



TETRA TECH

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NOV - 2 2009

NMOCD ARTESIA

October 20, 2009

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

Re: Assessment Report and Closure Request for the St. Mary Land & Exploration Company, Tirano CNG State Tank Battery, Located in Unit N, Section 36, Township 24 South, Range 28 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. was contacted by St. Mary Land & Exploration Company (St. Mary) to assess a spill from the Tirano CNG State tank battery located in Unit N, Section 36, Township 24 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.168056°, W 104.042778°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak occurred on January 19, 2009, when the dump valve on the heater treater failed, causing oil to dump out the gas vent line. Approximately 20 barrels of oil was released and 2 barrels of oil was recovered with a vacuum truck. The valve was repaired and the impacted areas off the pad were excavated and the soil hauled to proper disposal. The initial C-141 is enclosed in Appendix A.

Groundwater

According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), the Rustler and Castile formation (Ochoa Series) is present west and east of the Pecos River. The Salado formation overlies the Castile formation east of the Pecos River and was removed by solution west of the river. The Rustler and Castile formations consist of anhydrite, gypsum, interbedded sandy clay and beds of dolomite. Groundwater from the Castile and Rustler formations west of the Pecos River is historically high in chloride and sulfate concentrations which increase towards the river. Based upon a review of

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



the New Mexico Office of the State Engineer iWATERS database, and other projects performed in this area, the depth to water would appear to be <50'.

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 100 mg/kg.

Soil Assessment and Results

On January 29, 2009, Tetra Tech personnel inspected and sampled the spill areas on and off the facility pad. A total of seven (7) auger holes (AH-1 through AH-7) 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. TPH concentrations exceeded the RRAL for TPH in AH-2 (0-1'), AH-3 (0-1'), AH-4 (0-1'), AH-6 (0-1.5') and AH-7 (0-3.5'). The TPH concentrations were not fully defined below the RRAL in AH-5, AH-6 and AH-7. Additionally, chloride concentrations were elevated to 2.5' in AH-1 and not defined in AH-5. All of the samples analyzed were below the RRAL for BTEX.

Since TPH and chloride concentrations were not defined in AH-5, AH-6 and AH-7, on March 3, 2009, a backhoe was used to install three test trenches in the vicinity of the auger holes and collect background samples from two areas away from the facility pad and spill areas. The trenches, labeled T-1 (AH-7), T-2 (AH-6) and T-3 (AH-5) defined the TPH impact in AH-6 and AH-7 and showed declining chloride concentrations in the vicinity of AH-5. The background concentrations of chloride ranged from <200 to 906 mg/kg. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The spill areas, auger hole locations and trench locations are shown on Figure 3. The sample results are summarized in Table 1.

Closure Request

The results of this assessment and remedial work were presented to the NMOCD in a meeting on May 30, 2009, in Artesia. It was agreed that AH-1 and AH-5 would be excavated to remove chloride impacted soils down to background concentrations and all TPH impacted soils above the RRAL would be removed. Once those tasks were completed, this site could be closed. On September 24 and 25, 2009, the soils were excavated as indicated in Table 1. The excavated soils were taken to Lea Land, Inc. for proper disposal. A copy of the Final C-141 is included in Appendix A.



TETRA TECH

Based upon the work performed at this site, St. Mary Land & Exploration Company requests this site be closed. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH, Inc.

Tim Reed, P.G.
Sr. Project Manager

cc: Mark Bondy – St. Mary Land
Don Riggs – St. Mary Land

FIGURES

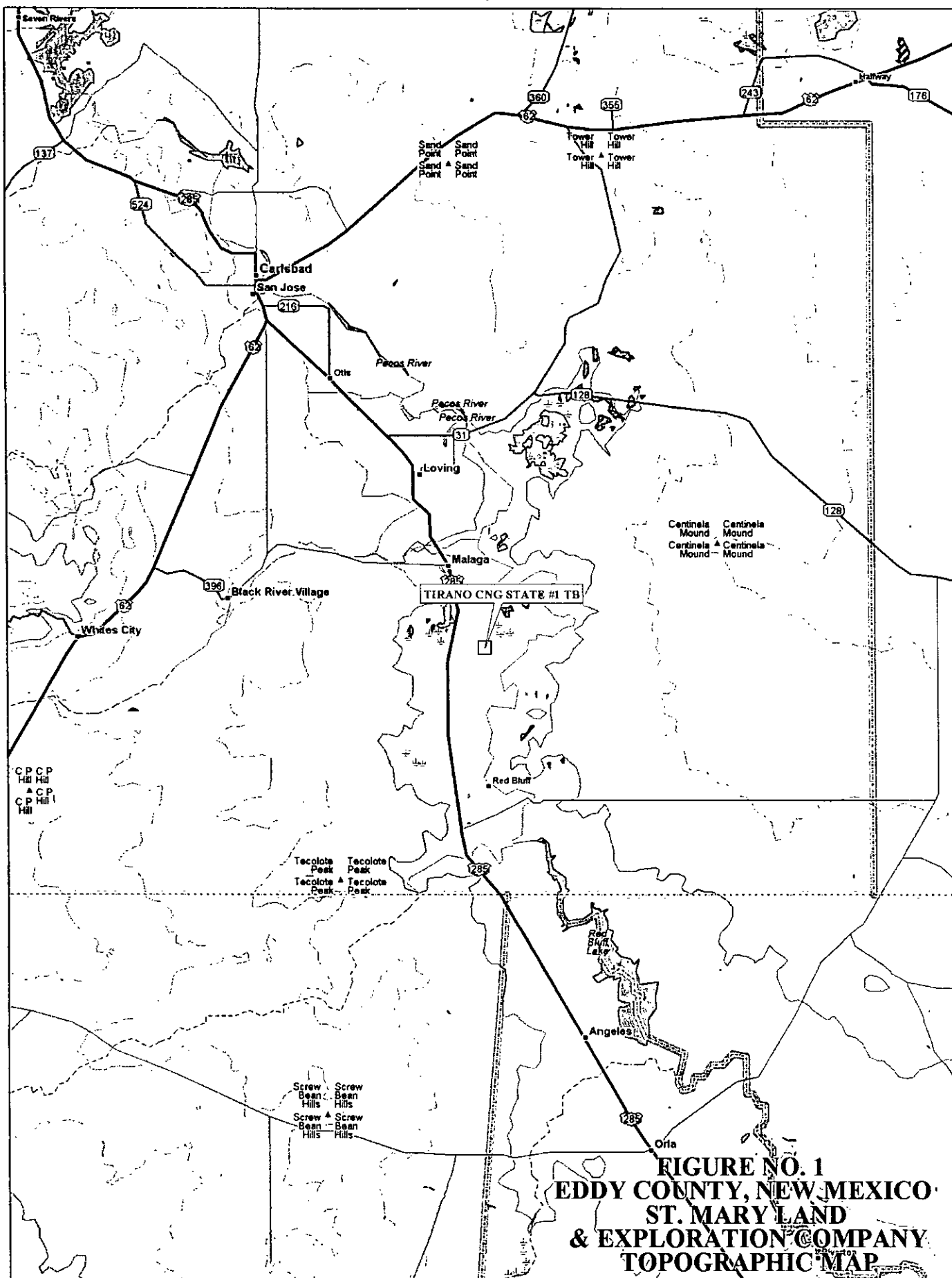


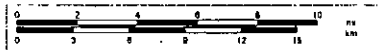
FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
ST. MARY LAND
& EXPLORATION COMPANY
TOPOGRAPHIC MAP

