

SITE INFORMATION

Report Type: Work Plan

General Site Information:

Site:	Geronimo Federal Injection Station	
Company:	SM Energy Company	
Section, Township and Range	Section 24, T18S, R31E	Unit Letter - G
Lease Number:		
County:	Eddy County	
GPS:	32.73376° N, 103.82179° W	
Surface Owner:	Federal	
Mineral Owner:		
Directions:	From the intersection of Hwy 82 and Shugart Rd (Loco Hills), go south on Shugart Rd exactly 4 miles. Turn to the Southeast on a caliche road and travel southeast for another 4 miles until the road ends. Turn onto the road to the northeast and travel approximately 1.1 miles to the location.	

Release Data:

Date Released:	12/13/2009
Type Release:	Produced Water
Source of Contamination:	Leak in change over from fiberglass to steel injection line
Fluid Released:	475 bbls
Fluids Recovered:	440 bbls

Official Communication:

Name:	Chad McNeely	Aaron Hale
Company:	SM Energy Company	Tetra Tech
Address:	3300 N A St # 7-200	1910 N. Big Spring
P.O. Box		
City:	Midland, Texas	Midland, Texas
Phone number:	(432) 688-3124	(432) 682-4559
Fax:		
Email:	cmcneely@sm-energy.com	aaron.hale@tetrtech.com

Ranking Criteria:

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
Wellhead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0

Total Ranking Score:

0

RECEIVED

MAY 10 2011

NMOCD ARTESIA

Acceptable Soil IRRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000



April 26, 2011

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

**Re: Work Plan for SM Energy Company
Geronimo Federal Injection Station
Fiberglass Injection Line Release,
Unit G, Section 24, Township 18 South, Range 31 East
Eddy County, New Mexico**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by SM Energy Company (SM Energy) to assess a fiberglass injection line release at the Geronimo Federal Injection Station located in Unit G, Section 24, Township 18 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.73376°, W 103.82179°. 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 December 13, 2009. Approximately 475 barrels of produced water were released from a 2-3/8 inch fiberglass injection line. Approximately 440 barrels of produced water were recovered. The fiberglass line was repaired with new connections. The initial C-141 is enclosed in Appendix A.

Hydrology

The New Mexico Office of the State Engineers (OSE) Website listed two water wells within 2 miles of the site. The closest well (identified by the OSE as CP 00896) did not have any information available. The second closest well (identified by the OSE as CP 00672) had a total depth of 540 feet and a depth to water of 460 feet. The Geology and Ground-Water Resources of Eddy County, New Mexico (Report 3) showed the closest well to be in Section 34 of Township 17 South and Range 31 East. This well is over 4 miles from the site, is reported to be over 271 in depth with a pumping rate of approximately 3.5 gallons per minute. Depth to water for this well is not available. The New Mexico Oil Conservation Division (OCD) regional groundwater gradient map for Eddy County shows the depth to groundwater in this section at approximately 280 feet.

According to the Geology and Ground-Water Resources of Eddy County, New Mexico (Report 3), the Santa Rosa Sandstone (Dockum Group) is present in a belt 10 to



TETRA TECH

20 miles wide along the east border of Eddy County. The Santa Rosa Sandstone consists of fine to coarse grain sands with minor shale layers generally red in coloration.

On May 17, 2010, Tetra Tech advanced 5 soil borings (SB-1, SB-2, SB-3, SB-4 and SB-5) to assess the current chloride concentrations at varying depths at the Site. During the soil boring program, groundwater was not encountered.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the OCD 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 Results

On February 18, 2010, Tetra Tech personnel collected soils samples from up to 5.5 feet bgs utilizing a hand auger at seven locations within the spill area. The spill area was estimated to cover approximately 7,200 square feet. Soil sampling stopped in each location when auger refusal occurred. Soil samples were submitted for laboratory analysis of TPH by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The laboratory analytical data indicated that the soil samples did not have BTEX or TPH concentrations above their detection limits. Chloride concentrations did however exceed 1,000 mg/kg.

On May 17, 2010, Tetra Tech personnel remobilized to the site with a drilling rig to advance soil borings in the areas previously assessed with a hand auger. SB-1 and SB-2 were advanced to 50 feet below ground surface (bgs), SB-3 was advanced to 40 feet bgs, SB-4 was advanced to 15 feet bgs and SB-5 was advanced to 13 feet bgs. Soil samples from the borings were submitted for laboratory analysis to evaluate the chloride concentration. The bottom sample in each boring did not exhibit chloride concentrations above the laboratory detection limits.

Referring to Table 1, all of the samples analyzed were below the RRAL for both BTEX and TPH. Analytical results indicate the maximum extent of chloride impact greater than 1,000 mg/kg extending to 40 feet (SB-1), 25 feet (SB-2), 20 feet (SB-3), 6 feet (SB-4) and 3 feet (SB-5). All sample locations had chloride concentrations that decreased with depth. 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 borehole locations are shown on Figure 3.

Work Plan

The main area of this spill was contained on the well pad. This well pad also contains 11 tanks and a truck loading point used for the injection station. The proposed



TETRA TECH

excavation plan is intended to minimize disruption to the facility while removing the greatest mass of chloride impacted soils and placing a liner within the spill area to reduce the leaching of surface water thru the vadose zone. The area around SB-1, SB-2 and SB-3 will be excavated to a depth of approximately 5 feet bgs, 7 feet bgs and 10 feet bgs, respectively. These three areas will be backfilled to a depth of approximately 4 feet bgs with clean soil. A 40 mil liner will be placed in these areas at a depth of 4 feet prior to backfilling these areas to match the surrounding grade. In addition, there is an area of historic soil staining that is visible in the vicinity of SB-3. This area will be scraped to a depth of approximately 2 feet bgs as a general housekeeping item. This area will be backfilled without the use of a liner. The excavation details are shown on Figure 4.

The area to the North of the spill that was not contained on the well pad has chloride concentrations in excess of 1,000 mg/kg only in the upper 3 feet. This area (surrounding SB-4 and SB5) will be excavated to a depth of approximately 3 feet below the current depth of this former borrow pit. This area will be backfilled with clean soil to the base of the current borrow pit. Soils excavated from all areas will be transported under manifest to Lea Land, Inc.'s Landfill in Eddy County.

The soil borings advanced at this site indicate the presence of poorly consolidated sands in the subsurface. These sands may make the excavation of soils unsafe to site workers and equipment as well as potentially damaging the foundations of the adjacent tank battery should the sand begin to slough off into the excavation. Should this happen, the excavation activities will stop and the excavation will be backfilled and lined as previously planned. The OCD will be notified if the safe excavation of soils as planned is not possible.

Once the remedial activities are performed a closure report will be submitted for the soils at the site. If you require any additional information or have any questions or comments concerning this work plan, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH, INC.

A handwritten signature in black ink, appearing to read "Aaron M. Hale".

Aaron M. Hale
Senior Project Manager

cc: Chad McNeely – SM Energy Company
Don Riggs – SM Energy Company
Mark Bondy – SM Energy Company
BLM – Jim Amos

FIGURES

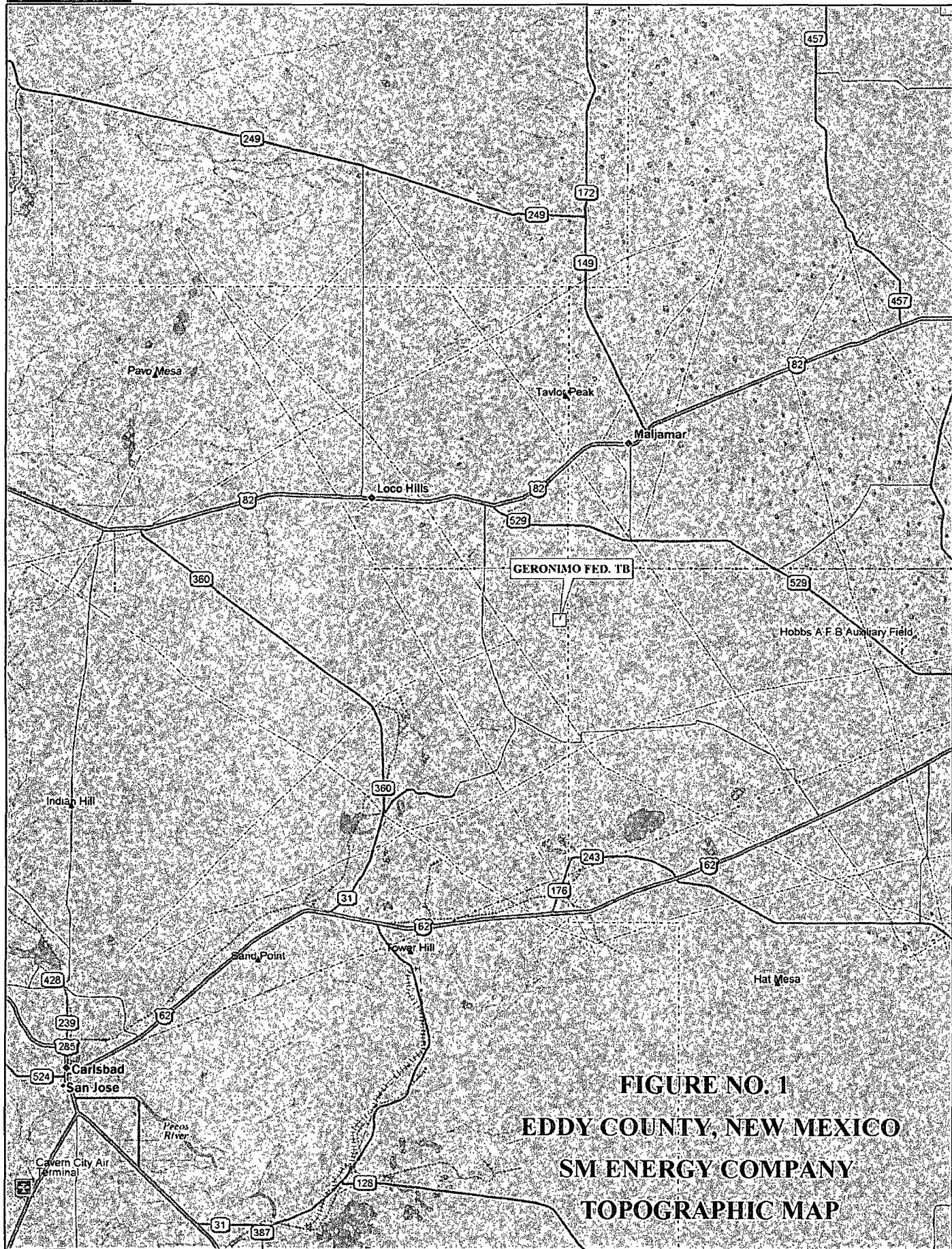


FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
SM ENERGY COMPANY
TOPOGRAPHIC MAP

Data use subject to license.

