1	100	<2.18	99	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	100	mg/Kg	1	100	<2.18	100	85 - 115	1	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 65044
Prep Batch: 55502

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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	101	mg/Kg	1	100	<2.18	101	85 - 115	1	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: 65066
Prep Batch: 55586

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-05

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.84	mg/Kg	1	2.00	<0.00100	92	72.7 - 129.8
Toluene	1.84	mg/Kg	1	2.00	<0.00100	92	71.6 - 129.6
Ethylbenzene	1.82	mg/Kg	1	2.00	<0.00110	91	70.8 - 129.7
Xylene	5.46	mg/Kg	1	6.00	<0.00360	91	70.9 - 129.4

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
Benzene	1.89	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8	3	20
Toluene	1.91	mg/Kg	1	2.00	<0.00100	96	71.6 - 129.6	4	20
Ethylbenzene	1.90	mg/Kg	1	2.00	<0.00110	95	70.8 - 129.7	4	20
Xylene	5.70	mg/Kg	1	6.00	<0.00360	95	70.9 - 129.4	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)	1.97	2.00	mg/Kg	1	2.00	98	100	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.81	1.83	mg/Kg	1	2.00	90	92	55.2 - 158.9

Laboratory Control Spike (LCS-1)

QC Batch: 65068
Prep Batch: 55586

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-05

Analyzed By: AG
Prepared By: AG

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.0	mg/Kg	1	20.0	<0.482	80	60.5 - 120.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.3	mg/Kg	1	20.0	<0.482	82	60.5 - 120.1	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.10	2.09	mg/Kg	1	2.00	105	104	78.8 - 124.7
4-Bromofluorobenzene (4-BFB)	1.80	1.78	mg/Kg	1	2.00	90	89	66.1 - 128.3

Matrix Spike (MS-1) Spiked Sample: 213722

QC Batch: 64968
Prep Batch: 55515

Date Analyzed: 2009-11-03
QC Preparation: 2009-11-03

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	137	mg/Kg	1	250	<5.86	55	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	122	mg/Kg	1	250	<5.86	49	35.2 - 167.1	12	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	116	90.8	mg/Kg	1	100	116	91	48.5 - 146

Matrix Spike (MS-1) Spiked Sample: 213719

QC Batch: 64969
Prep Batch: 55516

Date Analyzed: 2009-11-03
QC Preparation: 2009-11-03

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	234	mg/Kg	1	250	<5.86	94	35.2 - 167.1

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

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	230	mg/Kg	1	250	<5.86	92	35.2 - 167.1	2	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	119	118	mg/Kg	1	100	119	118	48.5 - 146

Matrix Spike (MS-1) Spiked Sample: 213719

QC Batch: 65007
Prep Batch: 55496

Date Analyzed: 2009-11-04
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9830	mg/Kg	100	10000	<218	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	9920	mg/Kg	100	10000	<218	99	85 - 115	1	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: 213729

QC Batch: 65039
Prep Batch: 55497

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9670	mg/Kg	100	10000	<218	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	9800	mg/Kg	100	10000	<218	98	85 - 115	1	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: 213739

QC Batch: 65040
Prep Batch: 55498

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9820	mg/Kg	100	10000	<218	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	9970	mg/Kg	100	10000	<218	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: 213749

QC Batch: 65041 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55499 QC Preparation: 2009-11-03 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	10300	mg/Kg	100	10000	<218	103	85 - 115	1	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: 213765

QC Batch: 65042 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55500 QC Preparation: 2009-11-03 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	236	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	236	103	85 - 115	3	20

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

Matrix Spike (MS-1) Spiked Sample: 213787

QC Batch: 65043 Date Analyzed: 2009-11-05 Analyzed By: AR
Prep Batch: 55501 QC Preparation: 2009-11-03 Prepared By: AR

Report Date: November 9, 2009
114-6400324

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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	10100	mg/Kg	100	10000	<218	101	85 - 115	0	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: 213798

QC Batch: 65044
Prep Batch: 55502

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-03

Analyzed By: AR
Prepared By: AR

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

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	<218	105	85 - 115	1	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: 214044