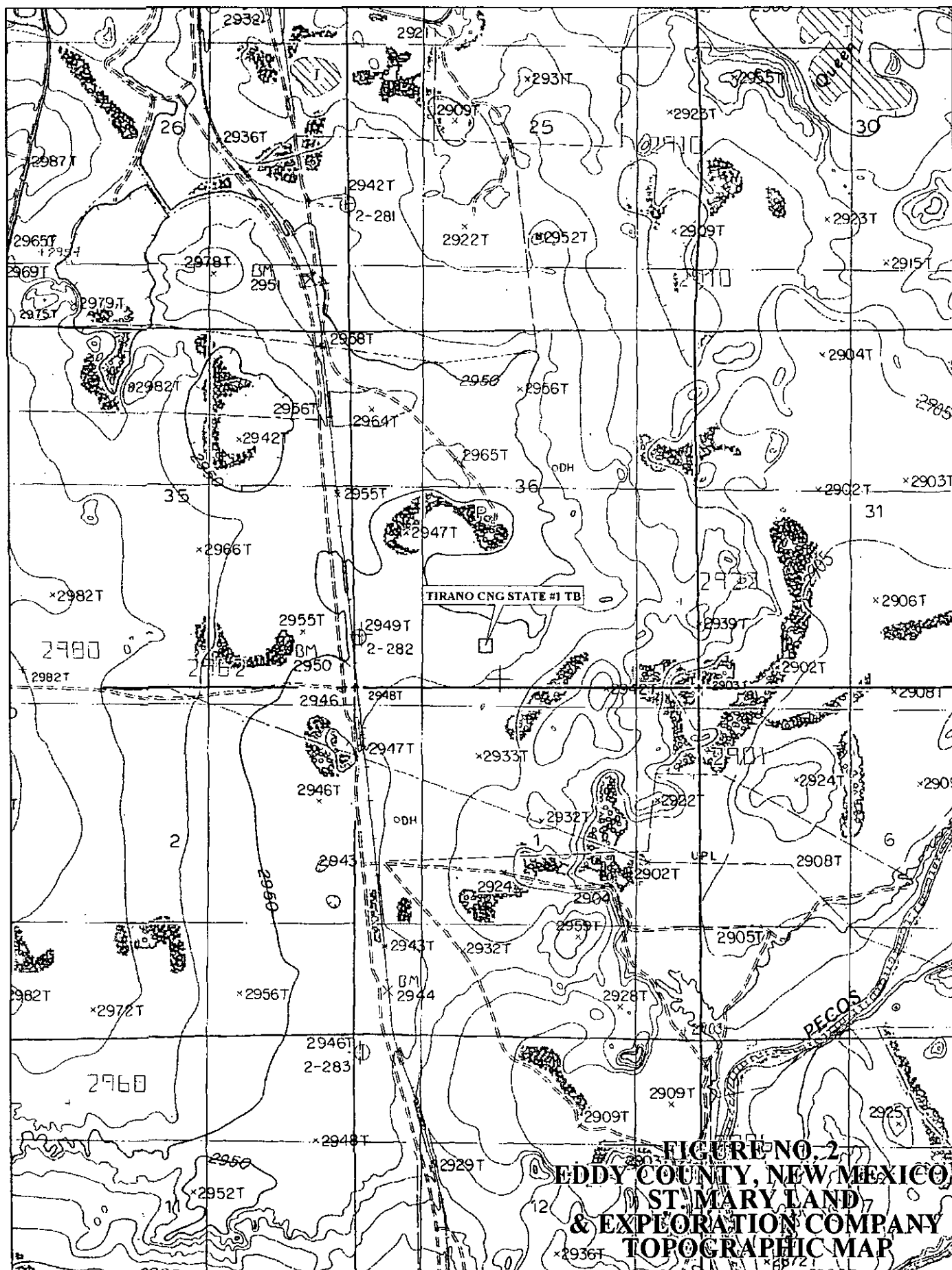


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Scale 1 : 400,000

1" = 6.31 mi

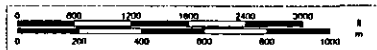




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Scale 1 : 24,000

1" = 2000 ft



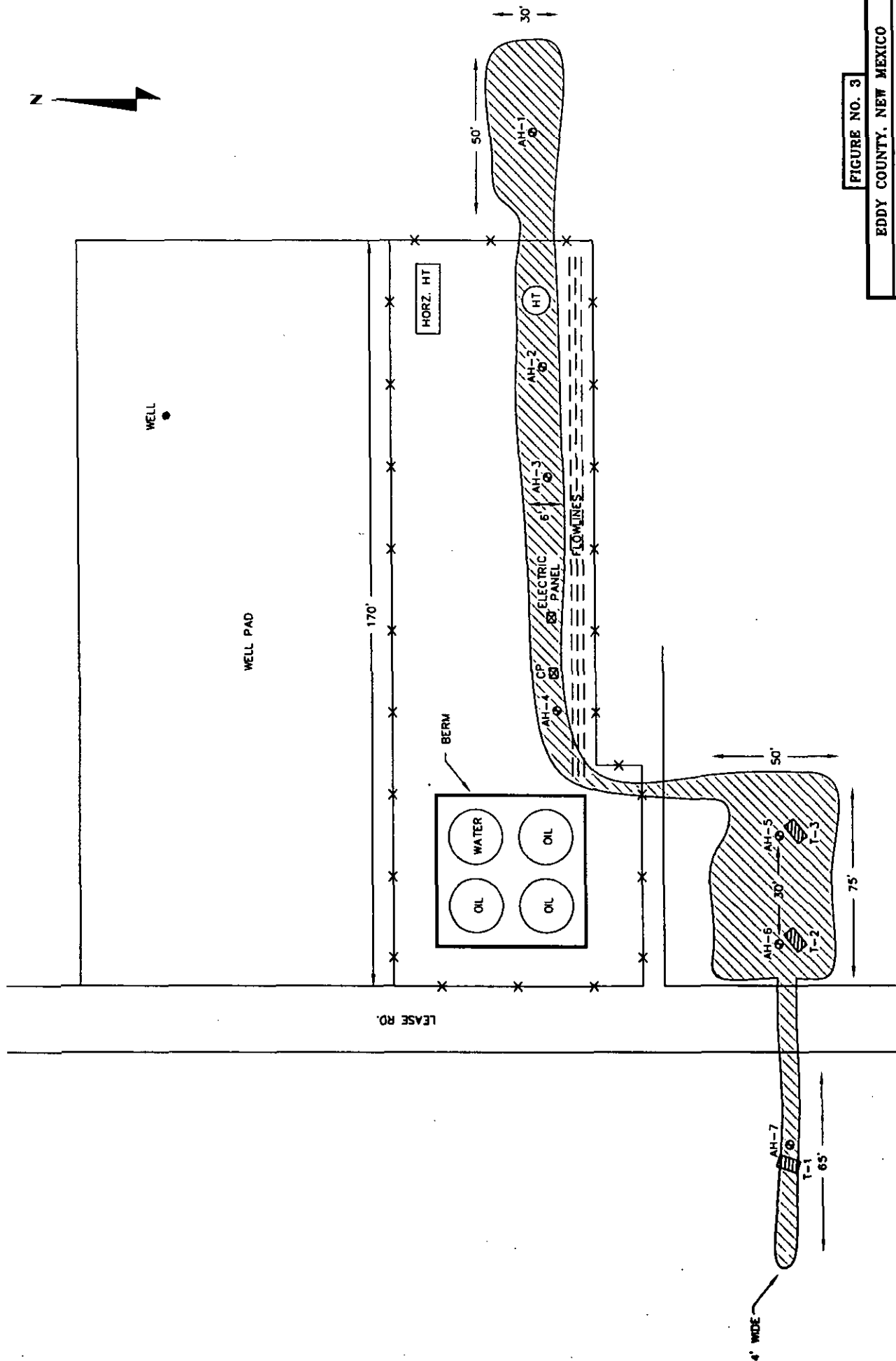


FIGURE NO. 3

EDDY COUNTY, NEW MEXICO
ST. MARY LAND & EXPLORATION COMPANY
TIRANO CNG STATE #1 TB
TETRA TECH, INC. MIDLAND, TEXAS

DATE: 2/13/09	DRAWN BY: JJ	FILE: NO. 101-1072 TIRANO CNG STATE #1
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NOT TO SCALE