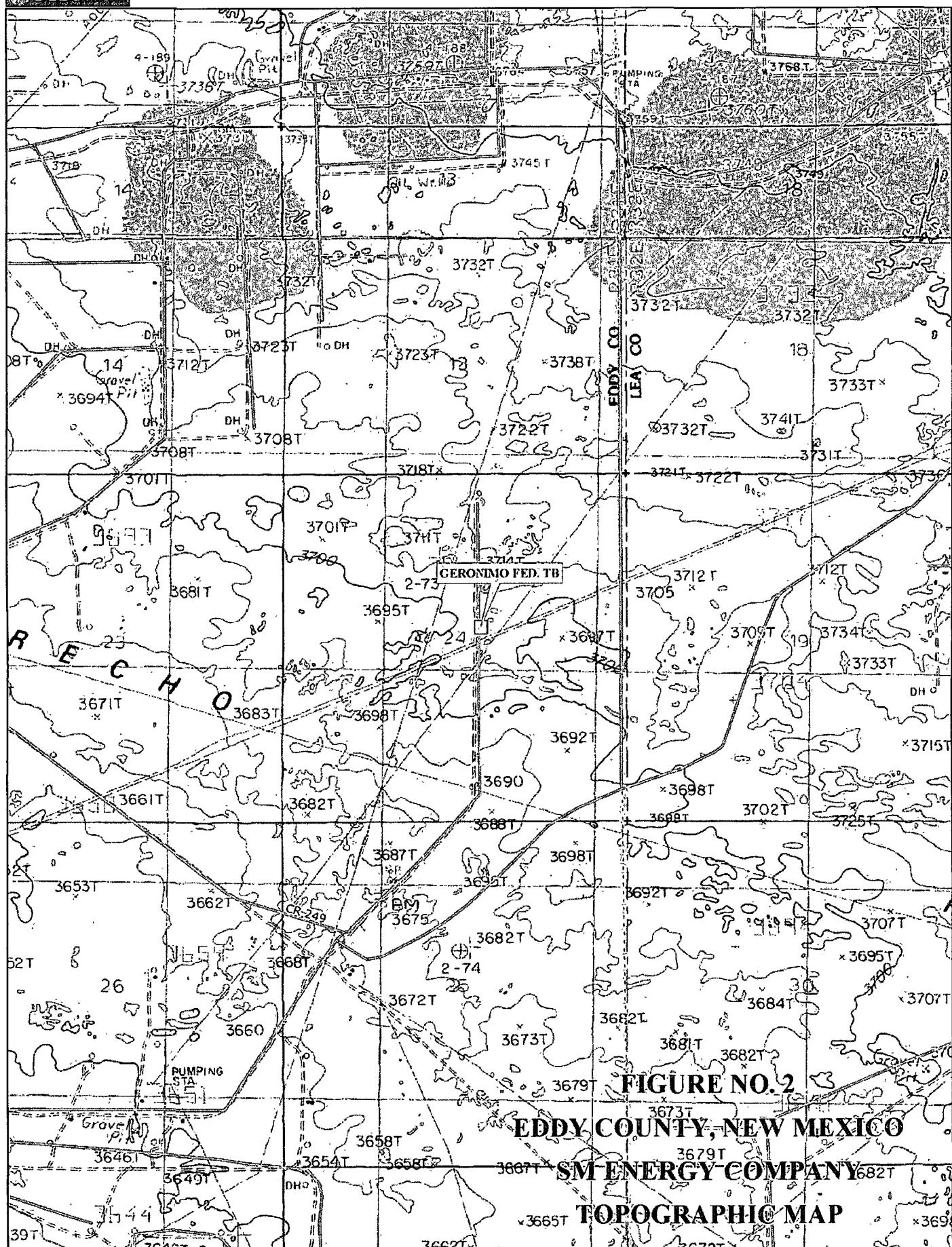
© DeLorme. Topo USA® 8.

www.delorme.com

Scale 1 : 400,000

TN
MN (7.8°E)

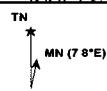
0 2 4 6 8 10 mi
0 3 6 9 12 15 km
1" = 6.31 mi Data Zoom 9-0

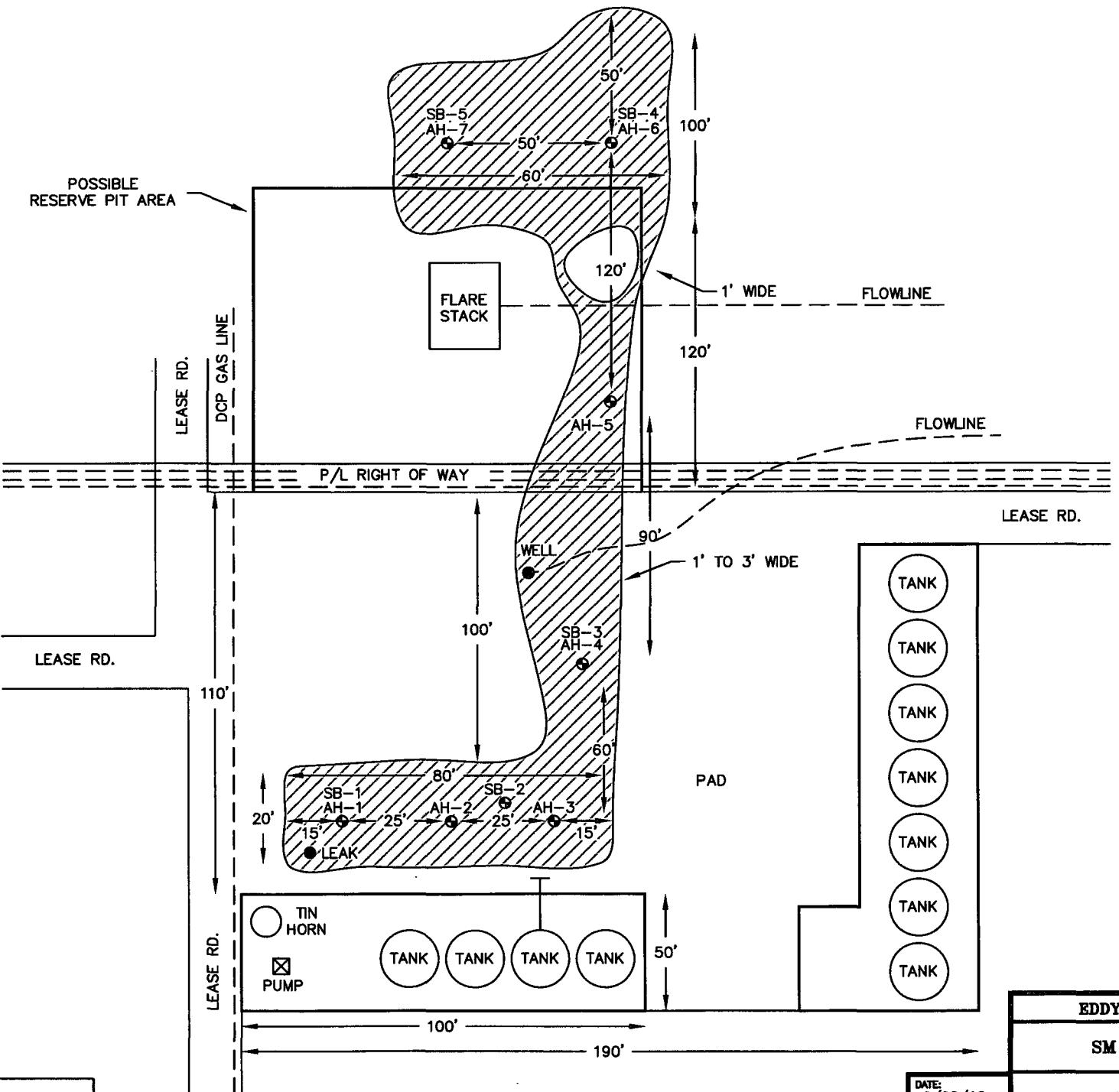


Data use subject to license.

© DeLorme. Topo USA® 8.