QC Batch: 65066
Prep Batch: 55586

Date Analyzed: 2009-11-05
QC Preparation: 2009-11-05

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.14	mg/Kg	1	2.00	<0.00100	107	58.6 - 165.2
Toluene	2.18	mg/Kg	1	2.00	<0.00100	109	64.2 - 153.8
Ethylbenzene	2.20	mg/Kg	1	2.00	<0.00110	110	61.6 - 159.4
Xylene	6.55	mg/Kg	1	6.00	<0.00360	109	64.4 - 155.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.24	mg/Kg	1	2.00	<0.00100	112	58.6 - 165.2	5	20
Toluene	2.28	mg/Kg	1	2.00	<0.00100	114	64.2 - 153.8	4	20
Ethylbenzene	2.32	mg/Kg	1	2.00	<0.00110	116	61.6 - 159.4	5	20
Xylene	6.90	mg/Kg	1	6.00	<0.00360	115	64.4 - 155.3	5	20

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114-6400324

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.01	2.00	mg/Kg	1	2	100	100	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.72	1.69	mg/Kg	1	2	86	84	52 - 127.8

Matrix Spike (MS-1) Spiked Sample: 213734

QC Batch: 65068

Date Analyzed: 2009-11-05

Analyzed By: AG

Prep Batch: 55586

QC Preparation: 2009-11-05

Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	13.8	mg/Kg	1	20.0	<0.482	69	12.8 - 175.2

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 Limit
GRO	14.5	mg/Kg	1	20.0	<0.482	72	12.8 - 175.2	5 20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.95	1.95	mg/Kg	1	2	98	98	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.58	1.57	mg/Kg	1	2	79	78	31.3 - 161.7

Standard (CCV-2)

QC Batch: 64968

Date Analyzed: 2009-11-03

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	278	111	80 - 120	2009-11-03

Standard (CCV-3)

QC Batch: 64968

Date Analyzed: 2009-11-03

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	277	111	80 - 120	2009-11-03

Report Date: November 9, 2009
114-6400324

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Standard (CCV-1)

QC Batch: 64969

Date Analyzed: 2009-11-03

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	242	97	80 - 120	2009-11-03

Standard (CCV-2)

QC Batch: 64969

Date Analyzed: 2009-11-03

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	80 - 120	2009-11-03

Standard (CCV-3)

QC Batch: 64969

Date Analyzed: 2009-11-03

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	80 - 120	2009-11-03

Standard (ICV-1)

QC Batch: 65007

Date Analyzed: 2009-11-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.1	97	85 - 115	2009-11-04

Standard (CCV-1)

QC Batch: 65007

Date Analyzed: 2009-11-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2009-11-04

Report Date: November 9, 2009
114-6400324

Work Order: 9110220
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Standard (ICV-1)

QC Batch: 65039

Date Analyzed: 2009-11-05

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2009-11-05

Standard (CCV-1)

QC Batch: 65039

Date Analyzed: 2009-11-05

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.5	96	85 - 115	2009-11-05

Standard (ICV-1)

QC Batch: 65040

Date Analyzed: 2009-11-05

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	2009-11-05

Standard (CCV-1)

QC Batch: 65040

Date Analyzed: 2009-11-05

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	2009-11-05

Standard (ICV-1)

QC Batch: 65041

Date Analyzed: 2009-11-05

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	2009-11-05

Standard (CCV-1)

QC Batch: 65041			Date Analyzed: 2009-11-05				Analyzed By: AR
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2009-11-05

Standard (ICV-1)

QC Batch: 65042			Date Analyzed: 2009-11-05				Analyzed By: AR
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2009-11-05

Standard (CCV-1)

QC Batch: 65042			Date Analyzed: 2009-11-05				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	2009-11-05

Standard (ICV-1)

QC Batch: 65043			Date Analyzed: 2009-11-05				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	2009-11-05

Standard (CCV-1)

QC Batch: 65043			Date Analyzed: 2009-11-05				Analyzed By: AR
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2009-11-05

Report Date: November 9, 2009
114-6400324

Work Order: 9110220
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Standard (ICV-1)

QC Batch: 65044

Date Analyzed: 2009-11-05

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	2009-11-05

Standard (CCV-1)

QC Batch: 65044

Date Analyzed: 2009-11-05

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2009-11-05

Standard (CCV-1)