TABLES

Table 1

St. Mary Land & Exploration
Tirano CNG State 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)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	Total					
AH-1	1/29/2009	0-1 BEB (1.0)		X	<50.0	<1.00	<50.0	-	-	-	-	1,360
	1/29/2009	1-1.5 BEB (1.0)		X	<50.0	<1.00	<50.0	-	-	-	-	1,480
	1/29/2009	2-2.5 BEB (1.0)		X	-	-	-	-	-	-	-	1,620
	2/9/2009	3-3.5 BEB (1.0)	X		-	-	-	-	-	-	-	443
	2/9/2009	5-5.5 BEB (1.0)	X		-	-	-	-	-	-	-	483
AH-2	1/29/2009	0-1		X	1,120	78.7	1,198.7	<0.0100	0.0379	0.0841	1.01	448
	1/29/2009	1-1.5	X		<50.0	5.71	5.71	-	-	-	-	302
	1/29/2009	2-2.5	X		-	-	-	-	-	-	-	353
AH-3	1/29/2009	0-1		X	3,030	563	3,593	<0.100	2.51	3.56	8.77	<200
	1/29/2009	1-1.5	X		<50.0	14.5	14.5	-	-	-	-	<200
	1/29/2009	2-2.5	X		-	-	-	-	-	-	-	213
AH-4	1/29/2009	0-1		X	236	9.74	245.74	-	-	-	-	<200
	1/29/2009	1-1.5	X		<50.0	2.64	2.64	-	-	-	-	356
	1/29/2009	2-2.5	X		-	-	-	-	-	-	-	272
AH-5	1/29/2009	0-1 BEB (1.5)		X	<50.0	<1.00	<50.0	-	-	-	-	2,660
	1/29/2009	1-1.5 BEB (1.5)		X	<50.0	<1.00	<50.0	-	-	-	-	1,730
	1/29/2009	2-2.5 BEB (1.5)		X	-	-	-	-	-	-	-	1,670
	1/29/2009	3-3.5 BEB (1.5)		X	-	-	-	-	-	-	-	1,680
T-3	3/3/2009	4.0		X	-	-	-	-	-	-	-	1,270
	3/3/2009	5.0		X	-	-	-	-	-	-	-	1,800
	3/3/2009	6.0		X	-	-	-	-	-	-	-	1,530
	3/3/2009	8.0	X		-	-	-	-	-	-	-	886
	3/3/2009	10.0	X		-	-	-	-	-	-	-	784
AH-6	1/29/2009	0-1 BEB (1.0)		X	770	4.87	774.87	-	-	-	-	<200
	1/29/2009	1-1.5 BEB (1.0)		X	405	2.82	407.82	-	-	-	-	<200
T-2	3/3/2009	2.0		X	102	2.96	104.96	-	-	-	-	-
	3/3/2009	3.0	X		<50.0	<1.00	<50.0	-	-	-	-	-

(-) Not Analyzed (BG) Background

Table 1

St. Mary Land & Exploration
Tirano CNG State 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)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	Total					
AH-7	1/29/2009	0-1		X	7,800	5,280	13,080	3.54	36.7	33.3	76.9	<200
	1/29/2009	1-1.5		X	473	517	990	<0.100	1.40	2.73	6.07	<200
	1/29/2009	2-2.5		X	503	250	753	-	-	-	-	<200
	2/9/2009	3-3.5		X	348	36.7	384.7	-	-	-	-	-
T-1	3/3/2009	4.0	X		<50.0	1.83	1.83	-	-	-	-	-
Background #1	3/3/2009	0-1.0	X		-	-	-	-	-	-	-	<200
	3/3/2009	2.0	X		-	-	-	-	-	-	-	<200
	3/3/2009	4.0	X		-	-	-	-	-	-	-	297
	3/3/2009	6.0	X		-	-	-	-	-	-	-	<200
	3/3/2009	8.0	X		-	-	-	-	-	-	-	<200
	3/3/2009	10.0	X		-	-	-	-	-	-	-	213
	3/3/2009	12.0	X		-	-	-	-	-	-	-	<200
Background #2	3/3/2009	0-1.0	X		-	-	-	-	-	-	-	<200
	3/3/2009	2.0	X		-	-	-	-	-	-	-	229
	3/3/2009	4.0	X		-	-	-	-	-	-	-	609
	3/3/2009	6.0	X		-	-	-	-	-	-	-	906
	3/3/2009	8.0	X		-	-	-	-	-	-	-	890

(-) Not Analyzed (BG) Background

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	St Mary Land & Exploration Co.	Contact	Donna Huddleston
Address	3300 N. A Street, Bldg. 7, Ste. 200, Midland, TX 79705	Telephone No.	432-688-1789
Facility Name	Tirano CNG State	Facility Type	Tank Battery
Surface Owner	State of New Mexico	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	36	24E	28E	660	South	1980	West	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	20bbls	Volume Recovered	2bbls
Source of Release	4' x 20' Heater treater	Date and Hour of Occurrence	1/19/2009	Date and Hour of Discovery	1/19/09 1:00am
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher w/NMOCD (left voicemail)		
By Whom?	Bill Hearne	Date and Hour	1/19/09 11:07am		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

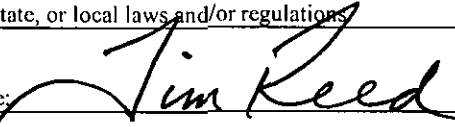
Describe Cause of Problem and Remedial Action Taken.*

Cause: Heater treater dump failure. Oil dump failed to operate properly, filled gas section of heater treater and dumped oil out of gas vent line. Repair oil dump on heater treater and return wells to production. Vacuum truck picked up approx. 2bbls off ground

Describe Area Affected and Cleanup Action Taken.*

Affected area: 30'x30' @vent line and 300'x 12' South of vent. Total area 4800 sq.ft. in pasture.
Cleanup Action Taken: Washed down treater and used vacuum truck to pick up oil.
Soils were excavated by Tetra Tech and hauled off for proper disposal.

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: Tim Reed (agent for St. Mary Land)		Approved by District Supervisor:	
Title: Tetra Tech	Approval Date:	Expiration Date:	
E-mail Address: timothy.reed@tetratech.com	Conditions of Approval:		Attached ☐
Date: 10/22/2009 432-682-4559			

* 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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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	St. Mary Land & Exploration Co.	Contact	Donna Huddleston
Address	3300 N. A Street, Bldg. 7, Ste. 200 Midland, TX	Telephone No.	(432)688-1789
Facility Name	Tirano CNG State	Facility Type	Tank Battery
Surface Owner	State of New Mexico	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	36	24S	28E	660	South	1980	West	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	OIL	Volume of Release	20 bbls	Volume Recovered	2 bbls
Source of Release	4' X 20' Heater Treater	Date and Hour of Occurrence	1/19/2009	Date and Hour of Discovery	1 AM 1/19
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	NMOCD - Mike Bratcher (left voicemail)		
By Whom?	Bill Hearne	Date and Hour	1/19/09 @ 11:07 AM		
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.*

Heater Treater dump failure. Oil dump failed to operate properly, filled gas section of heater treater and dumped oil out of gas vent line. Repair oil dump on heater treater and return wells to production. Vacuum truck picked up approx 2 bbls off ground.

Describe Area Affected and Cleanup Action Taken.*

Affected area: 30' X 30' @ vent line and 300' x 12' South of Vent. Total area 4800 sq. ft. in pasture. Cleanup Action Taken: Washed down treater and used Vacuum truck to pick up oil. Plan to remediate affected area.

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: <i>Donna Huddleston</i>		OIL CONSERVATION DIVISION	
Printed Name: Donna Huddleston		Approved by District Supervisor:	
Title: Production Tech		Approval Date:	Expiration Date:
E-mail Address: dhuddleston@stmaryland.com		Conditions of Approval:	Attached ☐
Date: 01/20/2009 Phone: (432)688-1789			

* Attach Additional Sheets If Necessary

APPENDIX B

Report Date: February 6, 2009
115-6403679

Work Order: 9013031
St. Mary/Tirano CNG

Page Number: 1 of 4
Eddy County, NM

Summary Report

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

Report Date: February 6, 2009

Work Order: 9013031



Project Location: Eddy County, NM
Project Name: St. Mary/Tirano CNG
Project Number: 115-6403679

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
186225	AH-1 0-1' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186226	AH-1 1-1.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186227	AH-1 2-2.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186228	AH-2 0-1'	soil	2009-01-29	00:00	2009-01-30
186229	AH-2 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186230	AH-2 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186231	AH-3 0-1'	soil	2009-01-29	00:00	2009-01-30
186232	AH-3 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186233	AH-3 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186234	AH-4 0-1'	soil	2009-01-29	00:00	2009-01-30
186235	AH-4 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186236	AH-4 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186237	AH-5 0-1' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186238	AH-5 1-1.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186239	AH-5 2-2.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186240	AH-5 3-3.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186241	AH-6 0-1' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186242	AH-6 1-1.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186243	AH-7 0-1'	soil	2009-01-29	00:00	2009-01-30
186244	AH-7 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186245	AH-7 2-2.5'	soil	2009-01-29	00:00	2009-01-30

Sample - Field Code	BTEX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
186225 - AH-1 0-1' (1' BEB)					<50.0	<1.00
186226 - AH-1 1-1.5' (1' BEB)					<50.0	<1.00
186228 - AH-2 0-1'					1120	78.7
186229 - AH-2 1-1.5'					<50.0	5.71

continued ...