www.delorme.com

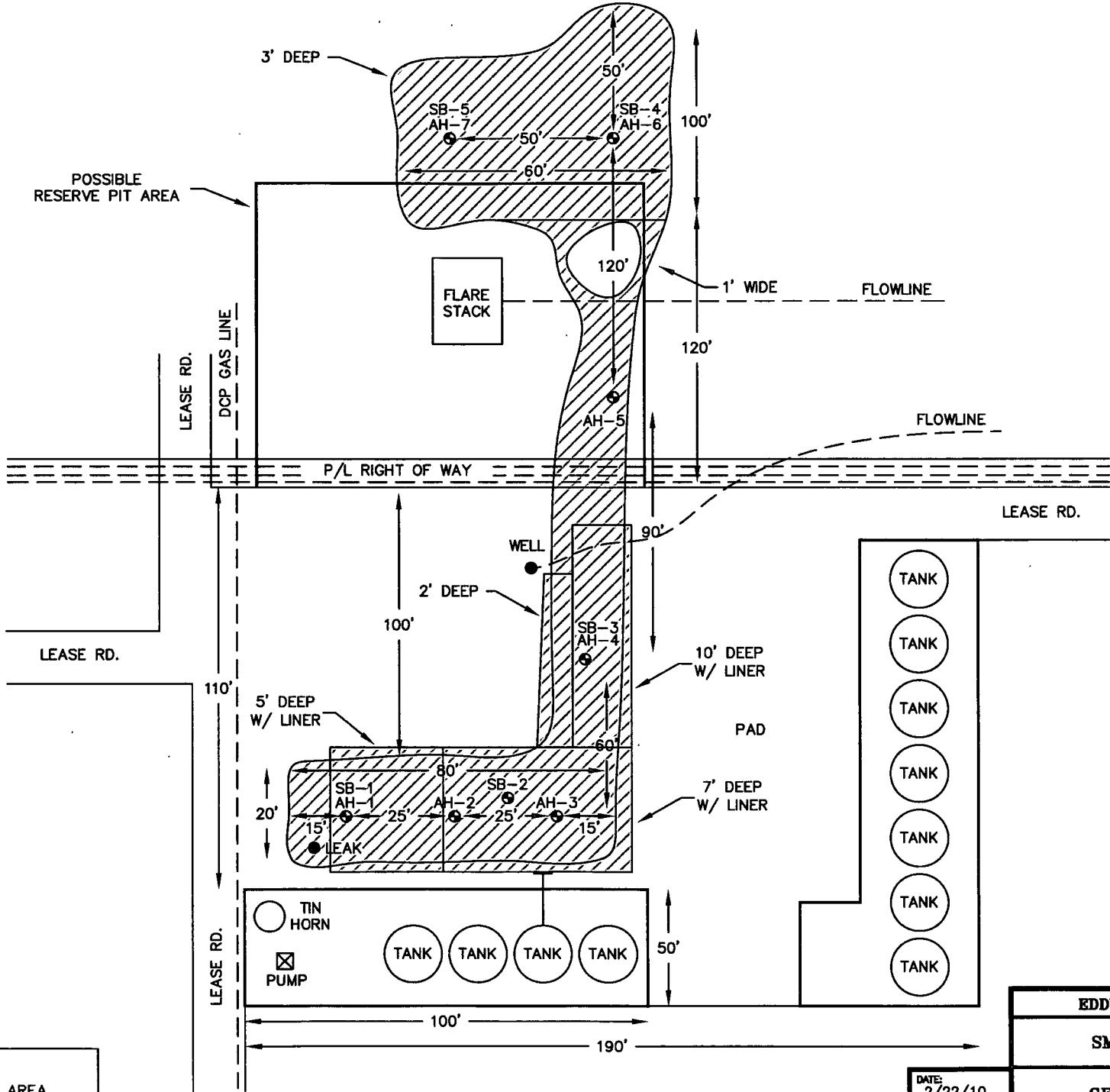




- SPILL AREA
- SAMPLE LOCATIONS
- SOIL BORING LOCATIONS

DATE:
2/22/10
DWN. BY:
JJ
FILE:
HST-MARY/400431

FIGURE NO. 3
EDDY COUNTY, NEW MEXICO
SM ENERGY COMPANY
GERONIMO FEDERAL TB
TETRA TECH, INC.
MIDLAND, TEXAS



NOT TO SCALE

- SPILL AREA
- EXCAVATION AREA
- SAMPLE LOCATIONS
- SOIL BORING LOCATIONS

DATE:
2/22/10
DWN. BY:
JJ
FILE:
H:\ST. MARY\640043

FIGURE NO. 4

EDDY COUNTY, NEW MEXICO

SM ENERGY COMPANY

GERONIMO FEDERAL TB

**TETRA TECH, INC.
MIDLAND, TEXAS**

TABLES

Table 1
St Mary Land & Exploration Co.
Geronimo Federal Injection Station
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)
			In-Situ	Removed	DRO	GRO	Total						
AH-1	2/18/2010	0-1'	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	3,630
		1-1.5'	X	-	-	-	-	-	-	-	-	-	1,650
		2-2.5'	X	-	-	-	-	-	-	-	-	-	1,360
		3-3.5'	X	-	-	-	-	-	-	-	-	-	817
		4-4.5'	X	-	-	-	-	-	-	-	-	-	2,390
		4.5-5'	X	-	-	-	-	-	-	-	-	-	2,580
SB-1	5/17/2010	3'	X	-	-	-	-	-	-	-	-	-	2,740
		5'	X	-	-	-	-	-	-	-	-	-	1,870
		7'	X	-	-	-	-	-	-	-	-	-	2,450
		10'	X	-	-	-	-	-	-	-	-	-	1,800
		15'	X	-	-	-	-	-	-	-	-	-	569
		20'	X	-	-	-	-	-	-	-	-	-	945
		25'	X	-	-	-	-	-	-	-	-	-	1,850
		30'	X	-	-	-	-	-	-	-	-	-	2,830
		40'	X	-	-	-	-	-	-	-	-	-	1,550
		50'	X	-	-	-	-	-	-	-	-	-	251
AH-2	2/18/2010	0-1'	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	7,320
		1-1.5'	X	-	-	-	-	-	-	-	-	-	1,370
		2-2.5'	X	-	-	-	-	-	-	-	-	-	2,290
		3-3.5'	X	-	-	-	-	-	-	-	-	-	2,240
AH-3	2/18/2010	0-1'	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	18,100
		1-1.5'	X	-	-	-	-	-	-	-	-	-	4,800
		2-2.5'	X	-	-	-	-	-	-	-	-	-	627
		3-3.5'	X	-	-	-	-	-	-	-	-	-	673
SB-2	5/17/2010	3'	X	-	-	-	-	-	-	-	-	-	2,920
		5'	X	-	-	-	-	-	-	-	-	-	9,800
		7'	X	-	-	-	-	-	-	-	-	-	6,320
		10'	X	-	-	-	-	-	-	-	-	-	3,600
		15'	X	-	-	-	-	-	-	-	-	-	2,860
		20'	X	-	-	-	-	-	-	-	-	-	2,240
		25'	X	-	-	-	-	-	-	-	-	-	1,130
		30'	X	-	-	-	-	-	-	-	-	-	853
		40'	X	-	-	-	-	-	-	-	-	-	768
		50'	X	-	-	-	-	-	-	-	-	-	<200
AH-4	2/18/2010	0-1'	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	4,740
		1-1.5'	X	-	-	-	-	-	-	-	-	-	1,160
		2-2.5'	X	-	-	-	-	-	-	-	-	-	1,730
		3-3.5'	X	-	-	-	-	-	-	-	-	-	2,280
SB-3	5/17/2010	3'	X	-	-	-	-	-	-	-	-	-	2,540
		5'	X	-	-	-	-	-	-	-	-	-	2,360
		7'	X	-	-	-	-	-	-	-	-	-	2,080
		10'	X	-	-	-	-	-	-	-	-	-	3,400
		15'	X	-	-	-	-	-	-	-	-	-	1,490
		20'	X	-	-	-	-	-	-	-	-	-	1,630
		25'	X	-	-	-	-	-	-	-	-	-	943
		30'	X	-	-	-	-	-	-	-	-	-	709
AH-5	2/18/2010	0-1	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	<200
		1-1.5	X	-	-	-	-	-	-	-	-	-	<200
		2-2.5	X	-	-	-	-	-	-	-	-	-	<200
AH-6	2/18/2010	0-1	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	5,900
		1-1.5	X	-	-	-	-	-	-	-	-	-	6,060
		1.5-2'	X	-	-	-	-	-	-	-	-	-	5,240
SB-4	5/17/2010	1'-3'BEB	X	-	-	-	-	-	-	-	-	-	554
		3'-3'BEB	X	-	-	-	-	-	-	-	-	-	2,730
		5' 3'BEB	X	-	-	-	-	-	-	-	-	-	<200
		7' 3'BEB	X	-	-	-	-	-	-	-	-	-	<200
		10' 3'BEB	X	-	-	-	-	-	-	-	-	-	345
AH-7	2/18/2010	0-1	X	-	<50.0	<1.00	<50.0	<0.01	<0.01	<0.01	<0.01	<0.01	<2,330
		1-1.5	X	-	-	-	-	-	-	-	-	-	2,020
		2-2.5	X	-	-	-	-	-	-	-	-	-	4,380
SB-5	5/17/2010	1' 3'BEB	X	-	-	-	-	-	-	-	-	-	2,630
		3' 3'BEB	X	-	-	-	-	-	-	-	-	-	3,540
		5' 3'BEB	X	-	-	-	-	-	-	-	-	-	287
		7' 3'BEB	X	-	-	-	-	-	-	-	-	-	211
			10' 3'BEB	X	-	-	-	-	-	-	-	-	<200

(-) Not Analyzed

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

Form C-141
 Revised October 10, 2003

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

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 Repo

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	Geronimo Federal Injection Station	Facility Type Injection Station

Surface Owner BLM	Mineral Owner BLM	Lease No.
-------------------	-------------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	24	18S	31E					Eddy

Latitude 32.73376

Longitude 103.82179

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 475	Volume Recovered 440
Source of Release changeover @ Triplex pump discharge line	Date and Hour of Occurrence 12/13/09	Date and Hour of Discovery 8: 00AM
Was Immediate Notice Given?	If YES, To Whom? Jim Amos - BLM & Mike Bratcher - NMOCD	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		
By Whom? Bill Hearne	Date and Hour 12/13/09 10:30 AM	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

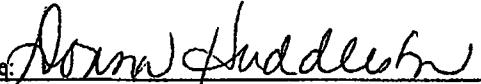
Fiberglass change over from 2 3/8" Centron fiberglass injection line and 2 3/8" steel IPC pipe. Picked up 440 bbl water and repair leak at changeover.

Describe Area Affected and Cleanup Action Taken.*

Spill area: (On location): 20' x 80' = 1600 sq. ft., 4' x 100' = 400 sq. ft. Spill Area (Off location): 6' x 200' = 1200 sq. ft., 40' x 120' = 7200 sq. ft.