QC Batch: 65066

Date Analyzed: 2009-11-05

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	0.0922	92	80 - 120	2009-11-05
Toluene		mg/Kg	0.100	0.0936	94	80 - 120	2009-11-05
Ethylbenzene		mg/Kg	0.100	0.0926	93	80 - 120	2009-11-05
Xylene		mg/Kg	0.300	0.277	92	80 - 120	2009-11-05

Standard (CCV-2)

QC Batch: 65066

Date Analyzed: 2009-11-05

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	0.0928	93	80 - 120	2009-11-05
Toluene		mg/Kg	0.100	0.0933	93	80 - 120	2009-11-05
Ethylbenzene		mg/Kg	0.100	0.0913	91	80 - 120	2009-11-05
Xylene		mg/Kg	0.300	0.271	90	80 - 120	2009-11-05

Standard (CCV-3)

QC Batch: 65066

Date Analyzed: 2009-11-05

Analyzed By: AG

Report Date: November 9, 2009
114-6400324

Work Order: 9110220
Skelly 601

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	<0.00100		80 - 120	2009-11-05
Toluene		mg/Kg	0.100	<0.00100		80 - 120	2009-11-05
Ethylbenzene		mg/Kg	0.100	<0.00110		80 - 120	2009-11-05
Xylene		mg/Kg	0.300	<0.00360		80 - 120	2009-11-05

Standard (CCV-1)

QC Batch: 65068

Date Analyzed: 2009-11-05

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.00	100	80 - 120	2009-11-05

Standard (CCV-2)

QC Batch: 65068

Date Analyzed: 2009-11-05

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	0.908	91	80 - 120	2009-11-05

Standard (CCV-3)

QC Batch: 65068

Date Analyzed: 2009-11-05

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	0.974	97	80 - 120	2009-11-05

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 1

OF: 9

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME:

COL

SITE MANAGER:

JKE TAVAREZ

PROJECT NO.:

114-6400324

PROJECT NAME:

Skelly Goli

LAB I.D.
NUMBER

DATE

TIME

MATRIX
COMP
GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTX 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 Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date:

10/30/09

RECEIVED BY: (Signature)

Date:

10/30/09

SAMPLED BY: (Print & Initial)

Date:

10/30/09

RELINQUISHED BY: (Signature)

Date:

10/30/09

RECEIVED BY: (Signature)

Date:

10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

10/30/09

RECEIVED BY: (Signature)

Date:

10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RECEIVING LABORATORY:

TAVAREZ

RECEIVED BY: (Signature)

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges
Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

3.6°C intact

REMARKS:

IF TPH > 5000 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.

Run 10 highest TPH for BTEX

Order #: 9110220

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: 2

OF: 9

ANALYSIS REQUEST
(Circle or Specify Method No.)

NT NAME:

Log

SITE MANAGER:

Ike TAVARER

JECT NO.:

1-6400324

PROJECT NAME:

Kelly 601

I.D.
NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

PRESERVATIVE
METHOD

HCL

HNO3

ICE

NONE

BTX 8021 B

EPA 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 Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

728 10/27 S L AH-4 0-1

729 / / / / 1-1.5

730 / / / / 2-2.5

731 / / / / AH5 0-1

732 / / / / 1-1.5

733 / / / / 2-2.5

734 / / / / AH6 0-1

735 / / / / 1-1.5

736 / / / / 2-2.5

737 10/27 S L 3-3.5

SHIPPED BY: (Signature)

Date: 10/30/09

Time: 4:10

RECEIVED BY: (Signature)

Date: 10/30/09

Time: 16:10

SAMPLED BY: (Print & Initial)

Date: _____

Time: _____

SHIPPED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

HAND DELIVERED

UPS

AIRBILL #: _____

OTHER: _____

SHIPPED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

TETRA TECH CONTACT PERSON:

Results by:

ING LABORATORY:

SS:

ST:

STATE:

ZIP:

PHONE:

RECEIVED BY: (Signature)

DATE:

TIME:

CONDITION WHEN RECEIVED:

REMARKS:

c intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 9



TETRA TECH

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Log

SITE MANAGER:

IKT TAVAREZ

PROJECT NO.:

114-6400324

PROJECT NAME:

Skelly 601

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 MOB. TX1005 (Ext. to C35)

PAH 8270

ROHA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date:

10/30/09

Time:

4:10

RECEIVED BY: (Signature)

Date:

10/30/09

Time:

16:10

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

HAND DELIVERED

UPS

AIRBILL #:

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

Midland

STATE:

TX

ZIP:

PHONE:

RECEIVED BY: (Signature)

DATE:

TIME:

TETRA TECH CONTACT PERSON:

IKT TAVAREZ

Results by:

RUSH Charges

Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

3.6°C intact

REMARKS:

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 4 OF: 9

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMF

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTEX 8021B

FPH 8015 MOD (Ext. to C35)

PAH 8270

FCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb 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

2137471067

S

X

AH-10 0-1

X

X

748

1-1.5

X

749

2-2.5

X

750

AH-11 0-1

X

X

751

1-1.5

X

752

2-2.5

X

753

AH-12 0-1

X

754

1-1.5

X

755

2-2.5

X

756 10/67

S

X

3-3.5

X

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

HAND DELIVERED

UPS

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

STATE:

PHONE:

ZIP:

RECEIVED BY: (Signature)

DATE:

TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges
Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6°C intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 9

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

114 6400324

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTX 8021B

TPH 8015 MO. TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213757

10/27

S

N

AH-12

4-4.5

758

5-5.5

759

6-6.5

760

7-7.5

761

8-8.5

762

9-9.5

763

AH-13

0-1

764

1-1.5

765

2-2.5

766

10/27

S

N

AH-13

3-3.5

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY:

STATE:

PHONE:

ZIP:

RECEIVED BY: (Signature)

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6 c intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 6

OF: 9

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTX 8021B

TPH 8015 MOB (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/808

Pest. 808/808

Chlorides

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213767

10/27

S

L

AH-13

4-4.5

768

1

5-5.5

769

1

6-6.5

770

1

7-7.5

771

1

8-8.5

772

1

AH-14

0-1

773

1

1-1.5

774

1

2-2.5

775

1

3-3.5

776

10/27

S

L

4-4.5

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

OTHER:

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6 c intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 8 OF: 9

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTEX 8021B

TPH 8015 MOD (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb 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

213787

10/6/09

S

K

AH-16 0-1

K

X

X

788

1-1.5

X

789

2-2.5

X

790

3-3.5

X

791

4-4.5

792

5-5.5

793

Background 0-1

X

794

1-1.5

X

795

2-2.5

X

796

10/6/09

3-3.5

X

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

FEDEX
HAND DELIVERED
BUS
UPS

OTHER:

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

TETRA TECH CONTACT PERSON:

Results by:

RUSH Charges
Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6°C intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 16 HIGHEST TPH FOR BTEX.

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 9 OF: 9

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTX 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 Pb 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. 809/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213797

2009

S

K

Background 4-4.5

798

S

K

6-6.5

LAST ITEM

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

Name

Midland

STATE:

PHONE:

ZIP:

DATE:

TIME:

RECEIVED BY: (Signature)

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6: intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTX.

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

Summary Report

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

Report Date: December 7, 2009

Work Order: 9110220



Project Name: Skelly 601
Project Number: 114-6400324

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
213767	AH-13 4-4.5	soil	2009-10-27	00:00	2009-10-30
213768	AH-13 5-5.5	soil	2009-10-27	00:00	2009-10-30
213769	AH-13 6-6.5	soil	2009-10-27	00:00	2009-10-30
213770	AH-13 7-7.5	soil	2009-10-27	00:00	2009-10-30
213771	AH-13 8-8.5	soil	2009-10-27	00:00	2009-10-30

Sample: 213767 - AH-13 4-4.5

Param	Flag	Result	Units	RL
Chloride		5370	mg/Kg	4.00

Sample: 213768 - AH-13 5-5.5

Param	Flag	Result	Units	RL
Chloride		9420	mg/Kg	4.00

Sample: 213769 - AH-13 6-6.5

Param	Flag	Result	Units	RL
Chloride		7550	mg/Kg	4.00

Sample: 213770 - AH-13 7-7.5

Param	Flag	Result	Units	RL
Chloride		1200	mg/Kg	4.00

Sample: 213771 - AH-13 8-8.5

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
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
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: December 7, 2009