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: February 6, 2009
115-6403679

Work Order: 9013031
St. Mary/Tirano CNG

Page Number: 2 of 4
Eddy County, NM

... continued

Sample - Field Code	BTEX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
186231 - AH-3 0-1'	<0.100	2.51	3.56	8.77	3030	563
186232 - AH-3 1-1.5'					<50.0	14.5
186234 - AH-4 0-1'					236	9.74
186235 - AH-4 1-1.5'					<50.0	2.64
186237 - AH-5 0-1' (1.5' BEB)					<50.0	<1.00
186238 - AH-5 1-1.5' (1.5' BEB)					<50.0	<1.00
186241 - AH-6 0-1' (1' BEB)					770	4.87
186242 - AH-6 1-1.5' (1' BEB)					405	2.82
186243 - AH-7 0-1'	3.54	36.7	33.3	76.9	7800	5280
186244 - AH-7 1-1.5'	<0.100	1.40	2.73	6.07	473	517
186245 - AH-7 2-2.5'					503	250

Sample: 186225 - AH-1 0-1' (1' BEB)

Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	4.00

Sample: 186226 - AH-1 1-1.5' (1' BEB)

Param	Flag	Result	Units	RL
Chloride		1480	mg/Kg	4.00

Sample: 186227 - AH-1 2-2.5' (1' BEB)

Param	Flag	Result	Units	RL
Chloride		1620	mg/Kg	4.00

Sample: 186228 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		448	mg/Kg	4.00

Sample: 186229 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		302	mg/Kg	4.00

Sample: 186230 - AH-2 2-2.5'

Report Date: February 6, 2009
115-6403679

Work Order: 9013031
St. Mary/Tirano CNG

Page Number: 3 of 4
Eddy County, NM

Param	Flag	Result	Units	RL
Chloride		353	mg/Kg	4.00

Sample: 186231 - AH-3 0-1'

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

Sample: 186232 - AH-3 1-1.5'

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

Sample: 186233 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		213	mg/Kg	4.00

Sample: 186234 - AH-4 0-1'

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

Sample: 186235 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		356	mg/Kg	4.00

Sample: 186236 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		272	mg/Kg	4.00

Sample: 186237 - AH-5 0-1' (1.5' BEB)

Param	Flag	Result	Units	RL
Chloride		2660	mg/Kg	4.00

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Sample: 186238 - AH-5 1-1.5' (1.5' BEB)

Param	Flag	Result	Units	RL
Chloride		1730	mg/Kg	4.00

Sample: 186239 - AH-5 2-2.5' (1.5' BEB)

Param	Flag	Result	Units	RL
Chloride		1670	mg/Kg	4.00

Sample: 186240 - AH-5 3-3.5' (1.5' BEB)

Param	Flag	Result	Units	RL
Chloride		1680	mg/Kg	4.00

Sample: 186241 - AH-6 0-1' (1' BEB)

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

Sample: 186242 - AH-6 1-1.5' (1' BEB)

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

Sample: 186243 - AH-7 0-1'

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

Sample: 186244 - AH-7 1-1.5'

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

Sample: 186245 - AH-7 2-2.5'

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



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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: February 6, 2009

Work Order: 9013031



Project Location: Eddy County, NM
Project Name: St. Mary/Tirano CNG
Project Number: 115-6403679

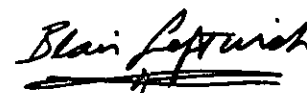
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
186225	AH-1 0-1' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186226	AH-1 1-1.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186227	AH-1 2-2.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186228	AH-2 0-1'	soil	2009-01-29	00:00	2009-01-30
186229	AH-2 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186230	AH-2 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186231	AH-3 0-1'	soil	2009-01-29	00:00	2009-01-30
186232	AH-3 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186233	AH-3 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186234	AH-4 0-1'	soil	2009-01-29	00:00	2009-01-30

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
186235	AH-4 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186236	AH-4 2-2.5'	soil	2009-01-29	00:00	2009-01-30
186237	AH-5 0-1' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186238	AH-5 1-1.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186239	AH-5 2-2.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186240	AH-5 3-3.5' (1.5' BEB)	soil	2009-01-29	00:00	2009-01-30
186241	AH-6 0-1' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186242	AH-6 1-1.5' (1' BEB)	soil	2009-01-29	00:00	2009-01-30
186243	AH-7 0-1'	soil	2009-01-29	00:00	2009-01-30
186244	AH-7 1-1.5'	soil	2009-01-29	00:00	2009-01-30
186245	AH-7 2-2.5'	soil	2009-01-29	00:00	2009-01-30

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 35 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc..



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project St. Mary/Tirano CNG were received by TraceAnalysis, Inc. on 2009-01-30 and assigned to work order 9013031. Samples for work order 9013031 were received intact at a temperature of 3.9 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	48366	2009-02-04 at 10:00	56604	2009-02-04 at 22:54
Chloride (Titration)	SM 4500-Cl B	48337	2009-02-03 at 09:00	56570	2009-02-03 at 17:03
Chloride (Titration)	SM 4500-Cl B	48338	2009-02-03 at 09:30	56571	2009-02-03 at 17:04
Chloride (Titration)	SM 4500-Cl B	48339	2009-02-03 at 09:02	56572	2009-02-03 at 17:04
TPH DRO	Mod. 8015B	48301	2009-02-02 at 09:30	56536	2009-02-02 at 13:30
TPH DRO	Mod. 8015B	48328	2009-02-03 at 09:30	56560	2009-02-03 at 10:30
TPH GRO	S 8015B	48335	2009-02-02 at 17:00	56568	2009-02-02 at 16:48
TPH GRO	S 8015B	48366	2009-02-04 at 10:00	56605	2009-02-04 at 23:21

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 9013031 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.

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Analytical Report

Sample: 186225 - AH-1 0-1' (1' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1360	mg/Kg	50	4.00

Sample: 186225 - AH-1 0-1' (1' BEB)

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

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-Triacontane		119	mg/Kg	1	100	119	10 - 250.4

Sample: 186225 - AH-1 0-1' (1' BEB)

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-02	Analyzed By:	ME
QC Batch:	56568	Sample Preparation:	2009-02-02	Prepared By:	AG
Prep Batch:	48335				

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)		0.915	mg/Kg	1	1.00	92	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.533	mg/Kg	1	1.00	53	52 - 117

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Sample: 186226 - AH-1 1-1.5' (1' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1480	mg/Kg	50	4.00

Sample: 186226 - AH-1 1-1.5' (1' BEB)

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

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-Triacontane		98.2	mg/Kg	1	100	98	10 - 250.4

Sample: 186226 - AH-1 1-1.5' (1' BEB)

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-02	Analyzed By:	ME
QC Batch:	56568	Sample Preparation:	2009-02-02	Prepared By:	AG
Prep Batch:	48335				

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)		0.921	mg/Kg	1	1.00	92	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.548	mg/Kg	1	1.00	55	52 - 117

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Sample: 186227 - AH-1 2-2.5' (1' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 56570 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48337 Sample Preparation: 2009-02-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1620	mg/Kg	50	4.00

Sample: 186228 - AH-2 0-1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 56570 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48337 Sample Preparation: 2009-02-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		448	mg/Kg	50	4.00

Sample: 186228 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 56536 Date Analyzed: 2009-02-02 Analyzed By: LD
Prep Batch: 48301 Sample Preparation: 2009-02-02 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1120	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	1	420	mg/Kg	5	100	420	10 - 250.4

Sample: 186228 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 56568 Date Analyzed: 2009-02-02 Analyzed By: ME
Prep Batch: 48335 Sample Preparation: 2009-02-02 Prepared By: AG

¹ High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		78.7	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	²	2.60	mg/Kg	1	1.00	260	52 - 117

Sample: 186229 - AH-2 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56570
Prep Batch: 48337

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		302	mg/Kg	50	4.00

Sample: 186229 - AH-2 1-1.5'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 56536
Prep Batch: 48301

Analytical Method: Mod. 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

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-Triacontane		96.2	mg/Kg	1	100	96	10 - 250.4

Sample: 186229 - AH-2 1-1.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56568
Prep Batch: 48335

Analytical Method: S 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

continued ...

²High surrogate recovery due to peak interference.

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sample 186229 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
GRO		5.71	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.902	mg/Kg	1	1.00	90	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.734	mg/Kg	1	1.00	73	52 - 117

Sample: 186230 - AH-2 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56570
Prep Batch: 48337

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

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

Sample: 186231 - AH-3 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 56604
Prep Batch: 48366

Analytical Method: S 8021B
Date Analyzed: 2009-02-04
Sample Preparation: 2009-02-04

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		2.51	mg/Kg	10	0.0100
Ethylbenzene		3.56	mg/Kg	10	0.0100
Xylene		8.77	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		11.7	mg/Kg	10	10.0	117	49 - 129.7
4-Bromofluorobenzene (4-BFB)		12.6	mg/Kg	10	10.0	126	45.2 - 144.3

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Sample: 186231 - AH-3 0-1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

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

Sample: 186231 - AH-3 0-1'

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		3030	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	³	733	mg/Kg	5	100	733	10 - 250.4

Sample: 186231 - AH-3 0-1'

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-04	Analyzed By:	ME
QC Batch:	56605	Sample Preparation:	2009-02-04	Prepared By:	ME
Prep Batch:	48366				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		563	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.78	mg/Kg	10	10.0	98	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	⁴	16.5	mg/Kg	10	10.0	165	52 - 117

³High surrogate recovery due to peak interference.