Cleanup Action: Picked-up 440 bbls. produced water and hauled to disposal. Contacted Environmental Consulting firm to assess and remediate 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:		
Printed Name:	Donna Huddleston	
Title:	Production Tech	Approval Date: _____
E-mail Address:	dhuddleston@stmaryland.com	
Date:	12/14/2009	Phone: (432)688-1789

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: _____

Expiration Date: _____

Conditions of Approval:

Attached

APPENDIX B

Summary Report

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

Report Date: February 26, 2010

Work Order: 10022207



Project Location: Eddy County, NM
 Project Name: St. Mary/Geronimo TB
 Project Number: 114-6400431

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
223273	AH-1 0-1'	soil	2010-02-18	00:00	2010-02-19
223274	AH-1 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223275	AH-1 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223276	AH-1 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223277	AH-1 4-4.5'	soil	2010-02-18	00:00	2010-02-19
223278	AH-1 4.5-5'	soil	2010-02-18	00:00	2010-02-19
223279	AH-2 0-1'	soil	2010-02-18	00:00	2010-02-19
223280	AH-2 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223281	AH-2 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223282	AH-2 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223283	AH-3 0-1'	soil	2010-02-18	00:00	2010-02-19
223284	AH-3 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223285	AH-3 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223286	AH-3 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223287	AH-4 0-1'	soil	2010-02-18	00:00	2010-02-19
223288	AH-4 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223289	AH-4 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223290	AH-4 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223291	AH-5 0-1'	soil	2010-02-18	00:00	2010-02-19
223292	AH-5 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223293	AH-5 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223294	AH-6 0-1'	soil	2010-02-18	00:00	2010-02-19
223295	AH-6 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223296	AH-6 1.5-2'	soil	2010-02-18	00:00	2010-02-19
223297	AH-7 0-1'	soil	2010-02-18	00:00	2010-02-19
223298	AH-7 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223299	AH-7 2-2.5'	soil	2010-02-18	00:00	2010-02-19

Sample - Field Code	TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
223273 - AH-1 0-1'	<50.0	<1.00
223279 - AH-2 0-1'	<50.0	<1.00
223283 - AH-3 0-1'	<50.0	<1.00
223287 - AH-4 0-1'	<50.0	<1.00
223291 - AH-5 0-1'	<50.0	<1.00
223294 - AH-6 0-1'	<50.0	<1.00
223297 - AH-7 0-1'	<50.0	<1.00

Sample: 223273 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		3630	mg/Kg	4.00

Sample: 223274 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1650	mg/Kg	4.00

Sample: 223275 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	4.00

Sample: 223276 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		817	mg/Kg	4.00

Sample: 223277 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		2390	mg/Kg	4.00

Sample: 223278 - AH-1 4.5-5'

Param	Flag	Result	Units	RL
Chloride		2580	mg/Kg	4.00

Sample: 223279 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		7320	mg/Kg	4.00

Sample: 223280 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1370	mg/Kg	4.00

Sample: 223281 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		2290	mg/Kg	4.00

Sample: 223282 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		2240	mg/Kg	4.00

Sample: 223283 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		18100	mg/Kg	4.00

Sample: 223284 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		4800	mg/Kg	4.00

Sample: 223285 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		627	mg/Kg	4.00

Sample: 223286 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		673	mg/Kg	4.00

Sample: 223287 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		4740	mg/Kg	4.00

Sample: 223288 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1160	mg/Kg	4.00

Sample: 223289 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1730	mg/Kg	4.00

Sample: 223290 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		2280	mg/Kg	4.00

Sample: 223291 - AH-5 0-1'

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

Sample: 223292 - AH-5 1-1.5'

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

Sample: 223293 - AH-5 2-2.5'

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

Sample: 223294 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		5900	mg/Kg	4.00

Sample: 223295 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		6060	mg/Kg	4.00

Sample: 223296 - AH-6 1.5-2'

Param	Flag	Result	Units	RL
Chloride		5240	mg/Kg	4.00

Sample: 223297 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		2330	mg/Kg	4.00

Sample: 223298 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		2020	mg/Kg	4.00

Sample: 223299 - AH-7 2-2.5'

Param	Flag	Result	Units	RL
Chloride		4380	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9: Lubbock, Texas 79424 806•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
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 26, 2010

Work Order: 10022207



Project Location: Eddy County, NM
Project Name: St. Mary/Geronimo TB
Project Number: 114-6400431

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
223273	AH-1 0-1'	soil	2010-02-18	00:00	2010-02-19
223274	AH-1 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223275	AH-1 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223276	AH-1 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223277	AH-1 4-4.5'	soil	2010-02-18	00:00	2010-02-19
223278	AH-1 4.5-5'	soil	2010-02-18	00:00	2010-02-19
223279	AH-2 0-1'	soil	2010-02-18	00:00	2010-02-19
223280	AH-2 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223281	AH-2 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223282	AH-2 3-3.5'	soil	2010-02-18	00:00	2010-02-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
223283	AH-3 0-1'	soil	2010-02-18	00:00	2010-02-19
223284	AH-3 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223285	AH-3 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223286	AH-3 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223287	AH-4 0-1'	soil	2010-02-18	00:00	2010-02-19
223288	AH-4 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223289	AH-4 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223290	AH-4 3-3.5'	soil	2010-02-18	00:00	2010-02-19
223291	AH-5 0-1'	soil	2010-02-18	00:00	2010-02-19
223292	AH-5 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223293	AH-5 2-2.5'	soil	2010-02-18	00:00	2010-02-19
223294	AH-6 0-1'	soil	2010-02-18	00:00	2010-02-19
223295	AH-6 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223296	AH-6 1.5-2'	soil	2010-02-18	00:00	2010-02-19
223297	AH-7 0-1'	soil	2010-02-18	00:00	2010-02-19
223298	AH-7 1-1.5'	soil	2010-02-18	00:00	2010-02-19
223299	AH-7 2-2.5'	soil	2010-02-18	00:00	2010-02-19

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

This report consists of a total of 24 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 St. Mary/Geronimo TB were received by TraceAnalysis, Inc. on 2010-02-19 and assigned to work order 10022207. Samples for work order 10022207 were received intact at a temperature of 6.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	57955	2010-02-23 at 08:44	67760	2010-02-23 at 12:42
Chloride (Titration)	SM 4500-Cl B	57956	2010-02-23 at 08:44	67762	2010-02-23 at 12:43
Chloride (Titration)	SM 4500-Cl B	57957	2010-02-23 at 08:45	67763	2010-02-23 at 12:44
Chloride (Titration)	SM 4500-Cl B	58020	2010-02-25 at 09:40	67827	2010-02-25 at 11:40
TPH DRO - NEW	Mod. 8015B	57953	2010-02-22 at 10:28	67741	2010-02-22 at 10:28
TPH GRO	S 8015B	58010	2010-02-24 at 16:30	67816	2010-02-25 at 04:52

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 10022207 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 223273 - AH-1 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		3630	mg/Kg	100	4.00

Sample: 223273 - AH-1 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

Parameter	Flag	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	1	134	mg/Kg	1	100	134	70 - 130

Sample: 223273 - AH-1 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	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)		2.39	mg/Kg	1	2.00	120	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.24	mg/Kg	1	2.00	112	61.7 - 131.1

¹High surrogate recovery. Sample non-detect, result bias high.

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 5 of 24
Eddy County, NM

Sample: 223274 - AH-1 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1650	mg/Kg	50	4.00

Sample: 223275 - AH-1 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Sample: 223276 - AH-1 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		817	mg/Kg	50	4.00

Sample: 223277 - AH-1 4-4.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2390	mg/Kg	100	4.00

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 6 of 24
Eddy County, NM

Sample: 223278 - AH-1 4.5-5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2580	mg/Kg	100	4.00

Sample: 223279 - AH-2 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		7320	mg/Kg	100	4.00

Sample: 223279 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

Parameter	Flag	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		117	mg/Kg	1	100	117	70 - 130

Sample: 223279 - AH-2 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 7 of 24
Eddy County, NM

Parameter	Flag	Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery
Trifluorotoluene (TFT)		1.74	mg/Kg	1	87
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	84

Sample: 223280 - AH-2 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1370	mg/Kg	50	4.00

Sample: 223281 - AH-2 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Sample: 223282 - AH-2 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67760
Prep Batch: 57955

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2240	mg/Kg	100	4.00

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 8 of 24
Eddy County, NM

Sample: 223283 - AH-3 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		18100	mg/Kg	100	4.00

Sample: 223283 - AH-3 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

Parameter	Flag	Result	Units	Dilution	RL	
DRO		<50.0	mg/Kg	1	50.0	
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		116	mg/Kg	100	116	70 - 130

Sample: 223283 - AH-3 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	Result	Units	Dilution	RL	
GRO		<1.00	mg/Kg	1	1.00	
Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84
						65.3 - 145
						61.7 - 131.1

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 9 of 24
Eddy County, NM

Sample: 223284 - AH-3 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		4800	mg/Kg	100	4.00

Sample: 223285 - AH-3 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		627	mg/Kg	50	4.00

Sample: 223286 - AH-3 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		673	mg/Kg	50	4.00

Sample: 223287 - AH-4 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		4740	mg/Kg	100	4.00

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 10 of 24
Eddy County, NM

Sample: 223287 - AH-4 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

Parameter	Flag	Result	Units	Dilution	RL			
DRO		<50.0	mg/Kg	1	50.0			
Surrogate	Flag	Result	Units	Dilution	Spike	Percent	Recovery	Recovery
n-Tricosane		130	mg/Kg	1	100	130	70 - 130	Limits

Sample: 223287 - AH-4 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	Result	Units	Dilution	RL			
GRO		<1.00	mg/Kg	1	1.00			
Surrogate	Flag	Result	Units	Dilution	Spike	Percent	Recovery	Recovery
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	65.3 - 145	Limits
4-Bromofluorobenzene (4-BFB)		1.95	mg/Kg	1	2.00	98	61.7 - 131.1	

Sample: 223288 - AH-4 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1160	mg/Kg	50	4.00

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 11 of 24
Eddy County, NM

Sample: 223289 - AH-4 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Sample: 223290 - AH-4 3-3.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2280	mg/Kg	100	4.00

Sample: 223291 - AH-5 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Sample: 223291 - AH-5 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 12 of 24
Eddy County, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		117	mg/Kg	1	100	117	70 - 130

Sample: 223291 - AH-5 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	Result	RL		Dilution	Percent Recovery	Recovery Limits
			Units	mg/Kg			
GRO		<1.00			1		1.00
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.36	mg/Kg	1	2.00	118	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.24	mg/Kg	1	2.00	112	61.7 - 131.1

Sample: 223292 - AH-5 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67762
Prep Batch: 57956

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Sample: 223293 - AH-5 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 13 of 24
Eddy County, NM

Sample: 223294 - AH-6 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67827
Prep Batch: 58020

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		5900	mg/Kg	100	4.00

Sample: 223294 - AH-6 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

Parameter	Flag	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	70 - 130

Sample: 223294 - AH-6 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	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)		2.53	mg/Kg	1	2.00	126	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.40	mg/Kg	1	2.00	120	61.7 - 131.1

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 14 of 24
Eddy County, NM

Sample: 223295 - AH-6 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		6060	mg/Kg	100	4.00

Sample: 223296 - AH-6 1.5-2'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		5240	mg/Kg	100	4.00

Sample: 223297 - AH-7 0-1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2330	mg/Kg	100	4.00

Sample: 223297 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 67741
Prep Batch: 57953