Work Order: 9110220



Project Name: Skelly 601
Project Number: 114-6400324

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
213767	AH-13 4-4.5	soil	2009-10-27	00:00	2009-10-30
213768	AH-13 5-5.5	soil	2009-10-27	00:00	2009-10-30
213769	AH-13 6-6.5	soil	2009-10-27	00:00	2009-10-30
213770	AH-13 7-7.5	soil	2009-10-27	00:00	2009-10-30
213771	AH-13 8-8.5	soil	2009-10-27	00:00	2009-10-30

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 6 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 Skelly 601 were received by TraceAnalysis, Inc. on 2009-10-30 and assigned to work order 9110220. Samples for work order 9110220 were received intact at a temperature of 3.6 deg. 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	56233	2009-12-04 at 08:57	65797	2009-12-07 at 09:23

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 9110220 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.

Report Date: December 7, 2009
114-6400324

Work Order: 9110220
Skelly 601

Page Number: 4 of 6

Analytical Report

Sample: 213767 - AH-13 4-4.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-12-07	Analyzed By:	AR
QC Batch:	65797	Sample Preparation:	2009-12-04	Prepared By:	AR
Prep Batch:	56233				

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

Sample: 213768 - AH-13 5-5.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-12-07	Analyzed By:	AR
QC Batch:	65797	Sample Preparation:	2009-12-04	Prepared By:	AR
Prep Batch:	56233				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9420	mg/Kg	100	4.00

Sample: 213769 - AH-13 6-6.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-12-07	Analyzed By:	AR
QC Batch:	65797	Sample Preparation:	2009-12-04	Prepared By:	AR
Prep Batch:	56233				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7550	mg/Kg	100	4.00

Sample: 213770 - AH-13 7-7.5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-12-07	Analyzed By:	AR
QC Batch:	65797	Sample Preparation:	2009-12-04	Prepared By:	AR
Prep Batch:	56233				

continued ...

Report Date: December 7, 2009
114-6400324

Work Order: 9110220
Skelly 601

Page Number: 5 of 6

sample 213770 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1200	mg/Kg	50	4.00

Sample: 213771 - AH-13 8-8.5

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 65797 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56233 Sample Preparation: 2009-12-04 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		337	mg/Kg	50	4.00

Method Blank (1) QC Batch: 65797

QC Batch: 65797 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56233 QC Preparation: 2009-12-04 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 65797 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56233 QC Preparation: 2009-12-04 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.1	mg/Kg	1	100	<2.18	99	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	101	mg/Kg	1	100	<2.18	101	85 - 115	2	20

Report Date: December 7, 2009
114-6400324

Work Order: 9110220
Skelly 601

Page Number: 6 of 6

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

Matrix Spike (MS-1) Spiked Sample: 216092

QC Batch: 65797
Prep Batch: 56233

Date Analyzed: 2009-12-07
QC Preparation: 2009-12-04

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9950	mg/Kg	100	10000	337	96	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	10100	mg/Kg	100	10000	337	98	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: 65797

Date Analyzed: 2009-12-07

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2009-12-07

Standard (CCV-1)

QC Batch: 65797

Date Analyzed: 2009-12-07

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2009-12-07

Order #: 9110220

Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

PAGE: 1 OF: 9

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COL

SITE MANAGER:

IKT TAVAREZ

PROJECT NO.:

114-6400324

PROJECT NAME:

Skelly 601

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTX 8021B

TPH 8015 MOI TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/624

GC/MS Semi. Vol. 8270/625

PCB's 8090/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213719

10/27

S

K

AH-1 0-1

720

10/27

S

K

1-1.5

721

10/27

S

K

2-2.5

722

10/27

S

K

AH-2 0-1

723

10/27

S

K

1-1.5

724

10/27

S

K

2-2.5

725

10/27

S

K

AH-3 0-1

726

10/27

S

K

1-1.5

727

10/27

S

K

2-2.5

RELINQUISHED BY: (Signature)

Date: 10/30/09

Time: 4:16

RECEIVED BY: (Signature)

Date: 10/30/09

Time: 16:10

SAMPLED BY: (Print & Initial)

Date: 10/30/09

Time: 16:10

RELINQUISHED BY: (Signature)

Date: 10/30/09

Time: 16:10

RECEIVED BY: (Signature)

Date: 10/30/09

Time: 16:10

SAMPLE SHIPPED BY: (Circle)

FEDEX BUS

HAND DELIVERED UPS

AIRBILL #: 114-6400324

OTHER: 114-6400324

RELINQUISHED BY: (Signature)

Date: 10/30/09

Time: 16:10

RECEIVED BY: (Signature)

Date: 10/30/09

Time: 16:10

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

RECEIVED BY: (Signature)

DATE:

TIME:

IKT TAVAREZ

RUSH Charges
Authorized:
Yes No

SAMPLE CONDITION WHEN RECEIVED:

3.16°C intact

REMARKS:

IF TPH > 5000 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.