⁴High surrogate recovery due to peak interference.

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Sample: 186232 - AH-3 1-1.5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

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

Sample: 186232 - AH-3 1-1.5'

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

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-Triacontane		93.5	mg/Kg	1	100	94	10 - 250.4

Sample: 186232 - AH-3 1-1.5'

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-02	Analyzed By:	ME
QC Batch:	56568	Sample Preparation:	2009-02-02	Prepared By:	AG
Prep Batch:	48335				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		14.5	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	1	1.00	87	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.794	mg/Kg	1	1.00	79	52 - 117

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Sample: 186233 - AH-3 2-2.5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		213	mg/Kg	50	4.00

Sample: 186234 - AH-4 0-1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56570	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48337				

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

Sample: 186234 - AH-4 0-1'

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		236	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		105	mg/Kg	1	100	105	10 - 250.4

Sample: 186234 - AH-4 0-1'

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-02	Analyzed By:	ME
QC Batch:	56568	Sample Preparation:	2009-02-02	Prepared By:	AG
Prep Batch:	48335				

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		9.74	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.885	mg/Kg	1	1.00	88	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.873	mg/Kg	1	1.00	87	52 - 117

Sample: 186235 - AH-4 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56571
Prep Batch: 48338

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		356	mg/Kg	50	4.00

Sample: 186235 - AH-4 1-1.5'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 56536
Prep Batch: 48301

Analytical Method: Mod. 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

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-Triacontane		90.6	mg/Kg	1	100	91	10 - 250.4

Sample: 186235 - AH-4 1-1.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56568
Prep Batch: 48335

Analytical Method: S 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

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sample 186235 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.64	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.916	mg/Kg	1	1.00	92	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.744	mg/Kg	1	1.00	74	52 - 117

Sample: 186236 - AH-4 2-2.5'

Laboratory:	Midland						
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A		
QC Batch:	56571	Date Analyzed:	2009-02-03	Analyzed By:	AR		
Prep Batch:	48338	Sample Preparation:	2009-02-03	Prepared By:	AR		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		272	mg/Kg	50	4.00

Sample: 186237 - AH-5 0-1' (1.5' BEB)

Laboratory:	Midland						
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A		
QC Batch:	56571	Date Analyzed:	2009-02-03	Analyzed By:	AR		
Prep Batch:	48338	Sample Preparation:	2009-02-03	Prepared By:	AR		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2660	mg/Kg	50	4.00

Sample: 186237 - AH-5 0-1' (1.5' BEB)

Laboratory:	Midland						
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A		
QC Batch:	56536	Date Analyzed:	2009-02-02	Analyzed By:	LD		
Prep Batch:	48301	Sample Preparation:	2009-02-02	Prepared By:	LD		

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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-Triacontane		94.3	mg/Kg	1	100	94	10 - 250.4

Sample: 186237 - AH-5 0-1' (1.5' BEB)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56568
Prep Batch: 48335

Analytical Method: S 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

Prep Method: S 5035
Analyzed By: ME
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)		0.911	mg/Kg	1	1.00	91	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.747	mg/Kg	1	1.00	75	52 - 117

Sample: 186238 - AH-5 1-1.5' (1.5' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56571
Prep Batch: 48338

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1730	mg/Kg	50	4.00

Sample: 186238 - AH-5 1-1.5' (1.5' BEB)

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 56536
Prep Batch: 48301

Analytical Method: Mod. 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

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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-Triacontane		88.0	mg/Kg	1	100	88	10 - 250.4

Sample: 186238 - AH-5 1-1.5' (1.5' BEB)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56568
Prep Batch: 48335

Analytical Method: S 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

Prep Method: S 5035
Analyzed By: ME
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)		0.905	mg/Kg	1	1.00	90	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.853	mg/Kg	1	1.00	85	52 - 117

Sample: 186239 - AH-5 2-2.5' (1.5' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56571
Prep Batch: 48338

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1670	mg/Kg	50	4.00

Sample: 186240 - AH-5 3-3.5' (1.5' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56571
Prep Batch: 48338

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1680	mg/Kg	50	4.00

Sample: 186241 - AH-6 0-1' (1' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 56571 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48338 Sample Preparation: 2009-02-03 Prepared By: AR

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

Sample: 186241 - AH-6 0-1' (1' BEB)

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 56536 Date Analyzed: 2009-02-02 Analyzed By: LD
Prep Batch: 48301 Sample Preparation: 2009-02-02 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		770	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	⁵	514	mg/Kg	5	100	514	10 - 250.4

Sample: 186241 - AH-6 0-1' (1' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 56568 Date Analyzed: 2009-02-02 Analyzed By: ME
Prep Batch: 48335 Sample Preparation: 2009-02-02 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		4.87	mg/Kg	1	1.00

⁵High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.834	mg/Kg	1	1.00	83	52 - 117

Sample: 186242 - AH-6 1-1.5' (1' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 56571 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48338 Sample Preparation: 2009-02-03 Prepared By: AR

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

Sample: 186242 - AH-6 1-1.5' (1' BEB)

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 56536 Date Analyzed: 2009-02-02 Analyzed By: LD
Prep Batch: 48301 Sample Preparation: 2009-02-02 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		405	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	⁶	492	mg/Kg	5	100	492	10 - 250.4

Sample: 186242 - AH-6 1-1.5' (1' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 56568 Date Analyzed: 2009-02-02 Analyzed By: ME
Prep Batch: 48335 Sample Preparation: 2009-02-02 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.82	mg/Kg	1	1.00

⁶High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.882	mg/Kg	1	1.00	88	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.826	mg/Kg	1	1.00	83	52 - 117

Sample: 186243 - AH-7 0-1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 56604
Prep Batch: 48366

Analytical Method: S 8021B
Date Analyzed: 2009-02-04
Sample Preparation: 2009-02-04

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.54	mg/Kg	10	0.0100
Toluene		36.7	mg/Kg	10	0.0100
Ethylbenzene		33.3	mg/Kg	10	0.0100
Xylene		76.9	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		11.7	mg/Kg	10	10.0	117	49 - 129.7
4-Bromofluorobenzene (4-BFB)	⁷	16.1	mg/Kg	10	10.0	161	45.2 - 144.3

Sample: 186243 - AH-7 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56571
Prep Batch: 48338

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-03
Sample Preparation: 2009-02-03

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: 186243 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 56536
Prep Batch: 48301

Analytical Method: Mod. 8015B
Date Analyzed: 2009-02-02
Sample Preparation: 2009-02-02

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

⁷High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
DRO		7800	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	⁸	1160	mg/Kg	5	100	1160	10 - 250.4

Sample: 186243 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56605
Prep Batch: 48366

Analytical Method: S 8015B
Date Analyzed: 2009-02-04
Sample Preparation: 2009-02-04

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		5280	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁹	12.6	mg/Kg	10	10.0	126	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	¹⁰	66.0	mg/Kg	10	10.0	660	52 - 117

Sample: 186244 - AH-7 1-1.5'

Laboratory: Midland
Analysis: BTEX
QC Batch: 56604
Prep Batch: 48366

Analytical Method: S 8021B
Date Analyzed: 2009-02-04
Sample Preparation: 2009-02-04

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		1.40	mg/Kg	10	0.0100
Ethylbenzene		2.73	mg/Kg	10	0.0100
Xylene		6.07	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		11.7	mg/Kg	10	10.0	117	49 - 129.7
4-Bromofluorobenzene (4-BFB)		14.4	mg/Kg	10	10.0	144	45.2 - 144.3

⁸High surrogate recovery due to peak interference.

⁹High surrogate recovery due to peak interference.

¹⁰High surrogate recovery due to peak interference.

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Sample: 186244 - AH-7 1-1.5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56571	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48338				

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

Sample: 186244 - AH-7 1-1.5'

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-02	Analyzed By:	LD
QC Batch:	56536	Sample Preparation:	2009-02-02	Prepared By:	LD
Prep Batch:	48301				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		473	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	100	147	10 - 250.4

Sample: 186244 - AH-7 1-1.5'

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-04	Analyzed By:	ME
QC Batch:	56605	Sample Preparation:	2009-02-04	Prepared By:	ME
Prep Batch:	48366				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		517	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.99	mg/Kg	10	10.0	100	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	¹¹	14.4	mg/Kg	10	10.0	144	52 - 117

¹¹High surrogate recovery due to peak interference.