Analytical Method: Mod. 8015B
Date Analyzed: 2010-02-22
Sample Preparation: 2010-02-22

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

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 15 of 24
Eddy County, NM

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

Sample: 223297 - AH-7 0-1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 67816
Prep Batch: 58010

Analytical Method: S 8015B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-24

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

Parameter	Flag	Result	RL		Dilution	Percent Recovery	Recovery Limits
			Units	mg/Kg			
GRO		<1.00			1		1.00
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.40	mg/Kg	1	2.00	120	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.22	mg/Kg	1	2.00	111	61.7 - 131.1

Sample: 223298 - AH-7 1-1.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	RL		Dilution	Percent Recovery	Recovery Limits
			Units	mg/Kg			
Chloride		2020			100		4.00

Sample: 223299 - AH-7 2-2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 67763
Prep Batch: 57957

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-02-23
Sample Preparation: 2010-02-23

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

Parameter	Flag	Result	RL		Dilution	Percent Recovery	Recovery Limits
			Units	mg/Kg			
Chloride		4380			100		4.00

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 16 of 24
Eddy County, NM

Method Blank (1) QC Batch: 67741

QC Batch: 67741 Date Analyzed: 2010-02-22 Analyzed By: kg
Prep Batch: 57953 QC Preparation: 2010-02-22 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	70 - 130

Method Blank (1) QC Batch: 67760

QC Batch: 67760 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57955 QC Preparation: 2010-02-23 Prepared By: AR

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

Method Blank (1) QC Batch: 67762

QC Batch: 67762 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57956 QC Preparation: 2010-02-23 Prepared By: AR

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

Method Blank (1) QC Batch: 67763

QC Batch: 67763 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57957 QC Preparation: 2010-02-23 Prepared By: AR

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 17 of 24
Eddy County, NM

Method Blank (1) QC Batch: 67816

QC Batch: 67816 Date Analyzed: 2010-02-25 Analyzed By: AG
Prep Batch: 58010 QC Preparation: 2010-02-24 Prepared By: AG

Parameter	Flag	MDL		Units	RL
		Result	<0.396		
GRO				mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike	Percent Recovery	Recovery Limits
					Amount		
Trifluorotoluene (TFT)		2.39	mg/Kg	1	2.00	120	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	62 - 120.5

Method Blank (1) QC Batch: 67827

QC Batch: 67827 Date Analyzed: 2010-02-25 Analyzed By: AR
Prep Batch: 58020 QC Preparation: 2010-02-25 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 67741 Date Analyzed: 2010-02-22 Analyzed By: kg
Prep Batch: 57953 QC Preparation: 2010-02-22 Prepared By: kg

Param	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec.
	Result	Units					Limit
DRO	265	mg/Kg	1	250	<5.86	106	57.4 - 133.4

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

Param	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.	RPD	RPD Limit
	Result	Units					Limit		
DRO	285	mg/Kg	1	250	<5.86	114	57.4 - 133.4	7	20

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

Surrogate	LCS		LCSD		Dil.	Spike Amount	LCS Rec.	LCSD Rec.		Rec. Limit
	Result	Units	Result	Units				Rec.	Limit	
n-Tricosane	120	126	mg/Kg	1	100	120	126	120	70 - 130	

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 18 of 24
Eddy County, NM

Laboratory Control Spike (LCS-1)

QC Batch: 67760 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57955 QC Preparation: 2010-02-23 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Limit
Chloride	98.5	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Limit	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: 67762 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57956 QC Preparation: 2010-02-23 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	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.	Limit	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: 67763 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57957 QC Preparation: 2010-02-23 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Limit
Chloride	99.3	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.	Limit	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.

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 19 of 24
Eddy County, NM

Laboratory Control Spike (LCS-1)

QC Batch: 67816 Date Analyzed: 2010-02-25 Analyzed By: AG
Prep Batch: 58010 QC Preparation: 2010-02-24 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.9	mg/Kg	1	20.0	<0.396	80	52.5 - 114.3

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.	RPD	RPD Limit
GRO	16.5	mg/Kg	1	20.0	<0.396	82	52.5 - 114.3	4

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)	2.15	2.19	mg/Kg	1	2.00	108	110	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	2.05	2.07	mg/Kg	1	2.00	102	104	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: 67827 Date Analyzed: 2010-02-25 Analyzed By: AR
Prep Batch: 58020 QC Preparation: 2010-02-25 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.3	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.	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115	2

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

Matrix Spike (MS-1) Spiked Sample: 223273

QC Batch: 67741 Date Analyzed: 2010-02-22 Analyzed By: kg
Prep Batch: 57953 QC Preparation: 2010-02-22 Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	320	mg/Kg	1	250	<5.86	128	35.2 - 167.1

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 20 of 24
Eddy County, NM

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Limit	RPD RPD	RPD Limit
DRO	344	mg/Kg	1	250	<5.86	138	35.2 - 167.1	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	121	126	mg/Kg	1	100	121	126	70 - 130

Matrix Spike (MS-1) Spiked Sample: 223282

QC Batch: 67760 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57955 QC Preparation: 2010-02-23 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Chloride	11500	mg/Kg	100	10000	2240	93	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	RPD Limit
Chloride	11600	mg/Kg	100	10000	2240	94	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: 223292

QC Batch: 67762 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57956 QC Preparation: 2010-02-23 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. 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	RPD Limit
Chloride	10200	mg/Kg	100	10000	<218	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: 223299

QC Batch: 67763 Date Analyzed: 2010-02-23 Analyzed By: AR
Prep Batch: 57957 QC Preparation: 2010-02-23 Prepared By: AR

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 21 of 24
Eddy County, NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	14400	mg/Kg	100	10000	4380	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	14500	mg/Kg	100	10000	4380	101	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: 223297

QC Batch: 67816 Date Analyzed: 2010-02-25 Analyzed By: AG
Prep Batch: 58010 QC Preparation: 2010-02-24 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.0	mg/Kg	1	20.0	<0.396	80	10 - 198.3

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
GRO	17.0	mg/Kg	1	20.0	<0.396	85	10 - 198.3	6	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.	Rec. Limit
Trifluorotoluene (TFT)	2.30	2.00	mg/Kg	1	2	115	100	65.5 - 143	
4-Bromofluorobenzene (4-BFB)	2.27	1.97	mg/Kg	1	2	114	98	58.6 - 140	

Matrix Spike (MS-1) Spiked Sample: 223591

QC Batch: 67827 Date Analyzed: 2010-02-25 Analyzed By: AR
Prep Batch: 58020 QC Preparation: 2010-02-25 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11300	mg/Kg	100	10000	1450	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11400	mg/Kg	100	10000	1450	100	85 - 115	1	20

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

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 22 of 24
Eddy County, NM

Standard (CCV-1)

QC Batch: 67741			Date Analyzed: 2010-02-22			Analyzed By: kg	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	279	112	80 - 120	2010-02-22

Standard (CCV-2)

QC Batch: 67741			Date Analyzed: 2010-02-22			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	2010-02-22

Standard (CCV-3)

QC Batch: 67741			Date Analyzed: 2010-02-22			Analyzed By: kg	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	258	103	80 - 120	2010-02-22

Standard (ICV-1)

QC Batch: 67760			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-02-23

Standard (CCV-1)

QC Batch: 67760			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2010-02-23

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 23 of 24
Eddy County, NM

Standard (ICV-1)

QC Batch: 67762			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-02-23

Standard (CCV-1)

QC Batch: 67762			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2010-02-23

Standard (ICV-1)

QC Batch: 67763			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.0	99	85 - 115	2010-02-23

Standard (CCV-1)

QC Batch: 67763			Date Analyzed: 2010-02-23			Analyzed By: AR	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-02-23

Standard (CCV-1)

QC Batch: 67816			Date Analyzed: 2010-02-25			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	0.933	93	80 - 120	2010-02-25

Report Date: February 26, 2010
114-6400431

Work Order: 10022207
St. Mary/Geronimo TB

Page Number: 24 of 24
Eddy County, NM

Standard (CCV-2)

QC Batch: 67816 Date Analyzed: 2010-02-25 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	1.08	108	80 - 120	2010-02-25

Standard (ICV-1)

QC Batch: 67827 Date Analyzed: 2010-02-25 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-02-25

Standard (CCV-1)

QC Batch: 67827 Date Analyzed: 2010-02-25 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2010-02-25

Order #: 1002200+

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: 3

ANALYSIS REQUEST
(Circle or Specify Method No.)CLIENT NAME:
St. Marys

SITE MANAGER:

Tito Tavares

PROJECT NO.:

114-C6400431

PROJECT NAME:

*St. Marys / Screening
Edoly Co., N.Y.*

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP/ GRAB	SAMPLE IDENTIFICATION						NUMBER OF CONTAINERS	PRESERVATIVE METHOD														
					HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD TX1005 (Ext. to C35)			PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCl	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
273	2/18		S	X	AH-1	0-1'			X	X																
274					AH-1	1-1.5'																				
275					AH-1	2'-2.5'																				
276					AH-1	3'-3.5'																				
277					AH-1	— 0' = 4'-4.5'																				
278					AH-1	4.5'-5'																				
279					AH-2	0-1'											X									
280					AH-2	1-1.5'																				
281					AH-2	2'-2.5'																				
282	✓		Y	✓	AH-3	3'-3.5'	✓	✓	✓	✓	✓															

RELINQUISHED BY: (Signature)

Tito Tavares

Date: 2/15/10

Time:

RECEIVED BY: (Signature)

[Signature]

Date: 2/19/10

Time: 16:14

SAMPLED BY: (Print & Initial)

Robert Jacobs Jr.

Date: 2/15/10

Time: 13:30

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

AIRBILL #:

HAND DELIVERED

BUS

UPS

OTHER:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

TETRA TECH CONTACT PERSON:

Tito Tavares

Results by:

RECEIVING LABORATORY: *TTC*

RECEIVED BY: (Signature)

RUSH Charges
Authorized:

Yes

No

ADDRESS:

CITY: *Midland* STATE: *TX*CONTACT: *Robert Jacobs*

ZIP:

PHONE:

DATE:

TIME:

16:00

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

60°C INTACT

If TPH exceed 1000 ppm do not sample.