Run 10 highest TPH for BTEX

Order #: 9116220

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 9

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

NT NAME:		SITE MANAGER:		NUMBER OF CONTAINERS	PRESERVATIVE METHOD				BTEX 8021B	TOH 8015 MO	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. 8240/8260/824	GC/MS Semi. Vol. 8270/825	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
JECT NO.:	PROJECT NAME:	DATE	TIME		HC	HNO3	ICE	NONE																		
11.D. 1BER	2009																									
728	10/27	S	↓	4H-4	0-1																					
729	↓			↓	1-1.5																					
730	↓			↓	2-2.5																					
731	↓			4H5	0-1																					
732	↓			↓	1-1.5																					
733	↓			↓	2-2.5																					
734	↓			4H6	0-1																					
735	↓			↓	1-1.5																					
736	↓			↓	2-2.5																					
737	10/27	S	↓	↓	3-3.5																					

SHIPPED BY: (Signature)	Date: 10/30/09	RECEIVED BY: (Signature)	Date: 10/30/09	SAMPLED BY: (Print & Initial)	Date:
SHIPPED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	SAMPLE SHIPPED BY: (Circle)	AIRBILL #:
SHIPPED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	FEDEX	BUS
SHIPPED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	UPS	OTHER:
TETRA TECH CONTACT PERSON:				Results by:	
Ite TAVARER				RUSH Charges Authorized:	
				Yes No	

CONDITION WHEN RECEIVED: intact REMARKS: IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 9

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS
FILTERED (Y/N)PRESERVATIVE
METHOD

HCL

HNO3

ICE

NONE

BTX 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 Pb 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. 809/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213738

27/10

S

K

AH-7 0-1

739

1-1.5

740

2-2.5

741

AH-8 0-1

742

1-1.5

743

2-2.5

744

AH-9 0-1

745

1-1.5

746

27/10

2-2.5

RELINQUISHED BY: (Signature)

Date:

10/30/09

Time:

4:10

RECEIVED BY: (Signature)

Date:

10/30/09

Time:

16:10

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

Jke Turner

RUSH Charges
Authorized:
Yes No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6°C intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTX

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

Order #: 9110220

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: 4 OF: 9

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHODBTEX 8021B
PAH 8015 MOD (Ext. to C35)
PAH 8270RCRA Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Metals Ag As Ba Cd Vr Pd Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/625

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

2137471027

2009

S LAH-10 0-1

748

1-1.5

749

2-2.5

750

AH-11 0-1

751

1-1.5

752

2-2.5

753

AH-12 0-1

754

1-1.5

755

2-2.5

756 10/27

S X AH-13 3-3.5

RELINQUISHED BY: (Signature)

Date: 10/30/05

RECEIVED BY: (Signature)

Date: 10/30/05

SAMPLED BY: (Print & Initial)

Date: 10/30/05

RELINQUISHED BY: (Signature)

Date: 10/30/05

RECEIVED BY: (Signature)

Date: 10/30/05

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 1000000000

RELINQUISHED BY: (Signature)

Date: 10/30/05

RECEIVED BY: (Signature)

Date: 10/30/05

SAMPLE SHIPPED BY: (Circle)

OTHER: 1000000000

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

TETRA TECH CONTACT PERSON:

Results by:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6°C intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 9

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

114 6400324

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD				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. 8240/8260/824	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
									HCL	HNO3	ICE	NONE																	
213757	10/27		S			AAH-12 4-4.5																							
758						5-5.5																							
759						6-6.5																							
760						7-7.5																							
761						8-8.5																							
762						9-9.5																							
763						AAH-13 0-1							X												X				
764						1-1.5																			X				
765						2-2.5																			X				
766	10/27		S			3-3.5																			X				