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Sample: 186245 - AH-7 2-2.5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2009-02-03	Analyzed By:	AR
QC Batch:	56572	Sample Preparation:	2009-02-03	Prepared By:	AR
Prep Batch:	48339				

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

Sample: 186245 - AH-7 2-2.5'

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-02-03	Analyzed By:	LD
QC Batch:	56560	Sample Preparation:	2009-02-03	Prepared By:	LD
Prep Batch:	48328				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		503	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		152	mg/Kg	1	100	152	10 - 250.4

Sample: 186245 - AH-7 2-2.5'

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-02-04	Analyzed By:	ME
QC Batch:	56605	Sample Preparation:	2009-02-04	Prepared By:	ME
Prep Batch:	48366				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		250	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.02	mg/Kg	10	10.0	90	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	12	11.9	mg/Kg	10	10.0	119	52 - 117

¹²High surrogate recovery due to peak interference.

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Method Blank (1) QC Batch: 56536

QC Batch: 56536
Prep Batch: 48301

Date Analyzed: 2009-02-02
QC Preparation: 2009-02-02

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		95.3	mg/Kg	1	100	95	30.9 - 146.4

Method Blank (1) QC Batch: 56560

QC Batch: 56560
Prep Batch: 48328

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		79.0	mg/Kg	1	100	79	30.9 - 146.4

Method Blank (1) QC Batch: 56568

QC Batch: 56568
Prep Batch: 48335

Date Analyzed: 2009-02-02
QC Preparation: 2009-02-02

Analyzed By: ME
Prepared By: ME

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)		0.923	mg/Kg	1	1.00	92	75.8 - 98.5
4-Bromofluorobenzene (4-BFB)		0.585	mg/Kg	1	1.00	58	56.5 - 109.5

Method Blank (1) QC Batch: 56570

QC Batch: 56570
Prep Batch: 48337

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

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Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 56571

QC Batch: 56571 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48338 QC Preparation: 2009-02-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 56572

QC Batch: 56572 Date Analyzed: 2009-02-03 Analyzed By: AR
Prep Batch: 48339 QC Preparation: 2009-02-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 56604

QC Batch: 56604 Date Analyzed: 2009-02-04 Analyzed By: ME
Prep Batch: 48366 QC Preparation: 2009-02-04 Prepared By: ME

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)		1.18	mg/Kg	1	1.00	118	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	1.00	121	51.9 - 128.1

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Method Blank (1) QC Batch: 56605

QC Batch: 56605 Date Analyzed: 2009-02-04 Analyzed By: ME
Prep Batch: 48366 QC Preparation: 2009-02-04 Prepared By: ME

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)		0.926	mg/Kg	1	1.00	93	75.8 - 98.5
4-Bromofluorobenzene (4-BFB)		0.941	mg/Kg	1	1.00	94	56.5 - 109.5

Laboratory Control Spike (LCS-1)

QC Batch: 56536 Date Analyzed: 2009-02-02 Analyzed By: LD
Prep Batch: 48301 QC Preparation: 2009-02-02 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	279	mg/Kg	1	250	<12.0	112	27.8 - 152.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	301	mg/Kg	1	250	<12.0	120	27.8 - 152.1	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	96.7	99.0	mg/Kg	1	100	97	99	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 56560 Date Analyzed: 2009-02-03 Analyzed By: LD
Prep Batch: 48328 QC Preparation: 2009-02-03 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	282	mg/Kg	1	250	<12.0	113	27.8 - 152.1

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	258	mg/Kg	1	250	<12.0	103	27.8 - 152.1	9	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	102	94.3	mg/Kg	1	100	102	94	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 56568
Prep Batch: 48335

Date Analyzed: 2009-02-02
QC Preparation: 2009-02-02

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.14	mg/Kg	1	10.0	<0.482	61	60.5 - 100.1

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	6.28	mg/Kg	1	10.0	<0.482	63	60.5 - 100.1	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)	0.974	0.980	mg/Kg	1	1.00	97	98	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	0.757	0.715	mg/Kg	1	1.00	76	72	66.1 - 107.3

Laboratory Control Spike (LCS-1)

QC Batch: 56570
Prep Batch: 48337

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	103	mg/Kg	1	100	<2.01	103	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	<2.01	101	85 - 115	2	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: 56571
Prep Batch: 48338

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.7	mg/Kg	1	100	<2.01	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	99.6	mg/Kg	1	100	<2.01	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: 56572
Prep Batch: 48339

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

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	<2.01	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	<2.01	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: 56604
Prep Batch: 48366

Date Analyzed: 2009-02-04
QC Preparation: 2009-02-04

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.07	mg/Kg	1	1.00	<0.00100	107	72.7 - 129.8
Toluene	1.08	mg/Kg	1	1.00	<0.00100	108	71.6 - 129.6
Ethylbenzene	1.09	mg/Kg	1	1.00	<0.00110	109	70.8 - 129.7
Xylene	3.34	mg/Kg	1	3.00	<0.00360	111	70.9 - 129.4

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.09	mg/Kg	1	1.00	<0.00100	109	72.7 - 129.8	2	20
Toluene	1.10	mg/Kg	1	1.00	<0.00100	110	71.6 - 129.6	2	20
Ethylbenzene	1.12	mg/Kg	1	1.00	<0.00110	112	70.8 - 129.7	3	20
Xylene	3.44	mg/Kg	1	3.00	<0.00360	115	70.9 - 129.4	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.18	1.18	mg/Kg	1	1.00	118	118	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.22	1.22	mg/Kg	1	1.00	122	122	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 56605
Prep Batch: 48366

Date Analyzed: 2009-02-04
QC Preparation: 2009-02-04

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.40	mg/Kg	1	10.0	<0.482	94	60.5 - 100.1

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	9.21	mg/Kg	1	10.0	<0.482	92	60.5 - 100.1	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)	0.994	1.00	mg/Kg	1	1.00	99	100	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	0.945	0.958	mg/Kg	1	1.00	94	96	66.1 - 107.3

Matrix Spike (MS-1) Spiked Sample: 186228

QC Batch: 56536
Prep Batch: 48301

Date Analyzed: 2009-02-02
QC Preparation: 2009-02-02

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	¹³ 1970	mg/Kg	5	250	1120	340	18 - 179.5

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

¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	¹⁴	2000	mg/Kg	5	250	1120	352	18 - 179.5	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-Triacontane	^{15 16}	622	670	mg/Kg	5	100	622	670	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 186245

QC Batch: 56560
Prep Batch: 48328

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: LD
Prepared By: LD

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	¹⁷	544	mg/Kg	1	250	503.36	16	18 - 179.5

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	¹⁸	522	mg/Kg	1	250	503.36	7	18 - 179.5	4	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane		120	116	mg/Kg	1	100	120	116	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 186238

QC Batch: 56568
Prep Batch: 48335

Date Analyzed: 2009-02-02
QC Preparation: 2009-02-02

Analyzed By: ME
Prepared By: ME

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		10.4	mg/Kg	1	10.0	<0.482	104	12.8 - 175.2

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

¹⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁵High surrogate recovery due to peak interference.

¹⁶High surrogate recovery due to peak interference.