19/169

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

C:\user\T.Wadsworth

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: 3

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>St. Marys</i>			SITE MANAGER: <i>Eric Tavares</i>																																
PROJECT NO.: <i>114-6400431</i>			PROJECT NAME: <i>St. Marys/ Lascenio Eddy Co, NM</i>																																
LAB I.D. NUMBER	DATE <i>2010</i>	TIME <i>2-18</i>	MATRIX <i>S</i>	COMP. <i>G</i>	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	RCR 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)	Main Anions/Cations, pH, TDS						
223283	2-18			X	AH-3	0-1'		1		X		X		X					X																
284					AH-3	1-1.5'																													
285					AH-3	2-2.5'																													
286					AH-3	3-3.5'																													
287					AH-4	0-1'													X																
288					AH-4	1-1.5'																													
289					AH-4	2-2.5'																													
290					AH-4	3-3.5'																													
291					AH-5	0-1'												X																	
292	✓		✓	✓	AH-5	1-1.5'		✓		✓										✓															
RELINQUISHED BY: (Signature) <i>Robert L. Cobb, Jr.</i>						Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>	RECEIVED BY: (Signature) <i>Eric Tavares</i>	Date: <i>2-19-10</i>							
RELINQUISHED BY: (Signature)						Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:							
RELINQUISHED BY: (Signature)						Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:							
RECEIVING LABORATORY: <i>Tetra</i>						RECEIVED BY: (Signature)																													
ADDRESS: <i>Midland, Texas</i>						DATE: <i>2-19-10</i>						TIME: <i>10:14</i>						SAMPLE SHIPPED BY: (Circle)						AIRBILL #:											
CITY: <i>Midland</i> STATE: <i>TX</i>						PHONE: <i>325-652-1000</i>						TIME: <i>10:14</i>						FEDEX <input checked="" type="checkbox"/> BUS <input type="checkbox"/>						OTHER: <input type="checkbox"/>											
CONTACT: <i>Leanda</i>						DATE: <i>2-19-10</i>						TIME: <i>10:14</i>						HAND DELIVERED <input checked="" type="checkbox"/> UPS <input type="checkbox"/>						TETRA TECH CONTACT PERSON: <i>Eric Tavares</i>						Results by: <input type="checkbox"/>					
SAMPLE CONDITION WHEN RECEIVED: <i>6.0°C intact</i>						REMARKS: <i>If TPH exceeds 1,000 mg/l/kg run deeper sample</i>																													

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

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax: (432) 682-3946

CLIENT NAME:

Si Pungs

PROJECT NO.:

114-6400431

PROJECT NAME:

Si Pungs / Laramarco TR
Solid Coal, Min

LAB I.D.
NUMBER

DATE
2010

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

293

-10

X

X

AH-5

2'-2.5'

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

ISTEX 8021B
(TPH Butyl Methyl)

PAH 8270

RCA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Sem Volatiles

RCI

GC/MS Vol. 8240/8250/824

GC/MS Semi. Vol. 8270/825

PCB's 8080/8088

Pest. 808/8088

Chloride

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

Gamma Spec.

Alpha Beta (A/B)

PLM (Asbestos)

Summary Report

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

Report Date: May 21, 2010

Work Order: 10051818



Project Location: Eddy County, NM
 Project Name: St. Mary/Geronimo TB
 Project Number: 114-6400431

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
232132	SB-1 3'	soil	2010-05-17	00:00	2010-05-18
232133	SB-1 5'	soil	2010-05-17	00:00	2010-05-18
232134	SB-1 7'	soil	2010-05-17	00:00	2010-05-18
232135	SB-1 10'	soil	2010-05-17	00:00	2010-05-18
232136	SB-1 15'	soil	2010-05-17	00:00	2010-05-18
232137	SB-1 20'	soil	2010-05-17	00:00	2010-05-18
232142	SB-2 3'	soil	2010-05-17	00:00	2010-05-18
232143	SB-2 5'	soil	2010-05-17	00:00	2010-05-18
232144	SB-2 7'	soil	2010-05-17	00:00	2010-05-18
232145	SB-2 10'	soil	2010-05-17	00:00	2010-05-18
232146	SB-2 15'	soil	2010-05-17	00:00	2010-05-18
232147	SB-2 20'	soil	2010-05-17	00:00	2010-05-18
232148	SB-2 25'	soil	2010-05-17	00:00	2010-05-18
232149	SB-2 30'	soil	2010-05-17	00:00	2010-05-18
232150	SB-2 40'	soil	2010-05-17	00:00	2010-05-18
232151	SB-2 50'	soil	2010-05-17	00:00	2010-05-18
232152	SB-3 3'	soil	2010-05-17	00:00	2010-05-18
232153	SB-3 5'	soil	2010-05-17	00:00	2010-05-18
232154	SB-3 7'	soil	2010-05-17	00:00	2010-05-18
232155	SB-3 10'	soil	2010-05-17	00:00	2010-05-18
232156	SB-3 15'	soil	2010-05-17	00:00	2010-05-18
232157	SB-3 20'	soil	2010-05-17	00:00	2010-05-18
232158	SB-3 25'	soil	2010-05-17	00:00	2010-05-18
232159	SB-3 30'	soil	2010-05-17	00:00	2010-05-18
232160	SB-3 40'	soil	2010-05-17	00:00	2010-05-18
232161	SB-4 1' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232162	SB-4 3' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232163	SB-4 5' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232164	SB-4 7' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232165	SB-4 10' 3' BEB	soil	2010-05-17	00:00	2010-05-18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
232166	SB-4 15' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232167	SB-5 1' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232168	SB-5 3' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232169	SB-5 5' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232170	SB-5 7' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232171	SB-5 10' 3' BEB	soil	2010-05-17	00:00	2010-05-18

Sample: 232132 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		2740	mg/Kg	4.00

Sample: 232133 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		1870	mg/Kg	4.00

Sample: 232134 - SB-1 7'

Param	Flag	Result	Units	RL
Chloride		2450	mg/Kg	4.00

Sample: 232135 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		1800	mg/Kg	4.00

Sample: 232136 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		569	mg/Kg	4.00

Sample: 232137 - SB-1 20'

Param	Flag	Result	Units	RL
Chloride		945	mg/Kg	4.00

Sample: 232142 - SB-2 3'

Param	Flag	Result	Units	RL
Chloride		2920	mg/Kg	4.00

Sample: 232143 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		9800	mg/Kg	4.00

Sample: 232144 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		6320	mg/Kg	4.00

Sample: 232145 - SB-2 10'

Param	Flag	Result	Units	RL
Chloride		3600	mg/Kg	4.00

Sample: 232146 - SB-2 15'

Param	Flag	Result	Units	RL
Chloride		2860	mg/Kg	4.00

Sample: 232147 - SB-2 20'

Param	Flag	Result	Units	RL
Chloride		2240	mg/Kg	4.00

Sample: 232148 - SB-2 25'

Param	Flag	Result	Units	RL
Chloride		1130	mg/Kg	4.00

Sample: 232149 - SB-2 30'

Param	Flag	Result	Units	RL
Chloride		853	mg/Kg	4.00

Sample: 232150 - SB-2 40'

Param	Flag	Result	Units	RL
Chloride		768	mg/Kg	4.00

Sample: 232151 - SB-2 50'

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

Sample: 232152 - SB-3 3'

Param	Flag	Result	Units	RL
Chloride		2540	mg/Kg	4.00

Sample: 232153 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		2360	mg/Kg	4.00

Sample: 232154 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		2080	mg/Kg	4.00

Sample: 232155 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		3400	mg/Kg	4.00

Sample: 232156 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	4.00

Sample: 232157 - SB-3 20'

Param	Flag	Result	Units	RL
Chloride		1630	mg/Kg	4.00

Sample: 232158 - SB-3 25'

Param	Flag	Result	Units	RL
Chloride		943	mg/Kg	4.00

Sample: 232159 - SB-3 30'

Param	Flag	Result	Units	RL
Chloride		709	mg/Kg	4.00

Sample: 232160 - SB-3 40'

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

Sample: 232161 - SB-4 1' 3' BEB

Param	Flag	Result	Units	RL
Chloride		554	mg/Kg	4.00

Sample: 232162 - SB-4 3' 3' BEB

Param	Flag	Result	Units	RL
Chloride		2730	mg/Kg	4.00

Sample: 232163 - SB-4 5' 3' BEB

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

Sample: 232164 - SB-4 7' 3' BEB

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

Sample: 232165 - SB-4 10' 3' BEB

Param	Flag	Result	Units	RL
Chloride		345	mg/Kg	4.00

Sample: 232166 - SB-4 15' 3' BEB

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

Sample: 232167 - SB-5 1' 3' BEB

Param	Flag	Result	Units	RL
Chloride		2630	mg/Kg	4.00

Sample: 232168 - SB-5 3' 3' BEB

Param	Flag	Result	Units	RL
Chloride		3540	mg/Kg	4.00

Sample: 232169 - SB-5 5' 3' BEB

Param	Flag	Result	Units	RL
Chloride		287	mg/Kg	4.00

Sample: 232170 - SB-5 7' 3' BEB

Param	Flag	Result	Units	RL
Chloride		211	mg/Kg	4.00

Sample: 232171 - SB-5 10' 3' BEB

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

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

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: May 21, 2010

Work Order: 10051818



Project Location: Eddy County, NM
Project Name: St. Mary/Geronimo TB
Project Number: 114-6400431

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
232132	SB-1 3'	soil	2010-05-17	00:00	2010-05-18
232133	SB-1 5'	soil	2010-05-17	00:00	2010-05-18
232134	SB-1 7'	soil	2010-05-17	00:00	2010-05-18
232135	SB-1 10'	soil	2010-05-17	00:00	2010-05-18
232136	SB-1 15'	soil	2010-05-17	00:00	2010-05-18
232137	SB-1 20'	soil	2010-05-17	00:00	2010-05-18
232142	SB-2 3'	soil	2010-05-17	00:00	2010-05-18
232143	SB-2 5'	soil	2010-05-17	00:00	2010-05-18
232144	SB-2 7'	soil	2010-05-17	00:00	2010-05-18
232145	SB-2 10'	soil	2010-05-17	00:00	2010-05-18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
232146	SB-2 15'	soil	2010-05-17	00:00	2010-05-18
232147	SB-2 20'	soil	2010-05-17	00:00	2010-05-18
232148	SB-2 25'	soil	2010-05-17	00:00	2010-05-18
232149	SB-2 30'	soil	2010-05-17	00:00	2010-05-18
232150	SB-2 40'	soil	2010-05-17	00:00	2010-05-18
232151	SB-2 50'	soil	2010-05-17	00:00	2010-05-18
232152	SB-3 3'	soil	2010-05-17	00:00	2010-05-18
232153	SB-3 5'	soil	2010-05-17	00:00	2010-05-18
232154	SB-3 7'	soil	2010-05-17	00:00	2010-05-18
232155	SB-3 10'	soil	2010-05-17	00:00	2010-05-18
232156	SB-3 15'	soil	2010-05-17	00:00	2010-05-18
232157	SB-3 20'	soil	2010-05-17	00:00	2010-05-18
232158	SB-3 25'	soil	2010-05-17	00:00	2010-05-18
232159	SB-3 30'	soil	2010-05-17	00:00	2010-05-18
232160	SB-3 40'	soil	2010-05-17	00:00	2010-05-18
232161	SB-4 1' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232162	SB-4 3' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232163	SB-4 5' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232164	SB-4 7' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232165	SB-4 10' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232166	SB-4 15' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232167	SB-5 1' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232168	SB-5 3' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232169	SB-5 5' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232170	SB-5 7' 3' BEB	soil	2010-05-17	00:00	2010-05-18
232171	SB-5 10' 3' BEB	soil	2010-05-17	00:00	2010-05-18