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLED BY: (Print & Initial)

Date: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RELINQUISHED BY: (Signature)

Date: 10/30/09

RECEIVED BY: (Signature)

Date: 10/30/09

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: 10/30/09

RECEIVING LABORATORY:

THACE

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE: TX

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

3.6 c intact

REMARKS:

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 6 OF: 9

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

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 MOB; TX1005 (Exl to C3s)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Vr Pd Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

213767

10/27

S

K

AH-13

4-4.5

708

5-5.5

709

6-6.5

770

7-7.5

771

8-8.5

772

AH-14

0-1

773

1-1.5

774

2-2.5

775

3-3.5

776

10/27

S

K

4-4.5

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

RECEIVED BY: (Signature)

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6 c intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX

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

Order #: 9110220

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: 7 OF: 9

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Coy

SITE MANAGER:

Ike Taurero

PROJECT NO.:

119-6400324

PROJECT NAME:

Skelly 601

LAB I.D.
NUMBERDATE
2009

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHODBTX 8021R
TPH 8015 MOD
PAH 8270

TX1005 (Ext. to C35)

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb 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

213777 10/27

K

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Order #: 9110220

Analysis Request of Chain of Custody Record

PAGE: 8 OF: 9

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME:		SITE MANAGER:		NUMBER OF CONTAINERS	PRESERVATIVE METHOD	ANALYSIS REQUEST (Circle or Specify Method No.)																										
PROJECT NO.:		PROJECT NAME:				TPH	8015 MODS	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 8080/808	Pest. 809/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS								
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	TPH	8015 MODS	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 8080/808	Pest. 809/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS	
213787	10/6/07		S			LAH-16 0-1																										
788						1-1.5																										
789						2-2.5																										
790						3-3.5																										
791						4-4.5																										
792						5-5.5																										
793						Background 0-1																										
794						1-1.5																										
795						2-2.5																										
796	10/6/07					3-3.5																										
RELINQUISHED BY: (Signature)		Date: 10/30/07		RECEIVED BY: (Signature)		Date: 10/30/07		SAMPLED BY: (Print & Initial)		Date: 10/30/07		SAMPLE SHIPPED BY: (Circle)		AIRBILL #:		FEDEX		BUS		OTHER:		RUSH Charges Authorized:		Yes		No						
RELINQUISHED BY: (Signature)		Date:		RECEIVED BY: (Signature)		Date:		SAMPLE SHIPPED BY: (Circle)		Date:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
RELINQUISHED BY: (Signature)		Date:		RECEIVED BY: (Signature)		Date:		SAMPLE SHIPPED BY: (Circle)		Date:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
RECEIVING LABORATORY: Mike		ADDRESS:		RECEIVED BY: (Signature)		DATE:		TETRA TECH CONTACT PERSON:		DATE:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
CITY: Midland		STATE: TX		RECEIVED BY: (Signature)		DATE:		TETRA TECH CONTACT PERSON:		DATE:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
CONTACT: PHONE:		ZIP:		RECEIVED BY: (Signature)		DATE:		TETRA TECH CONTACT PERSON:		DATE:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
SAMPLE CONDITION WHEN RECEIVED:		REMARKS:		RECEIVED BY: (Signature)		DATE:		TETRA TECH CONTACT PERSON:		DATE:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								
3.6°C intact		IF TPH > 5000 RUN DEEPER SAMPLES / RUN 16 HIGHEST TPH FOR BTEX.		RECEIVED BY: (Signature)		DATE:		TETRA TECH CONTACT PERSON:		DATE:		FEDEX		AIRBILL #:		BUS		OTHER:		RUSH Charges Authorized:		Yes		No								

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

Order #: 9110220

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: 9 OF: 9

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

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

PCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

FCI

GC/MS Vol. 8240/8260/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/608

Pest. 809/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Initial)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

AIRBILL #:

FEDEX ☒ BUS ☐ ~~AND DELIVERED~~ UPS ☐

OTHER:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

STATE:

PHONE:

ZIP:

DATE:

TIME:

RECEIVED BY: (Signature)

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.6; intact

IF TPH > 5000 RUN DEEPER SAMPLES / RUN 10 HIGHEST TPH FOR BTEX.

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