¹⁷Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁸Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹⁹ 13.4	mg/Kg	1	10.0	<0.482	134	12.8 - 175.2	25	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)	1.02	1.08	mg/Kg	1	1	102	108	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	0.886	0.855	mg/Kg	1	1	89	86	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 186234

QC Batch: 56570
Prep Batch: 48337

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5280	mg/Kg	50	5000	129	103	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5310	mg/Kg	50	5000	129	104	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: 186244

QC Batch: 56571
Prep Batch: 48338

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5180	mg/Kg	50	5000	<100	103	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5270	mg/Kg	50	5000	<100	105	85 - 115	2	20

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

¹⁹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

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Matrix Spike (MS-1) Spiked Sample: 186245

QC Batch: 56572
Prep Batch: 48339

Date Analyzed: 2009-02-03
QC Preparation: 2009-02-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5160	mg/Kg	50	5000	<100	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	5210	mg/Kg	50	5000	<100	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: 186373

QC Batch: 56604
Prep Batch: 48366

Date Analyzed: 2009-02-04
QC Preparation: 2009-02-04

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.13	mg/Kg	1	1.00	<0.00100	113	58.6 - 165.2
Toluene	1.17	mg/Kg	1	1.00	<0.00100	117	64.2 - 153.8
Ethylbenzene	1.18	mg/Kg	1	1.00	<0.00110	118	61.6 - 159.4
Xylene	3.63	mg/Kg	1	3.00	<0.00360	121	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	1.09	mg/Kg	1	1.00	<0.00100	109	58.6 - 165.2	4	20
Toluene	1.13	mg/Kg	1	1.00	<0.00100	113	64.2 - 153.8	4	20
Ethylbenzene	1.18	mg/Kg	1	1.00	<0.00110	118	61.6 - 159.4	0	20
Xylene	3.63	mg/Kg	1	3.00	<0.00360	121	64.4 - 155.3	0	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)	1.17	1.18	mg/Kg	1	1	117	118	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.21	1.21	mg/Kg	1	1	121	121	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 186231

QC Batch: 56605
Prep Batch: 48366

Date Analyzed: 2009-02-04
QC Preparation: 2009-02-04

Analyzed By: ME
Prepared By: ME

Report Date: February 6, 2009
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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	718	mg/Kg	1	100	563	155	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	RPD Limit
GRO	687	mg/Kg	1	100	563	124	12.8 - 175.2	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	10.2	10.0	mg/Kg	1	10	102	100	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	17.9	18.0	mg/Kg	1	10	179	180	31.3 - 161.7

Standard (ICV-1)

QC Batch: 56536

Date Analyzed: 2009-02-02

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	284	114	85 - 115	2009-02-02

Standard (CCV-1)

QC Batch: 56536

Date Analyzed: 2009-02-02

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	104	85 - 115	2009-02-02

Standard (CCV-2)

QC Batch: 56536

Date Analyzed: 2009-02-02

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	286	114	85 - 115	2009-02-02

²⁰ High surrogate recovery due to peak interference.

²¹ High surrogate recovery due to peak interference.

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Standard (ICV-1)

QC Batch: 56560

Date Analyzed: 2009-02-03

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	233	93	85 - 115	2009-02-03

Standard (CCV-1)

QC Batch: 56560

Date Analyzed: 2009-02-03

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	85 - 115	2009-02-03

Standard (ICV-1)

QC Batch: 56568

Date Analyzed: 2009-02-02

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.849	85	85 - 115	2009-02-02

Standard (CCV-1)

QC Batch: 56568

Date Analyzed: 2009-02-02

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2009-02-02

Standard (CCV-2)

QC Batch: 56568

Date Analyzed: 2009-02-02

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	85 - 115	2009-02-02

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Standard (ICV-1)

QC Batch: 56570

Date Analyzed: 2009-02-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2009-02-03

Standard (CCV-1)

QC Batch: 56570

Date Analyzed: 2009-02-03

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	2009-02-03

Standard (ICV-1)

QC Batch: 56571

Date Analyzed: 2009-02-03

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	2009-02-03

Standard (CCV-1)

QC Batch: 56571

Date Analyzed: 2009-02-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2009-02-03

Standard (ICV-1)

QC Batch: 56572

Date Analyzed: 2009-02-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2009-02-03

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Standard (CCV-1)

QC Batch: 56572

Date Analyzed: 2009-02-03

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	2009-02-03

Standard (ICV-1)

QC Batch: 56604

Date Analyzed: 2009-02-04

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.106	106	85 - 115	2009-02-04
Toluene		mg/Kg	0.100	0.110	110	85 - 115	2009-02-04
Ethylbenzene		mg/Kg	0.100	0.111	111	85 - 115	2009-02-04
Xylene		mg/Kg	0.300	0.344	115	85 - 115	2009-02-04

Standard (CCV-1)

QC Batch: 56604

Date Analyzed: 2009-02-04

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.105	105	85 - 115	2009-02-04
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2009-02-04
Ethylbenzene		mg/Kg	0.100	0.111	111	85 - 115	2009-02-04
Xylene		mg/Kg	0.300	0.343	114	85 - 115	2009-02-04

Standard (ICV-1)

QC Batch: 56605

Date Analyzed: 2009-02-04

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2009-02-04

Standard (CCV-1)

QC Batch: 56605

Date Analyzed: 2009-02-04

Analyzed By: ME

Report Date: February 6, 2009
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2009-02-04

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Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)

TETRA TECH

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



CLIENT NAME: *St. Mary's* SITE MANAGER: *Ike Tavaraz*

PROJECT NO.: *115-6403676* PROJECT NAME: *St. Mary's / Thano CNG*

LAB I.D. NUMBER: *2009* DATE: *4/25* TIME: *11:15* SAMPLE IDENTIFICATION: *Edley Co. NM*

MATRIX: *S* COMP: *X* GRAB: *X*

186225	4/25	S	X	AH-1	0-1'	(1' BEB)
226				AH-1	1'-1.5'	(1' BEB)
227				AH-1	2'-2.5'	(1' BEB)
228				AH-2	0-1'	
229				AH-2	1'-1.5'	
230				AH-2	2'-2.5'	
231				AH-3	0-1'	
232				AH-3	1'-1.5'	
233				AH-3	2'-2.5'	
234				AH-4	0-1'	

RELINQUISHED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15* RECEIVED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15*

RELINQUISHED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15* RECEIVED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15*

RELINQUISHED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15* RECEIVED BY: (Signature) *[Signature]* Date: *1/30/04* Time: *12:15*

RECEIVING LABORATORY: *Midland* ADDRESS: *Midland* STATE: *TX* PHONE: *777* ZIP: *79705*

REMARKS: *Run added to TPAH at TPA records 100mg/kg*

LABORATORY: *Midland* ADDRESS: *Midland* STATE: *TX* PHONE: *777* ZIP: *79705*

LABORATORY: *Midland* ADDRESS: *Midland* STATE: *TX* PHONE: *777* ZIP: *79705*

Report Date: February 12, 2009
115-6403679

Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

Page Number: 1 of 1
Eddy County, NM

Summary Report

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

Report Date: February 12, 2009

Work Order: 9020922



Project Location: Eddy County, NM
Project Name: St. Mary/Tirano CNG #1 Tank Battery
Project Number: 115-6403679

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
186982	AH-1 3'-3.5' BEB (1.0')	soil	2009-02-09	00:00	2009-02-09
186983	AH-1 5'-5.5' BEB (1.0')	soil	2009-02-09	00:00	2009-02-09
186984	AH-7 3'-3.5'	soil	2009-02-09	00:00	2009-02-09

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
186984 - AH-7 3'-3.5'	348	36.7

Sample: 186982 - AH-1 3'-3.5' BEB (1.0')

Param	Flag	Result	Units	RL
Chloride		443	mg/Kg	4.00

Sample: 186983 - AH-1 5'-5.5' BEB (1.0')

Param	Flag	Result	Units	RL
Chloride		483	mg/Kg	4.00



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

Report Date: February 12, 2009

Work Order: 9020922



Project Location: Eddy County, NM
Project Name: St. Mary/Tirano CNG #1 Tank Battery
Project Number: 115-6403679

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
186982	AH-1 3'-3.5' BEB (1.0')	soil	2009-02-09	00:00	2009-02-09
186983	AH-1 5'-5.5' BEB (1.0')	soil	2009-02-09	00:00	2009-02-09
186984	AH-7 3'-3.5'	soil	2009-02-09	00:00	2009-02-09

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project St. Mary/Tirano CNG #1 Tank Battery were received by TraceAnalysis, Inc. on 2009-02-09 and assigned to work order 9020922. Samples for work order 9020922 were received intact at a temperature of 11.3 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	48493	2009-02-10 at 10:49	56758	2009-02-10 at 15:49
TPH DRO	Mod. 8015B	48474	2009-02-10 at 10:00	56739	2009-02-10 at 11:00
TPH GRO	S 8015B	48501	2009-02-10 at 10:00	56768	2009-02-10 at 10:43

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 9020922 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: February 12, 2009
115-6403679

Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Analytical Report

Sample: 186982 - AH-1 3'-3.5' BEB (1.0')

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56758
Prep Batch: 48493

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-10
Sample Preparation: 2009-02-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		443	mg/Kg	50	4.00

Sample: 186983 - AH-1 5'-5.5' BEB (1.0')

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56758
Prep Batch: 48493

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-02-10
Sample Preparation: 2009-02-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		483	mg/Kg	50	4.00

Sample: 186984 - AH-7 3'-3.5'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 56739
Prep Batch: 48474

Analytical Method: Mod. 8015B
Date Analyzed: 2009-02-10
Sample Preparation: 2009-02-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		348	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	100	144	10 - 250.4

Report Date: February 12, 2009
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Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Sample: 186984 - AH-7 3'-3.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 56768
Prep Batch: 48501

Analytical Method: S 8015B
Date Analyzed: 2009-02-10
Sample Preparation: 2009-02-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		36.7	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)	¹	1.25	mg/Kg	1	1.00	125	52 - 117

Method Blank (1) QC Batch: 56739

QC Batch: 56739
Prep Batch: 48474

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		86.4	mg/Kg	1	100	86	30.9 - 146.4

Method Blank (1) QC Batch: 56758

QC Batch: 56758
Prep Batch: 48493

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 56768

QC Batch: 56768
Prep Batch: 48501

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AG
Prepared By: AG

¹High surrogate recovery due to peak interference.