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

This report consists of a total of 19 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 St. Mary/Geronimo TB were received by TraceAnalysis, Inc. on 2010-05-18 and assigned to work order 10051818. Samples for work order 10051818 were received intact at a temperature of 20.3 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	60079	2010-05-19 at 08:31	70229	2010-05-20 at 16:47
Chloride (Titration)	SM 4500-Cl B	60119	2010-05-20 at 08:43	70230	2010-05-20 at 16:48
Chloride (Titration)	SM 4500-Cl B	60120	2010-05-20 at 08:44	70232	2010-05-20 at 16:49
Chloride (Titration)	SM 4500-Cl B	60121	2010-05-20 at 08:45	70261	2010-05-21 at 11:12
Chloride (Titration)	SM 4500-Cl B	60122	2010-05-20 at 08:54	70262	2010-05-21 at 11:13

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 10051818 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: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 4 of 19
Eddy County, NM

Analytical Report

Sample: 232132 - SB-1 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-05-20	Analyzed By:	AR
QC Batch:	70229	Sample Preparation:	2010-05-20	Prepared By:	AR
Prep Batch:	60079				

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2740	mg/Kg	100	4.00

Sample: 232133 - SB-1 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-05-20	Analyzed By:	AR
QC Batch:	70229	Sample Preparation:	2010-05-20	Prepared By:	AR
Prep Batch:	60079				

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1870	mg/Kg	100	4.00

Sample: 232134 - SB-1 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-05-20	Analyzed By:	AR
QC Batch:	70229	Sample Preparation:	2010-05-20	Prepared By:	AR
Prep Batch:	60079				

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2450	mg/Kg	100	4.00

Sample: 232135 - SB-1 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-05-20	Analyzed By:	AR
QC Batch:	70229	Sample Preparation:	2010-05-20	Prepared By:	AR
Prep Batch:	60079				

continued ...

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 5 of 19
Eddy County, NM

sample 232135 continued ...

Parameter	Flag	Result	Units	Dilution	RL
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1800	mg/Kg	100	4.00

Sample: 232136 - SB-1 15'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		569	mg/Kg	50	4.00

Sample: 232137 - SB-1 20'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		945	mg/Kg	50	4.00

Sample: 232142 - SB-2 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2920	mg/Kg	100	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 6 of 19
Eddy County, NM

Sample: 232143 - SB-2 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		9800	mg/Kg	100	4.00

Sample: 232144 - SB-2 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		6320	mg/Kg	100	4.00

Sample: 232145 - SB-2 10'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		3600	mg/Kg	100	4.00

Sample: 232146 - SB-2 15'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2860	mg/Kg	100	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 7 of 19
Eddy County, NM

Sample: 232147 - SB-2 20'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2240	mg/Kg	100	4.00

Sample: 232148 - SB-2 25'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1130	mg/Kg	50	4.00

Sample: 232149 - SB-2 30'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70230
Prep Batch: 60119

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		853	mg/Kg	50	4.00

Sample: 232150 - SB-2 40'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		768	mg/Kg	50	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 8 of 19
Eddy County, NM

Sample: 232151 - SB-2 50'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

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

Sample: 232152 - SB-3 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2540	mg/Kg	100	4.00

Sample: 232153 - SB-3 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2360	mg/Kg	100	4.00

Sample: 232154 - SB-3 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2080	mg/Kg	100	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 9 of 19
Eddy County, NM

Sample: 232155 - SB-3 10'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		3400	mg/Kg	100	4.00

Sample: 232156 - SB-3 15'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1490	mg/Kg	50	4.00

Sample: 232157 - SB-3 20'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1630	mg/Kg	50	4.00

Sample: 232158 - SB-3 25'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		943	mg/Kg	50	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 10 of 19
Eddy County, NM

Sample: 232159 - SB-3 30'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70232
Prep Batch: 60120

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-20
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		709	mg/Kg	50	4.00

Sample: 232160 - SB-3 40'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Sample: 232161 - SB-4 1' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		554	mg/Kg	50	4.00

Sample: 232162 - SB-4 3' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2730	mg/Kg	100	4.00

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 11 of 19
Eddy County, NM

Sample: 232163 - SB-4 5' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Sample: 232164 - SB-4 7' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Sample: 232165 - SB-4 10' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		345	mg/Kg	50	4.00

Sample: 232166 - SB-4 15' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 12 of 19
Eddy County, NM

Sample: 232167 - SB-5 1' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		2630	mg/Kg	100	4.00

Sample: 232168 - SB-5 3' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		3540	mg/Kg	100	4.00

Sample: 232169 - SB-5 5' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70261
Prep Batch: 60121

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

Parameter	Flag	Result	Units	Dilution	RL
Chloride		287	mg/Kg	50	4.00

Sample: 232170 - SB-5 7' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70262
Prep Batch: 60122

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 13 of 19
Eddy County, NM

Sample: 232171 - SB-5 10' 3' BEB

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 70262
Prep Batch: 60122

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-05-21
Sample Preparation: 2010-05-20

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

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

Method Blank (1) QC Batch: 70229

QC Batch: 70229
Prep Batch: 60079

Date Analyzed: 2010-05-20
QC Preparation: 2010-05-19

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 70230

QC Batch: 70230
Prep Batch: 60119

Date Analyzed: 2010-05-20
QC Preparation: 2010-05-20

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 70232

QC Batch: 70232
Prep Batch: 60120

Date Analyzed: 2010-05-20
QC Preparation: 2010-05-20

Analyzed By: AR
Prepared By: AR

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

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 14 of 19
Eddy County, NM

Method Blank (1) QC Batch: 70261

QC Batch: 70261 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60121 QC Preparation: 2010-05-20 Prepared By: AR

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

Method Blank (1) QC Batch: 70262

QC Batch: 70262 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60122 QC Preparation: 2010-05-20 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 70229 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60079 QC Preparation: 2010-05-19 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.9	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.	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: 70230 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60119 QC Preparation: 2010-05-20 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.9	mg/Kg	1	100	<2.18	99	85 - 115

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 15 of 19
Eddy County, NM

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

Param	LCSD	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD RPD	RPD Limit
	Result								
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 70232 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60120 QC Preparation: 2010-05-20 Prepared By: AR

Param	LCS	Units	Dil.	Spike	Matrix	Rec.	Rec. Limit
	Result			Amount	Result		
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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD RPD	RPD Limit
	Result	Units							
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 70261 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60121 QC Preparation: 2010-05-20 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. 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		Dil.	Spike Amount	Matrix Result	Rec.		RPD	RPD Limit
	Result	Units				Rec.	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: 70262 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60122 QC Preparation: 2010-05-20 Prepared By: AR

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 16 of 19
Eddy County, NM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Chloride	98.4	mg/Kg	1	100	<2.18	98	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD Limit	
Chloride	100	mg/Kg	1	100	<2.18	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: 232135

QC Batch: 70229 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60079 QC Preparation: 2010-05-19 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Chloride	11800	mg/Kg	100	10000	1800	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.	Rec. Limit	RPD Limit	
Chloride	12000	mg/Kg	100	10000	1800	102	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: 232149

QC Batch: 70230 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60119 QC Preparation: 2010-05-20 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Chloride	10900	mg/Kg	100	10000	853	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.	Rec. Limit	RPD Limit	
Chloride	11100	mg/Kg	100	10000	853	102	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: 232159

QC Batch: 70232 Date Analyzed: 2010-05-20 Analyzed By: AR
Prep Batch: 60120 QC Preparation: 2010-05-20 Prepared By: AR

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 17 of 19
Eddy County, NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec.	Limit
Chloride	11800	mg/Kg	100	10000	709	111	111	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.	RPD	RPD Limit
Chloride	12000	mg/Kg	100	10000	709	113	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: 232169

QC Batch: 70261 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60121 QC Preparation: 2010-05-20 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec.	Limit
Chloride	10400	mg/Kg	100	10000	287	101	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.	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	287	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: 232171

QC Batch: 70262 Date Analyzed: 2010-05-21 Analyzed By: AR
Prep Batch: 60122 QC Preparation: 2010-05-20 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec.	Limit
Chloride	9700	mg/Kg	100	10000	<218	96	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.	RPD	RPD Limit
Chloride	9880	mg/Kg	100	10000	<218	97	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: 70229 Date Analyzed: 2010-05-20 Analyzed By: AR

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 18 of 19
Eddy County, NM

Param	Flag	Units	ICVs	ICVs	ICVs	Percent	Date Analyzed
			True Conc.	Found Conc.	Percent Recovery	Recovery Limits	
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-05-20

Standard (CCV-1)

QC Batch: 70229 Date Analyzed: 2010-05-20 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-05-20

Standard (ICV-1)

QC Batch: 70230 Date Analyzed: 2010-05-20 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-05-20

Standard (CCV-1)

QC Batch: 70230 Date Analyzed: 2010-05-20 Analyzed By: AR

Param	Flag	Units	CCVs	CCVs	CCVs	Percent	Date Analyzed
			True Conc.	Found Conc.	Percent Recovery	Recovery Limits	
Chloride		mg/Kg	100	97.3	97	85 - 115	2010-05-20

Standard (ICV-1)

QC Batch: 70232 Date Analyzed: 2010-05-20 Analyzed By: AR

Param	Flag	Units	ICVs	ICVs	ICVs	Percent	Date
			True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
Chloride		mg/Kg	100	98.2	98	85 - 115	2010-05-20

Standard (CCV-1)

QC Batch: 70232 Date Analyzed: 2010-05-20 Analyzed By: AR

Report Date: May 21, 2010
114-6400431

Work Order: 10051818
St. Mary/Geronimo TB

Page Number: 19 of 19
Eddy County, NM

Param	Flag	Units	CCVs	CCVs	CCVs	Percent	Date
			True	Found	Percent	Recovery	Limits
Chloride		mg/Kg	100	102	102	85 - 115	2010-05-20

Standard (ICV-1)

QC Batch: 70261 Date Analyzed: 2010-05-21 Analyzed By: AR

Param	Flag	Units	ICVs	ICVs	ICVs	Percent	Date
			True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-05-21

Standard (CCV-1)

QC Batch: 70261 Date Analyzed: 2010-05-21 Analyzed By: AR

Param	Flag	Units	CCVs	CCVs	CCVs	Percent	Date
			True	Found	Percent	Recovery	
Chloride		mg/Kg	100	98.3	98	85 - 115	2010-05-21

Standard (ICV-1)

QC Batch: 70262 Date Analyzed: 2010-05-21 Analyzed By: AR

Param	Flag	Units	ICVs	ICVs	ICVs	Percent	Date
			True	Found	Percent	Recovery	Limits
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-05-21

Standard (CCV-1)

QC Batch: 70262 Date Analyzed: 2010-05-21 Analyzed By: AR

Param	Flag	Units	CCVs	CCVs	CCVs	Percent	Date
			True	Found	Percent	Recovery	
Chloride		mg/Kg	Conc.	Conc.	Recovery	Limits	Analyzed

Order : 10051818

Analysis Request of Chain of Custody Record

**TETRA TECH**

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

CLIENT NAME: St Mary SITE MANAGER: Ike Tavares

PROJECT NO.: 114-6400431 PROJECT NAME: St Mary | Geronimo Federal TB

LAB I.D. NUMBER DATE TIME MATRIX COMP. GRAB SAMPLE IDENTIFICATION

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS		PRESERVATIVE METHOD		
							FILTERED (Y/N)	HCL	HNO3	ICE	NONE
232132	5/17		S	X		SB-1 3'	-				
133						SB-1 5'	1				
134						SB-1 7'	1				
135						SB-1 10'	1				
136						SB-1 15'	1				
137						SB-1 20'	1				
138						SB-1 25'	1				
139						SB-1 30'	1				
140						SB-1 40'	1				
141						SB-1 50'	1				

RELINQUISHED BY: (Signature) SP/10/10 RECEIVED BY: (Signature) SP/10/10 SAMPLED BY: (Print & Initial) Kim Date: 5-17-10

Date: SP/10/10 Time: 13:00 Date: SP/10/10 Time: 13:00 Date: SP/10/10 Time: 13:00

RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____

Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____ OTHER: _____

RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) HAND DELIVERED UPS OTHER: _____

Date: _____ Time: _____ Date: _____ Time: _____ TETRA TECH CONTACT PERSON: _____ Results by: _____

RECEIVING LABORATORY: TETRA TECH RECEIVED BY: (Signature) _____ TETRA TECH CONTACT PERSON: _____ Results by: _____

ADDRESS: 1910 N. Big Spring St. STATE: TX ZIP: _____ DATE: _____ TIME: _____ RUSH Charges Authorized: _____

CITY: Midland PHONE: _____ CONTACT: _____ DATE: _____ TIME: _____ Yes No

SAMPLE CONDITION WHEN RECEIVED: 20.3°C intact REMARKS: [REDACTED] X All test Midland

PAGE: <u>1</u>	OF: <u>4</u>
ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEx 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)
PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles
TCLP Semi Volatiles	RCI
PCBs 8080/608	GC/MS Vol. 8240/8260/624
Pest. 808/608	GC/MS Semi. Vol. 8270/625
Chloride	PCBs 8080/608
Gamma Spec.	Pest. 808/608
Alpha Beta (Air)	Chloride
PLM (Asbestos)	Gamma Spec.
Major Anions/Cations, pH, TDS	Alpha Beta (Air)

Order # 10051818

Analysis Request of Chain of Custody Record



TETRATECH

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

CLIENT NAME: <i>St Mary</i>			SITE MANAGER: <i>Ike Tavares</i>									
PROJECT NO.: 114-6400431			PROJECT NAME: <i>St Mary Geronimo Federal TB Eddy Co NM</i>									
LAB I.D. NUMBER	DATE	TIME	MATRIX COMP. GRAB	SAMPLE IDENTIFICATION								
232142	5/17		S X	SB-2	3'							
143				SB-2	5'							
144				SB-2	7'							
145				SB-2	10'							
146				SB-2	15'							
147				SB-2	20'							
148				SB-2	35'							
149				SB-2	30'							
150				SB-2	40'							
151				SB-2	50'							
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)									
RECEIVING LABORATORY: <i>Tavel</i> ADDRESS: _____ CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: _____ CONTACT: _____ PHONE: _____			RECEIVED BY: (Signature) DATE: _____ TIME: _____									
SAMPLE CONDITION WHEN RECEIVED: <i>2013 c intact</i>			REMARKS:									
NUMBER OF CONTAINERS FILTERED (Y/N)						PRESERVATIVE METHOD						
						HCl	HNO3	ICE	NONE			
						BITEX 8021B				TPH	8015 MOD.	TX100
						PAH 8270				PAH 8270		
						RCRA Metals Ag As Ba Cd				GC/MS Vol. 8240/8250/624		
						TCLP Metals Ag As Ba Cd				GC/MS Semi. Vol. 8270/625		
						TCLP Volatiles				PCB's 8080/608		
						TCLP Semi Volatiles				Pest. 8080/608		
						RCI				Chloride		
						Gamma Spec.				X		
						Alpha Beta (Alt)				X		
						PLM (Asbestos)				X		
						Major Anions/Cations, pH				X		

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 #: 10051818

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: 3 OF: 4

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>St Mary</i>			SITE MANAGER: <i>Ike Tavaroz</i>			
PROJECT NO.: <i>114-6400431</i>		PROJECT NAME: <i>St Mary Geronimo Federal TB Eddy C NM</i>				
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	
232152	5/17		S	X	SB-3	3'
153					SB-3	5'
154					SB-3	7'
155					SB-3	10'
156					SB-3	15'
157					SB-3	20'
158					SB-3	25'
159					SB-3	30'
160					SB-3	40'
161					SB-4	3' BEB

NUMBER OF CONTAINERS	PRESERVATIVE METHOD					
	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	
1						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. 8240/8280/624
						GC/MS Semi. Vol. 8270/625
						PCBs 8080/608
						Pest. 808/608
						Chlorides
						Gamma Spec.
						Alpha Beta (Air)
						PLM (Asbestos)
						Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)	Date: 5/17/10	RECEIVED BY: (Signature)	Date: 5/17/10	SAMPLED BY: (Print & Initial)	Date: 5-17-10
	Time: 13:00		Time: 13:00	Kim	Time:
RELINQUISHED BY: (Signature)	Date: _____	RECEIVED BY: (Signature)	Date: _____	SAMPLE SHIPPED BY: (Circle)	AIRBILL #: _____
	Time: _____		Time: _____	FEDEX	BUS
RELINQUISHED BY: (Signature)	Date: _____	RECEIVED BY: (Signature)	Date: _____	HAND DELIVERED	UPS
	Time: _____		Time: _____	OTHER: _____	

RECEIVING LABORATORY: *Tetra* RECEIVED BY: (Signature)ADDRESS: *Midland* STATE: *TX* ZIP: _____

CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

SAMPLE CONDITION WHEN RECEIVED: *20.3°C intact* REMARKS: _____

TETRA TECH CONTACT PERSON:	Results by:
<i>Ike Tavaroz</i>	RUSH Charges Authorized: Yes No

Order # 10057818

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: 4

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>St Mary</i>			SITE MANAGER: <i>Ike Tavarrez</i>																											
PROJECT NO.: <i>114-6400431</i>			PROJECT NAME: <i>St Mary Geronimo Federal TB Eddy Co NM</i>																											
LAB I.D. NUMBER	DATE	TIME	MATRIX COMP:	GRAB	SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS	PRESERVATIVE METHOD			TESTS			TESTS			TESTS			TESTS									
					SB-4	3'	3' BEB			HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD.	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
232162	5/17		5	X	SB-4	3'	3' BEB	1					BTEX 8021B	TPH 8015 MOD.	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCBs 8080/608	Pest. 808/608	X	X	X	X	X
163			1		SB-4	5'	3' BEB																							
164			1		SB-4	7'	3' BEB																							
165			1		SB-4	10'	3' BEB																							
166			1		SB-4	15'	3' BEB																							
167			1		SB-5	1'	3' BEB																							
168			1		SB-5	3'	3' BEB																							
169			1		SB-5	5'	3' BEB																							
170			1		SB-5	7'	3' BEB																							
171			1		SB-5	10'	3' BEB																							
RELINQUISHED BY: (Signature) <i>[Signature]</i>					Date: 5/16/10	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 5/16/10	SAMPLED BY: (Print & Initial) <i>Kim</i>	Date: 5-17-10																					
RELINQUISHED BY: (Signature)					Time: 12:00	RECEIVED BY: (Signature)	Time: 13:00	Time:																						
RELINQUISHED BY: (Signature)					Date:	RECEIVED BY: (Signature)	Date:	SAMPLE SHIPPED BY: (Circle) FEDEX <input checked="" type="checkbox"/> BUS <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> UPS <input type="checkbox"/> OTHER: <input type="checkbox"/>	AIRBILL #: _____																					
RECEIVING LABORATORY: <i>Tetra Tech</i>					RECEIVED BY: (Signature)	Date:	TETRA TECH CONTACT PERSON: <i>Ike Tavarrez</i>	Results by: <i>Ike Tavarrez</i>																						
ADDRESS: <i>Midland</i>					DATE: _____	TIME: _____	RUSH Charges Authorized: Yes <input type="checkbox"/> No <input type="checkbox"/>																							
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: _____					PHONE: _____																									
CONTACT: <i>Midland</i>					SAMPLE CONDITION WHEN RECEIVED: <i>20.3°C intact</i>	REMARKS:																								

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