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115-6403679

Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

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)		0.950	mg/Kg	1	1.00	95	75.8 - 98.5
4-Bromofluorobenzene (4-BFB)		0.968	mg/Kg	1	1.00	97	56.5 - 109.5

Laboratory Control Spike (LCS-1)

QC Batch: 56739
Prep Batch: 48474

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	262	mg/Kg	1	250	<12.0	105	27.8 - 152.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	290	mg/Kg	1	250	<12.0	116	27.8 - 152.1	10	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-Triacontane	103	108	mg/Kg	1	100	103	108	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 56758
Prep Batch: 48493

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.9	mg/Kg	1	100	<2.01	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.3	mg/Kg	1	100	<2.01	99	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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St. Mary/Tirano CNG #1 Tank Battery

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Laboratory Control Spike (LCS-1)

QC Batch: 56768
Prep Batch: 48501

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.03	mg/Kg	1	10.0	<0.482	90	60.5 - 100.1

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	8.98	mg/Kg	1	10.0	<0.482	90	60.5 - 100.1	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.992	0.989	mg/Kg	1	1.00	99	99	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.03	1.05	mg/Kg	1	1.00	103	105	66.1 - 107.3

Matrix Spike (MS-1) Spiked Sample: 186984

QC Batch: 56739
Prep Batch: 48474

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	² 296	mg/Kg	1	250	296	0	18 - 179.5

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	³ 288	mg/Kg	1	250	296	0	18 - 179.5	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	122	113	mg/Kg	1	100	122	113	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 186983

QC Batch: 56758
Prep Batch: 48493

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AR
Prepared By: AR

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

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

Report Date: February 12, 2009
115-6403679

Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5610	mg/Kg	50	5000	483	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	5560	mg/Kg	50	5000	483	102	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: 186984

QC Batch: 56768
Prep Batch: 48501

Date Analyzed: 2009-02-10
QC Preparation: 2009-02-10

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	⁴ 37.6	mg/Kg	1	10.0	36.7	9	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	RPD Limit
GRO	⁵ 77.6	mg/Kg	1	10.0	36.7	409	12.8 - 175.2	69	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)	1.10	1.10	mg/Kg	1	1	110	110	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.16	1.42	mg/Kg	1	1	116	142	31.3 - 161.7

Standard (ICV-1)

QC Batch: 56739

Date Analyzed: 2009-02-10

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	250	100	85 - 115	2009-02-10

Standard (CCV-1)

QC Batch: 56739

Date Analyzed: 2009-02-10

Analyzed By: LD

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

⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: February 12, 2009
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Work Order: 9020922
St. Mary/Tirano CNG #1 Tank Battery

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	85 - 115	2009-02-10

Standard (ICV-1)

QC Batch: 56758 Date Analyzed: 2009-02-10 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-02-10

Standard (CCV-1)

QC Batch: 56758 Date Analyzed: 2009-02-10 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2009-02-10

Standard (ICV-1)

QC Batch: 56768 Date Analyzed: 2009-02-10 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2009-02-10

Standard (CCV-1)

QC Batch: 56768 Date Analyzed: 2009-02-10 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	1.13	113	85 - 115	2009-02-10

Work Order # 902556

Analysis Request of Chain of Custody Record

PAGE: / OF: /

ANALYSIS REQUEST
(Circle or Specify Method No.)

TETRA TECH

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

[illegible]

Please fill out all copies -	Laboratory retains Yellow copy -	Return Original copy to Tetra Tech -	Project Manager retains Pink copy -	Accounting receives Gold copy.
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Report Date: March 13, 2009
115-6403679

Work Order: 9030419
St. Mary/Tirano CNG #1 Tank Battery

Page Number: 1 of 4
Eddy County, NM

Summary Report

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

Report Date: March 13, 2009

Work Order: 9030419



Project Location: Eddy County, NM
Project Name: St. Mary/Tirano CNG #1 Tank Battery
Project Number: 115-6403679

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
189000	T-1 4.0'	soil	2009-03-03	00:00	2009-03-04
189005	T-2 2.0'	soil	2009-03-03	00:00	2009-03-04
189006	T-2 3.0'	soil	2009-03-03	00:00	2009-03-04
189009	T-3 4.0'	soil	2009-03-03	00:00	2009-03-04
189010	T-3 5.0'	soil	2009-03-03	00:00	2009-03-04
189011	T-3 6.0'	soil	2009-03-03	00:00	2009-03-04
189012	T-3 8.0'	soil	2009-03-03	00:00	2009-03-04
189013	T-3 10.0'	soil	2009-03-03	00:00	2009-03-04
189014	Background #1 0-1.0'	soil	2009-03-03	00:00	2009-03-04
189015	Background #1 2.0'	soil	2009-03-03	00:00	2009-03-04
189016	Background #1 4.0'	soil	2009-03-03	00:00	2009-03-04
189017	Background #1 6.0'	soil	2009-03-03	00:00	2009-03-04
189018	Background #1 8.0'	soil	2009-03-03	00:00	2009-03-04
189019	Background #1 10.0'	soil	2009-03-03	00:00	2009-03-04
189020	Background #1 12.0'	soil	2009-03-03	00:00	2009-03-04
189021	Background #2 0-1.0'	soil	2009-03-03	00:00	2009-03-04
189022	Background #2 2.0'	soil	2009-03-03	00:00	2009-03-04
189023	Background #2 4.0'	soil	2009-03-03	00:00	2009-03-04
189024	Background #2 6.0'	soil	2009-03-03	00:00	2009-03-04
189025	Background #2 8.0'	soil	2009-03-03	00:00	2009-03-04

Sample - Field Code	TPH DRO	TPH GRO
	DRO (mg/Kg)	GRO (mg/Kg)
189000 - T-1 4.0'	<50.0	1.83
189005 - T-2 2.0'	102	2.96
189006 - T-2 3.0'	<50.0	<1.00

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Work Order: 9030419
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Sample: 189009 - T-3 4.0'

Param	Flag	Result	Units	RL
Chloride		1270	mg/Kg	4.00

Sample: 189010 - T-3 5.0'

Param	Flag	Result	Units	RL
Chloride		1800	mg/Kg	4.00

Sample: 189011 - T-3 6.0'

Param	Flag	Result	Units	RL
Chloride		1530	mg/Kg	4.00

Sample: 189012 - T-3 8.0'

Param	Flag	Result	Units	RL
Chloride		886	mg/Kg	4.00

Sample: 189013 - T-3 10.0'

Param	Flag	Result	Units	RL
Chloride		784	mg/Kg	4.00

Sample: 189014 - Background #1 0-1.0'

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

Sample: 189015 - Background #1 2.0'

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

Sample: 189016 - Background #1 4.0'

Param	Flag	Result	Units	RL
Chloride		297	mg/Kg	4.00

Report Date: March 13, 2009
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Work Order: 9030419
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Sample: 189017 - Background #1 6.0'

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

Sample: 189018 - Background #1 8.0'

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

Sample: 189019 - Background #1 10.0'

Param	Flag	Result	Units	RL
Chloride		213	mg/Kg	4.00

Sample: 189020 - Background #1 12.0'

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

Sample: 189021 - Background #2 0-1.0'

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

Sample: 189022 - Background #2 2.0'

Param	Flag	Result	Units	RL
Chloride		229	mg/Kg	4.00

Sample: 189023 - Background #2 4.0'

Param	Flag	Result	Units	RL
Chloride		609	mg/Kg	4.00

Sample: 189024 - Background #2 6.0'

Param	Flag	Result	Units	RL
Chloride		906	mg/Kg	4.00

Report Date: March 13, 2009
115-6403679

Work Order: 9030419
St. Mary/Tirano CNG #1 Tank Battery

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Eddy County, NM

Sample: 189025 - Background #2 8.0'

Param	Flag	Result	Units	RL
Chloride		890	mg/Kg	4.00